

# **The evaluation of new MRLs for mefentrifluconazole in or on various commodities**

## **UK Competent Authority Evaluation Report and Reasoned Opinion**

- Prepared under Article 8 of Assimilated Regulation 396/2005 and Data Requirements of Assimilated Regulation 283/2013
- Application Reference Number: COP 2024/00353

**June 2026**



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## Summary

In accordance with Article 6 of Assimilated Regulation 396/2005,<sup>1</sup> HSE received an application from BASF SE on 19 February 2024 to set import tolerances for the active substance mefentrifluconazole in or on pistachios, grapes, table olives, kaki/Japanese persimmons, lettuce, Roman rocket/rucola, baby leaf crops (including brassica species), spinach, herbs and edible flowers, chervil, chives, celery leaves, parsley, sage, rosemary, thyme, basil, laurel/bay leaves, tarragon, beans (without pods), cardoons, celery, Florence fennels, globe artichokes, rhubarbs, and olives for oil production. This was to accommodate authorisations in Brazil, the USA, and the EU.

The applicant submitted a dossier in accordance with the data requirements outlined in Assimilated Regulation 283/2013.

In accordance with Article 8 of Assimilated Regulation 396/2005, HSE evaluated the dossier in accordance with the uniform principles as outlined in Article 29(6) of Assimilated Regulation 1107/2009.<sup>2</sup>

Based on the assessment HSE prepared an Evaluation Report that included its Reasoned Opinion on the risk to consumers associated with amending the MRLs. HSE also took into account the data assessed for the approval of the active substance and previous Reasoned Opinions.

Sufficiently validated analytical methods for the determination of mefentrifluconazole in products of plant origin, in line with the residue definition for enforcement, are available to support the uses under consideration in the import tolerance application. Analytical methods for the determination of residues in products of animal origin were not required as no consideration of residues in livestock was made because the notified crops are not fed to animals.

Toxicological reference values for mefentrifluconazole were established for the approval of the active substance: an ADI of 0.035 mg/kg bw/day and an ARfD of 0.15 mg/kg bw.

Toxicological reference values for the triazole derivative metabolites (TDMs) were established for the TDM confirmatory data review: an ADI for triazole alanine (TA) of 0.3 mg/kg bw/d, for triazole acetic acid (TAA) of 1.0 mg/kg bw/d, for triazole lactic acid (TLA) of 0.3 mg/kg bw/d and for 1,2,4-triazole (1,2,4-T) of 0.023 mg/kg bw/d; and an ARfD for

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<sup>1</sup> [Assimilated Regulation No 396/2005 on maximum residue levels of pesticides in or on food and feed of plant and animal origin](#)

<sup>2</sup> [Assimilated Regulation No 1107/2009 concerning the placing of plant protection products on the market](#)

TA of 0.3 mg/kg bw, for TAA of 1.0 mg/kg bw, for TLA of 0.3 mg/kg bw and 1,2,4-T of 0.1 mg/kg bw.

Metabolism in primary crops was investigated following foliar spray in fruit (grape), cereals (wheat) and pulses and oilseeds (soyabean) for the approval of mefentrifluconazole (EFSA, 2018b). The crops included in this MRL application belong to the fruit, leafy crops and pulses and oilseeds groups and are, therefore, covered by the metabolism studies available.

The residue definition for risk assessment (RD-RA) in plants has been agreed as:

- 1) Mefentrifluconazole
- 2) TA and TLA
- 3) TAA
- 4) 1,2,4-T

The residue definition for enforcement (RD- Enf) in plants has been agreed as:

- Mefentrifluconazole

Six outdoor trials on pistachios, eight outdoor trials on grapes, eight outdoor trials on table olives, four outdoor trials on apples and four on pears (which can both be extrapolated to kaki/Japanese persimmons), eight outdoor trials on head lettuce, four outdoor trials on spinach, sixteen outdoor trials on beans (without pods), four outdoor trials on celery, four outdoor trials on globe artichokes, and eight outdoor trials on olives for oil production were submitted to support the notified uses. The trials are supported by validated analytical methods and storage stability data.

Hydrolysis of mefentrifluconazole and the TDMs under representative conditions of pasteurisation, baking, brewing, boiling and sterilisation was evaluated for the approval of the active substance (EFSA, 2018b) and the TDM Review (EFSA, 2018a). The hydrolysis data demonstrate that mefentrifluconazole and the TDMs are stable under standard conditions, therefore specific residue definitions for processed commodities are not required.

No consideration of rotational crops was made as the impact of residues in rotational crops on the import tolerances was not required as the exporting jurisdictions set MRLs without a contribution of residues arising in rotational crops.

No consideration of residues in products of animal origin was required as the crops are not used as animal feedstuffs.

For mefentrifluconazole, the highest UK NEDI was 42% of the ADI (toddler). The highest PRIMo IEDI was 38% of the ADI (NL toddler).

The highest UK NESTI for mefentrifluconazole was 37.2% of the ARfD (rhubarb, toddler). The highest PRIMo IESTI was 55% of the ARfD (lettuces, children).

The highest UK NEDI for 1,2,4-T was 74% (infant). The highest PRIMo IEDI for 1,2,4-T was 51% (NL toddler). The highest UK NESTI for 1,2,4-T was 0.1% of the ARfD (adults/pistachios). The highest PRIMo IESTI for 1,2,4-T was 0.5% (children/kaki/Japanese persimmons).

The highest UK NEDI for TA was 8% (toddler). The highest PRIMo IEDI for TA was 5% (NL toddler). The highest UK NESTI for TA was 34.8% of the ARfD (adults/pistachios). The highest PRIMo IESTI for TA was 75% (children/pistachios).

The highest UK NEDI for TAA was 1% (toddler). The highest PRIMo IEDI for TA was 1% (NL toddler). The highest UK NESTI for TAA was <0.1% of the ARfD (adults/pistachios). The highest PRIMo IESTI for TAA was 0.09% (children/pistachios).

The highest UK NEDI for TLA was 2% (infant). The highest PRIMo IEDI for TLA was 1% (NL toddler). The highest UK NESTI for TLA was 2.1% of the ARfD (adults/pistachios). The highest PRIMo IESTI for TLA was 5% (children/pistachios).

A combined risk assessment was carried out for TA + TLA by summing the respective exposure for the critical consumer group. The highest UK NEDI for TA + TLA was 9% of the ADI (0.3 mg/kg bw/day) (toddler). The highest UK NESTI for TA + TLA was 36.9% of the ARfD (0.3 mg/kg bw) (adult/pistachios). The highest PRIMo IEDI for TA + TLA was 6% of the ADI (0.3 mg/kg bw/day) (NL toddler). The highest PRIMo IESTI for TA + TLA was 80% of the ARfD (0.3 mg/kg bw) (children/pistachios).

Therefore, no health effects due to chronic or acute exposure are expected from the consumption of commodities treated with mefentrifluconazole.

HSE concludes that sufficient data have been provided to support the setting of new MRLs for the notified uses of mefentrifluconazole on pistachios, grapes (table and wine), table olives, kaki/Japanese persimmons, lettuce, Roman rocket/rucola, baby leaf crops (including brassica species), spinach, chervil, chives, celery leaves, parsley, sage, rosemary, thyme, basil, laurel/bay leaves, tarragon, beans (without pods), cardoons, celery, Florence fennels, globe artichokes, rhubarb, and olives for oil production. These will not result in consumer exposures exceeding the toxicological reference values and therefore harmful effects on human health are not expected. HSE recommends that the MRLs outlined in Table 0.1 are amended in the GB MRL Statutory Register.

**Table 0.1 MRLs recommended by HSE**

| <b>Product code</b>                    | <b>Product</b>              | <b>Existing GB MRL (mg/kg)</b> | <b>New or amended GB MRL (mg/kg)</b> | <b>Comments</b>                                                                                                   |
|----------------------------------------|-----------------------------|--------------------------------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Enforcement mefentrifluconazole</b> | <b>residue</b>              | <b>definition for</b>          | <b>products of</b>                   | <b>plant origin:</b>                                                                                              |
| 0120100                                | Pistachios                  | 0.01*                          | 0.05                                 | The MRLs are sufficiently supported by data.<br><br>No health effects are expected.                               |
| 0151010                                | Table grapes                | 0.9                            | 1.5                                  |                                                                                                                   |
| 0151020                                | Wine Grapes                 | 0.9                            | 1.5                                  |                                                                                                                   |
| 0161030                                | Table olives                | 0.01*                          | 2.0                                  |                                                                                                                   |
| 0161060                                | Kaki/<br>Japanese persimmon | 0.01*                          | 0.2                                  | The MRL is derived by extrapolation of residue trials on pears and apples.<br><br>No health effects are expected. |
| 0251020                                | Lettuces                    | 0.01*                          | 5.0                                  | The MRL is sufficiently supported by data.<br><br>No health effects are expected.                                 |

| Product code | Product                                         | Existing GB MRL (mg/kg) | New or amended GB MRL (mg/kg) | Comments                                                                                                   |
|--------------|-------------------------------------------------|-------------------------|-------------------------------|------------------------------------------------------------------------------------------------------------|
| 0251060      | Roman rocket/<br>rucola                         | 0.01*                   | 7.0                           | The MRLs are derived by extrapolation of residue trials on spinach.<br><br>No health effects are expected. |
| 0251080      | Baby leaf crops<br>(including brassica species) | 0.01*                   | 7.0                           |                                                                                                            |
| 0252010      | Spinaches                                       | 0.01*                   | 7.0                           | The MRL is sufficiently supported by data.<br><br>No health effects are expected.                          |
| 0256000      | Herbs and edible flowers                        | 0.02*                   | 7.0                           | The MRL is derived by extrapolation of residue trials on spinach.<br><br>No health effects are expected.   |
| 0260020      | Beans<br>(without pods)                         | 0.01*                   | 0.04                          | The MRL is sufficiently supported by data.<br><br>No health effects are expected.                          |

| <b>Product code</b> | <b>Product</b>   | <b>Existing GB MRL (mg/kg)</b> | <b>New or amended GB MRL (mg/kg)</b> | <b>Comments</b>                                                                                                  |
|---------------------|------------------|--------------------------------|--------------------------------------|------------------------------------------------------------------------------------------------------------------|
| 0270020             | Cardoons         | 0.01*                          | 3.0                                  | <p>The MRL is derived by extrapolation of residue trials on celeries.</p> <p>No health effects are expected.</p> |
| 0270030             | Celeries         | 0.01*                          | 3.0                                  | <p>The MRL is sufficiently supported by data.</p> <p>No health effects are expected.</p>                         |
| 0270040             | Florence fennels | 0.01*                          | 3.0                                  | <p>The MRL is derived by extrapolation of residue trials on celeries.</p> <p>No health effects are expected.</p> |
| 0270050             | Globe artichokes | 0.01*                          | 0.7                                  | <p>The MRL is sufficiently supported by data.</p> <p>No health effects are expected.</p>                         |

| <b>Product code</b> | <b>Product</b>            | <b>Existing GB MRL (mg/kg)</b> | <b>New or amended GB MRL (mg/kg)</b> | <b>Comments</b>                                                                                                  |
|---------------------|---------------------------|--------------------------------|--------------------------------------|------------------------------------------------------------------------------------------------------------------|
| 0270070             | Rhubarbs                  | 0.01*                          | 3.0                                  | <p>The MRL is derived by extrapolation of residue trials on celeries.</p> <p>No health effects are expected.</p> |
| 0402010             | Olives for oil production | 0.01*                          | 3.0                                  | <p>The MRL is sufficiently supported by data.</p> <p>No health effects are expected.</p>                         |

\* Indicates that the MRL is set at the limit of quantification/determination

## Background

Assimilated Regulation 396/2005 outlines the rules for setting MRLs in GB. Article 6 covers the submission of applications for MRLs, including the parties which can submit an application. Article 7 outlines that a dossier in accordance with the data requirements of Assimilated Regulation 1107/2009 must be provided.

On 19 February 2024 HSE accepted an application from BASF SE to set new import tolerances for mefentrifluconazole in or on various commodities.

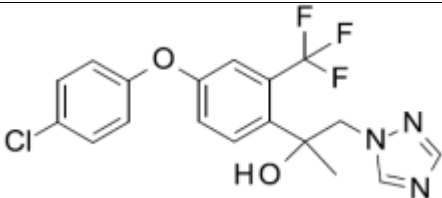
HSE evaluated the information submitted to uniform principles, as defined by Article 8 of Assimilated Regulation 396/2005 and prepared an Evaluation Report. HSE also took into account EFSA Reasoned Opinions and Conclusions on the peer review relating to decisions implemented in GB.

The Evaluation Report is the basis of HSE's Reasoned Opinion.

## The active substance and its use pattern

Information on the active substance mefentrifluconazole is outlined in Table 0.2.

**Table 0.2 Information on the active substance**

|                       |                                                                                              |
|-----------------------|----------------------------------------------------------------------------------------------|
| Common name (ISO)     | Mefentrifluconazole                                                                          |
| Chemical name (IUPAC) | (2RS)-2-[4-(4-chlorophenoxy)-2-(trifluoromethyl)phenyl]-1-(1H-1,2,4-triazol-1-yl)propan-2-ol |
| CAS number            | 1417782-03-6                                                                                 |
| Structural formula    |            |
| Molecular formula     | C <sub>18</sub> H <sub>15</sub> ClF <sub>3</sub> N <sub>3</sub> O <sub>2</sub>               |
| Molecular mass        | 397.8 g/mol                                                                                  |

Mefentrifluconazole is an approved active substance in GB. An EFSA conclusion is available (EFSA, 2018b). MRLs are established for mefentrifluconazole in Part 2 of the GB MRL Statutory Register.

A copy of the current national legislation in the exporting country related to the MRLs under consideration and evidence of the authorisation of the respective uses of the plant protection product in EU, Brazil and the USA was provided by the applicant and is summarised in Appendix E.

Appendix A outlines the GAPs (Good Agricultural Practices) supported in this application.

There are CXLs set for mefentrifluconazole that would cover several of the notified crops.

The CXL database is available at the following link:

<http://www.fao.org/fao-who-codexalimentarius/codex-texts/dbs/pestres/en/>

The residue definitions for enforcement are identical for GB and the CXLs (mefentrifluconazole). However, the GB residue definition for risk assessment includes TDMs, whereas the residue definition for risk assessment used to set the CXLs does not. Therefore, the CXLs cannot be adopted in GB as the overall exposure to the TDMs cannot be assessed as the data available in the JMPR assessment does not include TDMs.

# Assessment

## 1 Methods of analysis

### 1.1 Methods for enforcement and monitoring of residues in food of plant origin

Analytical methods for the determination of mefentrifluconazole in plant commodities, in line with the enforcement residue definition for products of plant origin, were assessed for the approval of the active substance (EFSA, 2018b).

LC-MS/MS method L0076/09 for monitoring mefentrifluconazole in the dry, high water, high acid and high oil commodities groups has been fully validated for the approval of the active substance with an LOQ of 0.01 mg/kg. Acceptable ILV data were provided. Extraction efficacy for this method was addressed for the approval of the active substance.

The crop groups under consideration in the MRL evaluation: high water (spinach, Roman rocket, herbs and edible flowers, baby leaf crops, cardoons, celeries, Florence fennels, kaki/Japanese persimmons, lettuce, beans (without pods) and globe artichokes), high acid (rhubarb and table/wine grapes) and high oil (pistachios, table olives and olives for oil production) are covered by the analytical method available.

### 1.2 Methods for enforcement and monitoring of residues in food of animal origin

Methods for the enforcement and monitoring of residues in food of animal origin are not required as part of this MRL application as it does not set or amend MRLs in products of animal origin.

## 2 Mammalian toxicology

The toxicological end points established for the approval of the active substance and in the TDM confirmatory data review are summarised in Table 2.1 and 2.2.

**Table 2.1 Overview of the toxicological reference values for mefentrifluconazole**

| TRVs | Source      | Year | Value            | Study relied upon                    | Safety factor |
|------|-------------|------|------------------|--------------------------------------|---------------|
| ADI  | EFSA, 2018b | 2018 | 0.035 mg/kg bw/d | 18-month mouse carcinogenicity study | 100           |
| ARfD | EFSA, 2018b | 2018 | 0.15 mg/kg bw    | Rabbit developmental toxicity study  | 100           |

**Table 2.2 Overview of the toxicological reference values for TDMs**

| TRVs | Source      | Year | Value                            | Study relied upon                                             | Safety factor |
|------|-------------|------|----------------------------------|---------------------------------------------------------------|---------------|
| ADI  | EFSA, 2018a | 2017 | <b>TA:</b> 0.3 mg/kg bw/d        | <b>TA:</b> Rabbit developmental study                         | 100           |
|      |             |      | <b>TAA:</b> 1.0 mg/kg bw/d       | <b>TAA:</b> Rat 2-generation and rabbit developmental studies | 100           |
|      |             |      | <b>TLA:</b> 0.3 mg/kg bw/d       | <b>TLA:</b> Bridging from TA                                  | -             |
|      |             |      | <b>1,2,4-T:</b> 0.023 mg/kg bw/d | <b>1,2,4-T:</b> Rat 12-month study                            | 300           |

|      |                |      |                              |                                                             |     |
|------|----------------|------|------------------------------|-------------------------------------------------------------|-----|
| ARfD | EFSA,<br>2018a | 2017 | <b>TA:</b> 0.3 mg/kg bw      | <b>TA:</b> Rabbit developmental study                       | 100 |
|      |                |      | <b>TAA:</b> 1.0 mg/kg bw     | <b>TAA:</b> Rat 2-generation and rabbit developmental study | 100 |
|      |                |      | <b>TLA:</b> 0.3 mg/kg bw     | <b>TLA:</b> Bridging from TA                                | -   |
|      |                |      | <b>1,2,4-T:</b> 0.1 mg/kg bw | <b>1,2,4-T:</b> Rabbit developmental study                  | 300 |

## 3 Residues in plants

### 3.1 Nature of residues in primary crops

Metabolism in primary crops was investigated following foliar spray treatment in cereals (wheat), pulses and oilseeds (soybean) and fruit (grape) for the approval of the active substance (EFSA, 2018b).

A summary of the available primary crop metabolism data is presented below (EFSA, 2018b):

*“Comparable results were obtained for all three crop groups. In most matrices, mefentrifluconazole is the predominant component of the residue (> 60% total radioactive residue (TRR)), notably in forage (wheat, soybean), leaf/stalk (grapevine), straw/hull/chaff (wheat, soybean), green pod (soybean) and grape (grapevine). To the contrary, in wheat grain and soybean seed, mefentrifluconazole is present at very low levels if at all, while the predominant residues are formed by TDM, with triazole alanine as the most abundant compound.”*

**Table 3.1-1 Summary of the primary plant metabolism studies**

| Crop groups         | Crop(s) | Applications                                                 | DAT <sup>(a)</sup> (days) |
|---------------------|---------|--------------------------------------------------------------|---------------------------|
| Fruit               | Grape   | 3 x 150 g a.s./ha, foliar, 10 day interval                   | 12                        |
| Cereals/grass crops | Wheat   | 2 x 150 g a.s./ha, foliar, BBCH 49 & 69; 21 day interval     | 35                        |
| Pulses and oilseeds | Soybean | 3 x 125 g a.s./ha, foliar, BBCH 60, 72 & 77; 18 day interval | 47/48                     |

<sup>(a)</sup> DAT where identification/characterisation of the residues has been investigated

The ratio of the R- and S-enantiomers of mefentrifluconazole residues in plants remained unchanged compared with the ratio in the test substance. This indicates an absence of preferential metabolism or uptake of the enantiomers in plants.

As a consistent metabolic pathway was observed across crops from three crop groups, the available data are sufficient to support all crop groups. The application type in the studies is foliar spray, which is the same as the application type for the authorised uses. On this basis all authorised uses are supported by the available metabolism data.

The residue definition for risk assessment (RD-RA) in plants has been agreed as:

- 1) Mefentrifluconazole

- 2) TA and TLA
- 3) TAA
- 4) 1,2,4-T

The residue definition for enforcement (RD- Enf) in plants has been agreed as:

- Mefentrifluconazole

## 3.2 Magnitude of residues in primary crops

The uses notified in the import tolerance request are outlined in Appendix A. As outlined in Appendix E, evidence was provided to confirm authorisations in several EU MS. Therefore, reference is only made to northern Europe, southern Europe or the EU (if authorisations have been granted in both regions) rather than the individual countries in the EU that have authorisations.

### Residue trials

Trials conducted in northern and southern Europe have been considered where there are authorised uses in northern and southern EU MS for the same GAP. Northern and southern European datasets have been combined when they are similar (Mann-Whitney U-test, 5%) and have neighbouring MRL classes.

Summaries of the residues arising from the residue trials evaluated under Appendix C.3.1.2 are presented in Table 3.2-2 for residues of mefentrifluconazole and in Table 3.2-3 for residues of TDMs.

The trials were conducted in accordance with the relevant guidance documents (OECD 509), and no significant deviations were noted in the trials.

The residues of TDMs arising in untreated samples were sometimes significantly higher than the treated samples which is likely due to the historical use of triazole pesticides. Where this is the case, the untreated sample residue was selected for risk assessment purposes.

### 0120100 Pistachio

The authorised critical GAP for pistachio in southern EU is 2 x 0.15 kg a.s./ha at BBCH 19-79, RTI 7 days, PHI 28 days and a spray concentration of 0.1 kg a.s./hL.

The MRL in force for pistachios in the EU is 0.06 mg/kg, this is greater than the MRL calculated from the submitted trials on pistachios (0.05 mg/kg). The higher EU MRL is due to the adoption of the CXL for mefentrifluconazole. However, in GB the residue definition for risk assessment includes TDMs, whereas the residue definition for risk assessment used to set the CXLs does not. Therefore, the CXL of 0.06 mg/kg for tree nuts cannot be adopted in GB as the overall exposure to the TDMs cannot be assessed. A GB MRL of 0.05 mg/kg will accommodate the use in the EU.

The applicant has submitted six southern Europe outdoor trials on pistachio in the context of this application. The trials were conducted at 2 x 0.144 - 0.157 kg a.s./ha with last application at BBCH 78-81, RTI 6-8 days, PHI 27-28 days and in 480 - 524 L/ha of water (spray concentration: 0.03 kg a.s./ hL). The trials are within  $\pm 25\%$  of the cGAP.

As pistachios are a tall crop, residues may be driven by spray concentration due to direct application to the plant and the fact that the spray is often applied to run off. The spray concentration used in the trials was 0.03 kg a.s./hL. The spray concentration in the GAP is 0.1 kg a.s./hL (water volume: 150 L/ha).

As only one spray concentration was used in the trials, it is not possible to determine whether it is application rate or spray concentration which is predominantly driving the residue. However, previously assessed trials (HSE, 2023) on other fruit and fruiting vegetable crops showed that the spray concentration does not have a significant effect on residues, therefore the trials support the notified use.

As set out in the GB extrapolation guidance 2024, pistachios are a minor crop therefore four trials are required to support the notified use in the southern EU. As six trials on pistachio are available, this is considered sufficient to support the notified use on pistachio.

The GAP on pistachios is application after the formation of the edible part, therefore half of the trials should be decline trials. As all six of the submitted trials were decline trials, this is sufficient to support the notified use.

Sufficient trials are available to accommodate the notified use of mefentrifluconazole on pistachio in southern EU.

**0151010      Table grapes**

**0151020      Wine grapes**

The authorised critical GAP for grapes (table and wine) in Brazil is 4 x 0.1 kg a.s./ha, RTI 7 days, PHI 14 days and a spray concentration of 0.01 kg a.s./hL. A growth stage is not specified.

The MRL in force for grapes in Brazil is 1.5 mg/kg, this matches the MRL calculated from the submitted trials on grapes.

The applicant has submitted six Brazil and two Chile outdoor trials on grape in the context of this application. The trials were conducted at 4 x 0.1 kg a.s./ha, RTI 7 days, PHI 14 days, 1000 L/ha of water (spray concentration: 0.01 kg a.s./hL). The trials are within  $\pm 25\%$  of the cGAP. There was no BBCH at last application set in the GAP, the latest BBCH of normal commercial harvest of grapes is BBCH 89. The BBCH at the last application in the trials was BBCH 81-89, as this is the same principal growth stage and a PHI of 14 days was used, the trials are sufficient to support the notified GAP. It should be noted that residues of mefentrifluconazole and the TDMs were analysed and reported separately in two separate study reports (see Appendix C.3.1.2.2).

As grapes are a tall crop, residues may be driven by spray concentration due to direct application to the plant and the fact that the spray is often applied to run off. The spray

concentration used in the trials was 0.01 kg a.s./hL. The spray concentration in the GAP is 0.01 kg a.s./hL (water volume: 1000L/ha) and hence no further consideration is required.

As set out in the GB extrapolation guidance 2024, grapes (table and wine) are a major crop worldwide therefore eight trials are required to support the notified use in Brazil. As seven trials on table grapes are available, and one trial on wine grapes is available, this is considered sufficient to support the notified use on both types of grapes (table and wine).

The cGAP on grapes is application after the formation of the edible part, therefore half of the trials should be decline trials. As all eight of the submitted trials were decline trials, this is sufficient to support the notified use.

Sufficient trials are available to accommodate the notified use of mefentrifluconazole on table grapes and wine grapes in Brazil.

**0161030      Table Olives**  
**0402010      Olives for oil production**

The authorised critical GAP for table olives in southern EU is 2 x 0.15 kg a.s./ha at BBCH 15-85, RTI 10 days, PHI 21 days and a spray concentration of 0.015 kg a.s./hL.

The MRL in force for table olives in the EU is 2 mg/kg, this matches the MRL calculated from the submitted trials on table olives.

The MRL in force for olives for oil production in the EU is 3 mg/kg, this matches the MRL calculated from the submitted trials on olives for oil production.

The applicant has submitted 16 southern Europe trials on olives in the context of this application. The trials were conducted on two separate plots one for olives for oil production and the other for table olives. The trials were conducted at 2 x 0.143 – 0.162 kg a.s./ha, 20-22 day PHI, 10-12 day RTI, with last application at BBCH 75-85. The applications were within  $\pm 25\%$  of the notified GAP.

As table olives are a tall crop, residues may be driven by spray concentration due to direct application to the plant and the fact that the spray is often applied to run off. The spray concentration used in the trials was 0.015 kg a.s./hL. The spray concentration in the GAP is 0.015 kg a.s./hL (water volume: 1000 L/ha); as this matches the trials, no further consideration is required.

As set out in the GB extrapolation guidance 2024, both table olives and olives for oil production are a minor crop therefore four trials are required. As eight trials are available on each type of olive, this is sufficient to support the notified uses.

The GAP on olives includes applications after the formation of the edible part therefore half of the submitted trials should be decline trials. As all eight of the submitted trials are decline trials, this is sufficient to support the notified use.

As sufficient trials are available for both table olives and olives for oil production separate MRLs can be determined for each crop. Sufficient trials are available to accommodate the notified use of mefentrifluconazole on table olives and olives for oil production in southern EU.

#### **0161060      Kaki/Japanese persimmons**

The authorised critical GAP for kaki/Japanese persimmons in southern EU is 2 x 0.15 kg a.s./ha at BBCH 55-85, RTI 7 days, PHI 28 days and a spray concentration 0.1 kg a.s./hL.

The MRL in force for kaki/Japanese persimmons in the EU is 0.2 mg/kg, this matches the MRL calculated from the submitted trials on apples/pears (as outlined below this is an acceptable extrapolation).

The applicant has submitted eight southern Europe outdoor trials outdoor trials on apples and pears in the context of this application (4 on apple and 4 on pear). The trials were conducted at 2 x 0.15 kg a.s./ha with last application at BBCH 72-81, RTI 9-11 days, PHI 27-28 days and in 800 L/ha of water (spray concentration: 0.02 kg a.s./hL).

The majority of the trials were undertaken with last application at BBCH 79 or 81 (5 of the 8 trials). Three trials were undertaken with a last application of BBCH 72-77 and showed similar residue levels to the trials with BBCHs 79-81 (0.02 to 0.11 mg/kg vs 0.026 to 0.10 mg/kg). Due to the similarity in residues and the fact that the PHIs used match the notified GAP, the BBCHs at application are considered acceptable. It should be noted that RTIs between 9-11 days were used which is greater than +25% of the notified cGAP (7 days). However, the residue levels of parent mefentrifluconazole and TDMs are comparable regardless of RTI within the range tested, in most of the trials the residues were higher at the longer RTIs. Therefore, the trials are considered to support the cGAP despite falling outside 25% of the notified GAP. Therefore, the trials are considered acceptable to support the notified GAP.

As kaki/Japanese persimmons are a tall crop, residues may be driven by spray concentration due to direct application to the plant and the fact that the spray is often applied to run off. The spray concentration used in the trials was 0.02 kg a.s./hL. The spray concentration in the GAP is 0.1 kg a.s./hL (water volume: 150 L/ha).

As only one spray concentration was used in the trials, it is not possible to determine whether it is application rate or spray concentration which is predominantly driving the residue. However, previously assessed trials (HSE, 2023) on other fruit and fruiting

vegetable crops showed that the spray concentration does not have a significant effect on residues, therefore the trials support the notified use.

As set out in the GB extrapolation guidance 2024, kaki/Japanese persimmons are a minor crop therefore four trials are required to support the notified use in southern EU. As four southern European trials on apple and four southern European trials on pears are available, which can be extrapolated to kaki/Japanese persimmons before and after formation of the edible part, this is considered sufficient to support the notified use on kaki/Japanese persimmons.

The cGAP on kaki/Japanese persimmons is application after the formation of the edible part, therefore half of the trials should be decline trials. As all of the submitted trials are decline trials, this is sufficient to support the notified use.

Sufficient trials are available to accommodate the notified use of mefentrifluconazole on kaki/Japanese persimmons in southern EU.

## **0251020      Lettuces**

The authorised critical GAP for head lettuce in the USA is 3 x 0.146 kg a.s./ha, RTI 7 days, PHI 0 days, with no more than 3 applications at 0.146 kg a.s./ha (0.438 kg a.s./ha total) applied in a year. A growth stage is not specified.

The MRL in force for head lettuce in the USA is 5 mg/kg, this matches the MRL calculated from the submitted trials on head lettuce.

The applicant has submitted eight USA outdoor trials on head lettuce in the context of this application. The trials were conducted at 3 x 0.147 – 0.157 kg a.s./ha, RTI 6-8 days, PHI 0 days. The trials are within  $\pm 25\%$  of the cGAP. There was no BBCH at last application set in the GAP, the latest BBCH of normal commercial harvest of lettuce is BBCH 49. The BBCH at the last application in the trials was BBCH 49, therefore the trials support the notified GAP.

As set out in the GB extrapolation guidance 2024, lettuce is a major crop therefore eight trials are required to support the notified use in the USA. As eight trials on lettuce are available, this is considered sufficient to support the notified use on head lettuce.

The cGAP on lettuce is application after the formation of the edible part, therefore half of the trials should be decline trials. Only one of the 8 submitted trials was a decline trial which showed residues were significantly higher at the notified PHI of 0 days compared to later sampling events. Therefore, it is reasonable to consider that the residues will be highest at the notified PHI and the available trials are sufficient to support the notified use.

Sufficient trials are available to accommodate the notified use of mefentrifluconazole on head lettuce in the USA.

The USA GAP and MRL are specifically for head lettuces which has the commodity description head lettuces/ cabbage lettuces in Part 1B of the GB MRL Statutory Register. The MRL code is 0251020-003. HSE recommends that as head lettuces are widely consumed as leafy/ opened leaf varieties that the GB MRL is established for lettuces [0251020] and not specifically head lettuces/ cabbage lettuces.

**0252010 Spinach**  
**0251060 Roman rocket/rucola**  
**0256000 Herbs and edible flowers**  
**0251080 Baby leaf crops (including brassica species)**

The authorised critical GAP for spinach, Roman rocket/rucola and herbs and edible flowers in southern EU is 1 x 0.113 kg a.s./ha, PHI 3 days at BBCH 10 - 49. The authorised critical GAP for baby leaf crops in southern EU is 1 x 0.113 kg a.s./ha, PHI 3 days at BBCH 10-19.

The MRL in force for spinach, Roman rocket/rucola, baby leaf crops (including brassica species) and herbs and edible flowers in the EU is 7 mg/kg, this matches the MRL calculated from the submitted trials on spinach (as outlined below all these uses are supported by the extrapolation from spinach).

The applicant has submitted four southern Europe outdoor trials on spinach in the context of this application. The trials were conducted at 1 x 0.113 - 0.120 kg a.s./ha at BBCH 47-49 and a PHI of 2-3 days. The trials are within  $\pm 25\%$  of the notified cGAP for spinach, Roman rocket/rucola and herbs and edible flowers. Due to the nature of the crop, the notified GAP for baby leaf crops (including brassica species) includes application at BBCH 10-19, whereas the trials were undertaken with application at BBCH 47-49. The residue level determining parameters are harvest interval and application rate, as these parameters in the trials on spinach are within  $\pm 25\%$  of the parameters in the notified GAP for baby leaf crops (including brassica species), the trials can be extrapolated to baby leaf crops.

As set out in the GB extrapolations guidance 2024, spinach, Roman rocket/rucola and herbs and edible flowers are minor crops therefore four trials are required to support the notified use in southern EU. As four trials are available on spinach, which can be extrapolated to Roman rocket/rucola, baby leaf crops (including brassica species) and the whole herbs and edible flowers subgroup before and after formation of the edible part, this is considered sufficient to support the notified uses. (It should be noted for crops for which leafy parts are harvested before and after the edible parts have formed references to before and up to BBCH 16 and after BBCH16. This has no impact on the extrapolation applied).

The GAP on spinach is application after the formation of the edible part, therefore half of the trials should be decline trials. As all four of the submitted trials are decline trials, this is sufficient to support the notified uses.

Sufficient trials are available to accommodate the notified use of mefentrifluconazole on spinach, Roman rocket/rucola, herbs and edible flowers and baby leaf crops (including brassica species) in southern EU.

#### **0260020      Beans (without pods)**

The authorised critical GAP for beans (without pods) in EU is 2 x 0.098 kg a.s./ha, RTI 10 days, PHI defined by growth stage of last application and last application at BBCH 72.

The MRL in force for beans (without pods) in the EU is 0.04 mg/kg, this is the same as the MRL calculated from the submitted northern European trials on beans (without pods) (0.04 mg/kg). It should be noted that, although the data from northern and southern Europe are similar (U-test, 5%) and the same GAP applies, the data sets result in MRL proposals which are neither identical nor in neighbouring MRL classes (see Table 3.2-2). Therefore, the northern and southern Europe datasets have not been combined.

The applicant has submitted eight southern and eight northern Europe trials on beans (without pods) in the context of this application. The trials were conducted at 2 x 0.0975 – 0.109 kg a.s./ha, RTI 7-11 days and last application at BBCH 72. Only one of the eight trials had an RTI of 7 days, as the residues in beans (without pods) arising in these trials were <0.01 mg/kg, it is considered that this deviation does not adversely impact the validity of the trials. Therefore, the trials are considered sufficient to support the notified GAP.

As set out in the GB extrapolation guidance 2024, beans (without pods) are a minor crop therefore four trials are required. As 16 trials are available on beans (without pods) (8 northern and 8 southern Europe), this is sufficient to support the notified use.

The GAP on beans (without pods) includes application after the formation of the edible part (BBCH 71 onwards), therefore half of the trials should be decline trials. As all 16 of the submitted trials are decline trials, this is sufficient to support the notified use.

Sufficient trials are available to accommodate the notified use of mefentrifluconazole on beans (without pods) in EU.

**0270030      Celeries**  
**0270020      Cardoons**  
**0270040      Florence fennels**  
**0270070      Rhubarbs**

The authorised critical GAP for celeries, cardoons, Florence fennels and rhubarb in southern EU is 3 x 0.113 kg a.s./ha, RTI 14 days, PHI 7 days with last application at BBCH 49.

The MRL in force for celeries, cardoons, Florence fennels and rhubarb in the EU is 3 mg/kg, this matches the MRL calculated from the submitted trials on celeries.

The applicant has submitted four southern Europe trials on celery in the context of this application. The trials were conducted at 3 x 0.106 - 0.123 kg a.s./ha, RTI 14 days, PHI 7 days and last application at BBCH 39-47. In all trials but one, the final application was carried out at the same principal growth stage of the notified cGAP. In one trial, last application was made at BBCH 39-43. As this is very close to the principal growth stage specified in the notified GAP, and as the RTI and PHI used match the notified cGAP, the trials are considered sufficient to support the notified GAP.

As set out in GB extrapolations guidance 2024, celery, cardoons, Florence fennels and rhubarbs are minor crops in southern Europe therefore four trials are required. As four trials are available on celery, which can be extrapolated to cardoons, Florence fennels and rhubarbs before and after formation of the edible part, this is sufficient to support the notified uses.

The GAP on celery is application after the formation of the edible part, therefore half the trials should be decline trials. As all four of the submitted trials were decline trials, this is sufficient to support the notified uses.

Sufficient trials are available to accommodate the notified use of mefentrifluconazole on celeries, cardoons, Florence fennel and rhubarb in southern Europe.

## **0270050      Globe Artichokes**

The authorised critical GAP for globe artichokes in Greece, Italy, Spain, Portugal, Cyprus, Bulgaria and Croatia is 3 x 0.113 kg a.s./ha at BBCH 15-59, RTI 7 days and PHI 3 days.

The MRL in force for globe artichokes in the EU is 0.7 mg/kg, this matches the MRL calculated from the submitted trials.

The applicant has submitted four southern European trials in the context of this application. The trials were conducted at 3 x 0.110 – 0.119 kg a.s./ha, RTI 6-8 days, PHI 2-3 days with last application at BBCH 55-59. The applications are within  $\pm 25\%$  of the notified GAP.

As set out in the GB extrapolation guidance 2024, globe artichokes are a minor crop therefore four trials are required. As four trials are available on globe artichokes, this is sufficient to support the notified use.

Sufficient trials are available to accommodate the notified use of mefentrifluconazole on globe artichoke in Greece, Italy, Spain, Portugal, Cyprus, Bulgaria and Croatia.

### Storage stability

A summary of the available storage stability data for mefentrifluconazole from the approval of the active substance (EFSA, 2018b) and for the TDMs from the TDM review (EFSA, 2018a) and a previous ER/RO (HSE, 2025a) is presented in Table 3.2-1.

**Table 3.2-1 Summary of the available storage stability data**

| Commodity group      | Commodity                    | T (°C) | Stability (months)  |                   |                   |                   |     |
|----------------------|------------------------------|--------|---------------------|-------------------|-------------------|-------------------|-----|
|                      |                              |        | Mefentrifluconazole | 1,2,4-T           | TA                | TAA               | TLA |
| High water content   | Tomato                       | -18    | 24                  | 6                 | 53                | 53                | -   |
|                      | Apple                        | -18    | 24                  | 6                 | 12                | 12                | -   |
|                      | Lettuce leaves               | -18    | -                   | -                 | -                 | -                 | 48  |
|                      | Mustard Greens               | -18    | -                   | 6                 | 53                | 53                | -   |
|                      | Radish tops                  | -18    | -                   | 12                | 26                | ≤12               | -   |
|                      | Wheat (whole plant no roots) | -18    | 24                  | 4                 | 53                | 53                | -   |
| High oil content     | Soyabean                     | -18    | 24                  | 12                | 26                | 26                | -   |
|                      | Rape seed                    | -18    | 24                  | Not stable        | Not stable        | 53                | 48  |
|                      | Hazelnut (meat)              | -18    | -                   | 12 <sup>(a)</sup> | -                 | -                 | -   |
| High protein content | Dried pea                    | -18    | 24                  | -                 | 15                | 25                | 48  |
|                      | Dried bean                   | -18    | 24                  | 48 <sup>(a)</sup> | 15                | 25                | 48  |
| High starch content  | Wheat/ barley grain          | -18    | 24                  | 12                | 26                | 26                | 48  |
|                      | Potato                       | -18    | 24                  | -                 | -                 | -                 | -   |
| High acid content    | Grape                        | -18    | 24                  | -                 | -                 | -                 | -   |
|                      | Lemon                        | -18    | 24                  | -                 | -                 | -                 | 48  |
|                      | Orange fruit                 | -18    | 24                  | 42 <sup>(a)</sup> | 48 <sup>(a)</sup> | 48 <sup>(a)</sup> | 48  |
| Other                | Wheat straw                  | -18    | 24                  | 12                | 53                | 40                | -   |

<sup>(a)</sup> Data from previously evaluated study (HSE, 2025a). All other data from the TDM Review (EFSA, 2018a)

## Mefentrifluconazole

The stability of mefentrifluconazole during storage has been demonstrated in high water (tomato, apple), high oil (soyabean seed, rape seed), high protein (dried pea seed, dried bean seed), high starch (wheat grain, potato tuber) and high acid (grape, lemon) for a period of 730 days (~24 months) when stored at  $\leq -18^{\circ}\text{C}$  (EFSA, 2018b).

The maximum frozen storage periods for mefentrifluconazole in the trials were 179 days for apples and pears (extrapolated to kaki/Japanese persimmons), 306 days for head lettuce, 455 days for spinach, 235 days for celery, 191 for globe artichokes, 252 days for beans (without pods) (high water content commodities), 119 days for pistachios, 140 days for olives for oil production, 185 days for table olives (high oil content commodities) and 257 days for grapes (high acid content commodity).

Therefore, sufficient data are available to support the storage stability of mefentrifluconazole in head lettuce, apples and pears (extrapolated to kaki/Japanese persimmons), spinach, celery, beans (without pods) and globe artichokes (high water content commodities), for pistachios and olives (high oil content) and grapes (high acid content) as mefentrifluconazole is stable for up to 24 months in all crop groups.

## TDMs

Stability of the TDMs during storage was considered in a number of crop matrices as part of the TDM review (UK, 2018a). Additional storage stability data for 1,2,4-T in high oil, high protein and high acid content commodities and for TA and TAA in high acid content commodities was evaluated in a previous ER/RO (HSE, 2025a).

The maximum frozen storage periods for TDMs in the trials were 191 days for beans (without pods), 160 days for celeries, 175 days for spinach, 252 days for apples and pears (extrapolated to kaki/Japanese persimmons), 253 days for globe artichokes and 306 days for head lettuce (high water content commodities), 58 days for pistachios, 263 days for table olives, 182 days for olives for oil production (high oil content commodities) and 412 days for grapes (high acid content commodities).

## 1,2,4-T

In high water content commodities, 1,2,4-T was shown to be stable for at least 6 months in three crops and at least 12 months in an additional crop. Given the weight of evidence, 1,2,4-T is therefore considered to be stable in high water content commodities for **at least 6 months and up to 12 months**.

For high oil content commodities, in the TDM Review (EFSA, 2018a), it was concluded that 1,2,4-T was not stable in oilseed rape but stable in soyabean for up to 12 months. A study evaluated in a previous ER/RO (HSE, 2025a) demonstrates stability of 1,2,4-T in

hazelnut meat for up to 12 months. It should also be noted that storage stability of 1,2,4-T in oilseed meal and oilseed rape oil was shown for up to 54 months. Therefore, 1,2,4-T is considered stable in high oil content commodities for **up to 12 months**.

For high protein content commodities, data evaluated in a previous ER/RO (HSE, 2025a) shows stability of 1,2,4-T in dried beans for **up to 48 months**.

For high starch content commodities, the TDM Review (EFSA, 2018a) shows stability of 1,2,4-T in cereal grain for **up to 12 months**. It should be noted that stability data for 1,2,4-T in high starch content commodities is available for one crop only.

For high acid content commodities, sufficient storage stability data is available in the previously evaluated study (HSE, 2025a), showing stability of 1,2,4-T for **up to 42 months**. It should be noted that data is available for only one crop in the high acid content commodity group.

Based on the available data, 1,2,4-T is considered stable in all crop groups for **at least 6 months and up to 12 months**.

## TA

In high water content commodities, TA was shown to be stable for at least 12 months in five crops in the TDM Review (EFSA, 2018a). Therefore, TA is considered to be stable in high water content commodities for **at least 12 months**.

For high oil content commodities, the TDM Review (EFSA, 2018a) concluded that TA was not stable in oilseed rape. However, TA recoveries were <70% at day zero and remained similar throughout the duration of the study (~54 months) which may be due to degradation immediately after fortification (or an error in fortification level or a persistent error in sample dilution). In addition, a non-GLP storage stability study for TA in oilseed rape showed stability of at least 15 months and this was considered as supporting information in the TDM Review (EFSA, 2018a). Additionally, TA was demonstrated to be stable in soyabean for **up to 26 months**. It should be noted that data for the stability of TA in high oil content commodities is available for one crop only.

For high protein content/dry commodities, the TDM Review (EFSA, 2018a) demonstrated stability of TA for **up to 15 months**.

In high starch content commodities, the TDM Review (EFSA, 2018a) shows stability of TA in cereal grain for **up to 26 months**. It should be noted that stability data for TA in high starch content commodities is available for one crop only.

For high acid content commodities, sufficient storage stability data is available in the previously evaluated study (HSE, 2025a) for TA, showing stability **up to 48 months**. It

should be noted that data is available for only one crop in the high acid content commodity group.

Based on the available data, TA is considered stable in all crop groups for **at least 12 months**.

## **TAA**

In high water content commodities, TAA was shown to be stable for up to 12 months in five crops in the TDM Review (EFSA, 2018a). Therefore, TAA is considered to be stable in high water content commodities for **up to 12 months**.

For high oil content commodities, data from the TDM Review (EFSA, 2018a) showed that TAA was stable for **up to 26 months**.

For high protein content/dry commodities, the TDM Review (EFSA, 2018a) demonstrated stability of TAA for **up to 25 months**.

In high starch content commodities, the TDM Review (EFSA, 2018a) shows stability of TAA in cereal grain for **up to 26 months**. It should be noted that stability data for TAA in high starch content commodities is available for one crop only.

For high acid content commodities, sufficient storage stability data is available in the previously evaluated study (HSE, 2025a) for TAA, showing stability **up to 48 months**. It should be noted that data is available for only one crop in the high acid content commodity group.

Based on the available data, TAA is considered stable in all crop groups for **up to 12 months**.

## **TLA**

In high water content commodities, TLA was shown to be stable for **up to 48 months** in one crop in the TDM Review (EFSA, 2018a). It should be noted that stability data for TLA in high water content commodities is available for one crop only.

For high oil content commodities, data from the TDM Review (EFSA, 2018a) showed that TAA was stable for **up to 48 months**. It should be noted that stability data for TLA in high oil content commodities is available for one crop only.

For high protein content/dry commodities, the TDM Review (EFSA, 2018a) demonstrated stability of TLA for **up to 48 months**.

In high starch content commodities, the TDM Review (EFSA, 2018a) shows stability of TLA in cereal grain for **up to 48 months**. It should be noted that stability data for TLA in high starch content commodities is available for one crop only.

For high acid content commodities, sufficient storage stability data is available from the TDM Review (EFSA, 2018a) for TLA, showing stability **up to 48 months**. It should be noted that data is available for only one crop in the high acid content commodity group.

Based on the available data, TLA is considered stable in all crop groups for **up to 48 months**.

In summary, on the weight of evidence, the demonstrated storage periods for the TDMs in all crop groups, are:

- **1,2,4-T:** 6 to 12 months
- **TA:** 12 months
- **TAA:** 12 months
- **TLA:** 48 months

Therefore, sufficient data are available to support the storage stability of TDMs in head lettuce, apples and pears (extrapolated to kaki/Japanese persimmons), spinach, celery, beans (without pods) and globe artichokes (high water content commodities), for pistachios and olives (high oil content).

It should be noted that samples for TDM analysis in the trials on grapes (high acid content) were stored for up to 412 days (approx. 13.5 months). Sufficient data is available to demonstrate stability of TLA for this time in all crop groups. Data is available for the stability of 1,2,4-T, TA and TAA in a high acid content commodity for up to 42, 48 and 48 months respectively. Although, it should be noted that data is available for only one crop in the high acid content commodity group (orange fruit). However, as the available data demonstrates stability of 1,2,4-T, TA and TAA in the high acid content commodity for >13.5 months and that all available data demonstrates stability of these TDMs in all crop groups for at least 12 months (which is very similar to the storage period in the grape trials), this is considered sufficient to support the storage stability of TDMs in grapes (high acid content commodity) in this case.

Therefore, sufficient data are available to support the storage stability of TDMs in all submitted field trials.

## **Analytical methods**

### **Mefentrifluconazole**

The HPLC-MS/MS method L0076/09 was used for determination of residues of mefentrifluconazole in plant matrices analysed in the trials: apples/pears (extrapolated to kaki/Japanese persimmons), globe artichokes, spinach, celery and beans (without pods) (high water content commodities), grapes (high acid content commodities), pistachios, table olives and olives for oil production (high oil content commodities).

Method L0076/09 was satisfactorily validated in accordance with SANCO/3029/99 rev. 4 with an LOQ of 0.01 mg/kg for the determination of mefentrifluconazole in high water content, high acid content, high oil content and dry commodities for the approval of the active substance (EFSA, 2018a). Extraction efficiency was satisfactorily addressed for the method. Sufficient procedural recoveries were obtained in the trials; therefore, the method is considered suitably validated for these commodities.

The LC-MS/MS method D1511/01 was used for determination of residues of mefentrifluconazole in plant matrices analysed in the trials on lettuce (high water commodity).

Method D1511/01 was satisfactorily validated in accordance with SANCO/3029/99 rev.4 on high water commodities in a previous ER/RO (HSE, 2023) for mefentrifluconazole, with an LOQ of 0.01 mg/kg. Extraction efficiency was satisfactorily addressed for the method. Sufficient procedural recoveries were obtained in the trials, therefore the method is considered suitably validated for these commodities.

### **TDMs**

The HPLC-DMS-MS/MS analytical method L0170/02 was used for the determination of residues of 1,2,4-T, TA, TAA and TLA in the plant matrices analysed in the trials: apples/pears (extrapolated to kaki/Japanese persimmons), globe artichokes, spinach, celery and beans (without pods) (high water content commodities), grapes (high acid content commodities), pistachios, table olives and olives for oil production (high oil content commodities).

Method L0170/02 was satisfactorily validated in accordance with SANCO/3029/99 rev.4 on dry, high water, high acid and high oil content commodities during the TDM review (UK, 2018a) with an LOQ of 0.01 mg/kg. Extraction efficiency was satisfactorily addressed for the method. Sufficient procedural recoveries were obtained in the trials; therefore, the method is considered suitably validated for these commodities.

The LC-MS/MS analytical method 01062/M004 was used for the determination of residues of 1,2,4-T, TA, TAA and TLA in the plant matrices analysed in the trials on lettuce (high water).

Method 01062/M004 was satisfactorily validated in accordance with SANCO/3029/99 rev.4 on high water content commodities during the TDM review (UK, 2018a) with an LOQ of 0.01 mg/kg. Extraction efficiency was satisfactorily addressed for the method. Sufficient procedural recoveries were obtained in the trials; therefore, the method is considered suitably validated for these commodities.

**Table 3.2-2 Overview of the available residue trials data for mefentrifluconazole**

| <b>Commodity</b>                                     | <b>Region/<br/>Indoor</b>      | <b>Residue levels (mg/kg)<br/>observed in the trials<br/>representative for the<br/>intended GAPs (a)</b> | <b>Recommendations/<br/>Comments (OECD<br/>calculations)</b>                                                         | <b>MRL<br/>proposals<br/>(mg/kg)</b> | <b>HR<br/>(mg/kg)<br/>(b)</b> | <b>STMR<br/>(mg/kg)<br/>(c)</b> |
|------------------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------------------------|---------------------------------|
| <b>RD-Enf =</b>                                      | <b>RD-RA1:</b>                 | <b>Mefentrifluconazole</b>                                                                                |                                                                                                                      |                                      |                               |                                 |
| Pistachios                                           | Southern<br>Europe,<br>Outdoor | <0.01, 0.015, 0.016, 2 x<br>0.018, 0.024                                                                  | MRL <sub>OECD</sub> = 0.045/0.05                                                                                     | 0.05                                 | 0.024                         | 0.017                           |
| Grape                                                | Brazil, Outdoor                | 0.12, 0.32, 0.34, 0.37, 0.38, 2<br>x 0.40, 0.86                                                           | MRL <sub>OECD</sub> = 1.229/1.5                                                                                      | 1.5                                  | 0.86                          | 0.375                           |
| Table Olives                                         | Southern<br>Europe,<br>Outdoor | 0.30, 0.34, 0.44, 0.48, 0.57, 2<br>x 0.77, 0.88                                                           | MRL <sub>OECD</sub> = 1.706/2                                                                                        | 2                                    | 0.880                         | 0.525                           |
| Olives for<br>Oil<br>production                      | Southern<br>Europe,<br>Outdoor | 0.20, 0.23, 0.32, 0.33, 0.38,<br>0.60, 1.2, 1.4                                                           | MRL <sub>OECD</sub> = 2.431/3                                                                                        | 3                                    | 1.4                           | 0.355                           |
| Apples and<br>pears →<br>Kaki/Japanese<br>persimmons | Southern<br>Europe,<br>Outdoor | Pear: 0.02, 0.047, 0.088, 0.10<br>Apple: 0.026 0.063, 0.081<br>0.11                                       | MRL <sub>OECD</sub> = 0.201/0.2<br><br>Trials on apples and<br>pears extrapolated to<br>kaki/Japanese<br>persimmons. | 0.2                                  | 0.11                          | 0.072                           |
| Head lettuce                                         | USA, Outdoor                   | 0.12, 0.27, 0.32, 0.89, 1.28,<br>1.50, 2.05, 2.15                                                         | MRL <sub>OECD</sub> = 4.277/5.0                                                                                      | 5                                    | 2.15                          | 1.08                            |

|                                                                                        |                                |                         |                                                                                                                                                                                                                                                                                                          |       |       |       |
|----------------------------------------------------------------------------------------|--------------------------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|
| Spinach<br>→Roman<br>rocket/rucola, edible<br>flowers and<br>herbs, baby<br>leaf crops | Southern<br>Europe,<br>Outdoor | 0.83, 2.4, 2.5, 3.6     | MRL <sub>OECD</sub> = 6.998/7<br><br>Trials on spinach<br>extrapolated to<br>rocket/rucola, edible<br>flowers and herbs, baby<br>leaf crops.                                                                                                                                                             | 7     | 3.60  | 2.45  |
| Beans<br>(without<br>pods)                                                             | Northern<br>Europe,<br>Outdoor | 6 x <0.01, 0.016, 0.025 | MRL <sub>OECD</sub> = 0.034/0.04<br><br>Northern and Southern<br>Europe data similar (U-<br>test, 5%) and GAPs the<br>same, however MRL<br>proposals are outside<br>neighbouring classes.<br>The MRL based on the<br>northern Europe data is<br>used in line with the<br>exporting jurisdiction<br>(EU). | 0.04  | 0.025 | 0.01  |
|                                                                                        | Southern<br>Europe,<br>Outdoor | 8 x <0.01               |                                                                                                                                                                                                                                                                                                          | 0.01* | <0.01 | <0.01 |
| Celery<br>→cardoons,<br>Florence<br>fennels,<br>rhubarbs                               | Southern<br>Europe,<br>Outdoor | 0.25, 0.45, 0.75, 1.5   | MRL <sub>OECD</sub> =2.931/3<br><br>Trials on celery<br>extrapolated to<br>cardoons, Florence<br>fennels and rhubarbs.                                                                                                                                                                                   | 3     | 1.5   | 0.6   |
| Globe<br>Artichoke                                                                     | Southern<br>Europe,<br>Outdoor | 0.13, 0.23, 0.27, 0.31  | MRL <sub>OECD</sub> = 0.705/0.7                                                                                                                                                                                                                                                                          | 0.7   | 0.310 | 0.250 |

- (a) Residue levels in trials conducted according to GAPs reported in ascending order. When residue definitions for enforcement and risk assessment differ, **Enf/RA** differentiate data expressed according to the residue definition for **Enforcement** and **Risk Assessment**.
- (b) **HR**: Highest residue, according to the residue for risk assessment, (within brackets when expressed according to the residue definition for enforcement:  $HR_{Enf}$ )
- (c) **STMR**: Supervised Trials Median Residue according to the residue definition risk assessment (within brackets when expressed according to the residue definition for enforcement:  $STMR_{Enf}$ )

Table 3.2-3 Overview of the available residue trials data for TDMs

| Commodity                     | Region/<br>Indoor              | Residue levels (mg/kg)<br>observed in the trials<br>representative for the<br>intended GAPs<br>(a)                                                                                | Recommendations/<br>comments<br>(OECD calculations) | MRL<br>proposals<br>(mg/kg) | HR<br>(mg/kg)<br>(b)                                                              | STMR<br>(mg/kg)<br>(c)                                                            |
|-------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| RD-RA2:<br>RD-RA3:<br>RD-RA4: | TA and TLA<br>TAA<br>1,2,4-T   |                                                                                                                                                                                   |                                                     |                             |                                                                                   |                                                                                   |
| Pistachios                    | Southern<br>Europe,<br>Outdoor | <b>1,2,4-T:</b> 5 x <0.01, 0.026<br><b>TAA:</b> 4 x <0.01, 0.12, 0.15<br><b>TLA:</b> 0.039, 0.044, 0.091,<br>0.14, 1.6, 2.4<br><b>TA:</b> 0.58, 0.86, 1.1, 1.2,<br>28, 39         | See Table 3.2-2                                     | -                           | <b>1,2,4-T:</b><br>0.026<br><b>TAA:</b> 0.15<br><b>TLA:</b> 2.4<br><b>TA:</b> 39  | <b>1,2,4-T:</b> 0.01<br><b>TAA:</b> 0.01<br><b>TLA:</b> 0.116<br><b>TA:</b> 1.15  |
| Grape                         | Brazil,<br>Outdoor             | <b>1,2,4-T:</b> 8 x <0.01<br><b>TA:</b> 4 x <0.01, 0.014,<br>0.023, 0.043, 0.064<br><b>TAA:</b> 8 x <0.01<br><b>TLA:</b> 2 x < 0.01, 0.01<br>0.013, 0.015, 0.016, 0.058,<br>0.068 | See Table 3.2-2                                     | -                           | <b>1,2,4-T:</b> 0.01<br><b>TA:</b> 0.064<br><b>TAA:</b> 0.01<br><b>TLA:</b> 0.068 | <b>1,2,4-T:</b> 0.01<br><b>TA:</b> 0.012<br><b>TAA:</b> 0.01<br><b>TLA:</b> 0.014 |
| Table Olives                  | Southern<br>Europe,<br>Outdoor | <b>1,2,4 -T:</b> 7 x <0.01, 0.01<br><b>TA:</b> 0.25, 0.39, 0.42, 2x<br>0.6 0.61, 0.77, 0.87<br><b>TLA:</b> 6 x <0.01, 0.013,<br>0.021<br><b>TAA:</b> 8 x <0.01                    | See Table 3.2-2                                     | -                           | <b>1,2,4-T:</b> 0.01<br><b>TA:</b> 0.87<br><b>TLA:</b> 0.021<br><b>TAA:</b> 0.01  | <b>1,2,4-T:</b> 0.01<br><b>TA:</b> 0.6<br><b>TLA:</b> 0.01<br><b>TAA:</b> 0.01    |

| Commodity                                            | Region/<br>Indoor              | Residue levels (mg/kg)<br>observed in the trials<br>representative for the<br>intended GAPs<br>(a)                                                                                                                                                    | Recommendations/<br>comments<br>(OECD calculations) | MRL<br>proposals<br>(mg/kg) | HR<br>(mg/kg)<br>(b)                                  | STMR<br>(mg/kg)<br>(c)                               |
|------------------------------------------------------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------|-------------------------------------------------------|------------------------------------------------------|
| RD-RA2:<br>RD-RA3:<br>RD-RA4:                        | TA and TLA<br>TAA<br>1,2,4-T   |                                                                                                                                                                                                                                                       |                                                     |                             |                                                       |                                                      |
| Olives for Oil<br>production                         | Southern<br>Europe,<br>Outdoor | 1,2,4-T: 8 x <0.01<br>TA: 0.43, 0.44, 0.53, 0.63,<br>0.64, 0.74, 0.77, 0.80<br>TLA: 7 x <0.01, 0.011<br>TAA: 8 x <0.01                                                                                                                                | See Table 3.2-2                                     | -                           | 1,2,4-T: 0.01<br>TA: 0.80<br>TLA: 0.011<br>TAA: 0.01  | 1,2,4-T: 0.01<br>TA: 0.635<br>TLA: 0.01<br>TAA: 0.01 |
| Apples and<br>pears →<br>kaki/Japanese<br>persimmons | Southern<br>Europe,<br>Outdoor | Pears:<br>1,2,4-T: 4 x <0.01<br>TA: 0.064, 0.074, 0.12,<br>0.41<br>TAA: 3 x <0.01, 0.013<br>TLA: <0.01, 0.01, 2 x<br>0.013<br><br>Apples:<br>1,2,4-T: 4 x <0.01<br>TA: 0.013, 0.024, 0.030,<br>0.13<br>TAA: 3 x <0.01, 0.012<br>TLA: 3 x <0.01, 0.038 | See Table 3.2-2                                     | -                           | 1,2,4-T: 0.01<br>TA: 0.41<br>TAA: 0.013<br>TLA: 0.038 | 1,2,4-T: 0.01<br>TA: 0.069<br>TAA: 0.01<br>TLA: 0.01 |

| Commodity                                                                                  | Region/<br>Indoor              | Residue levels (mg/kg)<br>observed in the trials<br>representative for the<br>intended GAPs<br>(a)                                           | Recommendations/<br>comments<br>(OECD calculations) | MRL<br>proposals<br>(mg/kg) | HR<br>(mg/kg)<br>(b)                                                             | STMR<br>(mg/kg)<br>(c)                                                            |
|--------------------------------------------------------------------------------------------|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| RD-RA2:<br>RD-RA3:<br>RD-RA4:                                                              | TA and TLA<br>TAA<br>1,2,4-T   |                                                                                                                                              |                                                     |                             |                                                                                  |                                                                                   |
| Head Lettuce                                                                               | USA,<br>Outdoor                | <b>1,2,4-T:</b> 8 x <0.01<br><b>TAA:</b> 8 x <0.01<br><b>TA:</b> 7 x <0.01, 0.013<br><b>TLA:</b> 8 x <0.01                                   | See Table 3.2-2                                     | -                           | <b>1,2,4-T:</b> 0.01<br><b>TAA:</b> 0.01<br><b>TA:</b> 0.013<br><b>TLA:</b> 0.01 | <b>1,2,4-T:</b> 0.01<br><b>TAA:</b> 0.01<br><b>TA:</b> 0.01<br><b>TLA:</b> 0.01   |
| Spinach →<br>Roman<br>rocket/rucola,<br>edible flowers<br>and herbs,<br>baby leaf<br>crops | Southern<br>Europe,<br>Outdoor | <b>1,2,4-T:</b> 4 x <0.01<br><b>TA:</b> 2 x <0.01, 0.068,<br>0.051<br><b>TAA:</b> 4 x <0.01<br><b>TLA:</b> 2 x < 0.01, 0.054,<br>0.071       | See Table 3.2-2                                     | -                           | <b>1,2,4-T:</b> 0.01<br><b>TA:</b> 0.05<br><b>TAA:</b> 0.01<br><b>TLA:</b> 0.059 | <b>1,2,4-T:</b> 0.01<br><b>TA:</b> 0.029<br><b>TAA:</b> 0.01<br><b>TLA:</b> 0.032 |
| Beans<br>(without pods)                                                                    | Southern<br>Europe,<br>Outdoor | <b>1,2,4-T:</b> 8 x <0.01<br><b>TA:</b> 0.060, 0.11, 0.11,<br>0.12, 0.2, 0.24, 0.25, 0.49<br><b>TAA:</b> 8 x <0.01<br><b>TLA:</b> 8 x < 0.01 | See Table 3.2-2                                     | -                           | <b>1,2,4-T:</b> 0.01<br><b>TA:</b> 0.49<br><b>TAA:</b> 0.01<br><b>TLA:</b> 0.01  | <b>1,2,4-T:</b> 0.01<br><b>TA:</b> 0.135<br><b>TAA:</b> 0.01<br><b>TLA:</b> 0.01  |

| Commodity                                                 | Region/<br>Indoor              | Residue levels (mg/kg)<br>observed in the trials<br>representative for the<br>intended GAPs<br>(a)                                             | Recommendations/<br>comments<br>(OECD calculations) | MRL<br>proposals<br>(mg/kg) | HR<br>(mg/kg)<br>(b)                                                              | STMR<br>(mg/kg)<br>(c)                                                           |
|-----------------------------------------------------------|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| RD-RA2:<br>RD-RA3:<br>RD-RA4:                             | TA and TLA<br>TAA<br>1,2,4-T   |                                                                                                                                                |                                                     |                             |                                                                                   |                                                                                  |
|                                                           | Northern<br>Europe,<br>Outdoor | <b>1,2,4-T:</b> 8 x <0.01<br><b>TA:</b> 0.016, 0.062, 0.065,<br>0.11, 0.15, 0.18, 0.22, 0.39<br><b>TAA:</b> 8 x <0.01<br><b>TLA:</b> 8 x <0.01 |                                                     |                             |                                                                                   |                                                                                  |
| Celery →<br>Cardoons,<br>Florence<br>Fennels,<br>Rhubarbs | Southern<br>Europe,<br>Outdoor | <b>1,2,4-T:</b> 4 x <0.01<br><b>TA:</b> <0.01, 0.018, 0.021<br>0.033<br><b>TAA:</b> 4x <0.01<br><b>TLA:</b> 2 x <0.01, 0.016,<br>0.05          | See Table 3.2-2                                     | -                           | <b>1,2,4-T:</b> 0.01<br><b>TA:</b> 0.033<br><b>TAA:</b> 0.01<br><b>TLA:</b> 0.05  | <b>1,2,4-T:</b> 0.01<br><b>TA:</b> 0.020<br><b>TAA:</b> 0.01<br><b>TLA:</b> 0.01 |
| Globe<br>Artichoke                                        | Southern<br>Europe,<br>Outdoor | <b>1,2,4-T:</b> 4 x <0.01<br><b>TA:</b> 0.020, 0.031, 0.045,<br>0.063<br><b>TLA:</b> 3 x <0.01, 0.012<br><b>TAA:</b> 4 x <0.01                 | See Table 3.2-2                                     | -                           | <b>1,2,4-T:</b> 0.01<br><b>TA:</b> 0.063<br><b>TLA:</b> 0.012<br><b>TAA:</b> 0.01 | <b>1,2,4-T:</b> 0.01<br><b>TA:</b> 0.038<br><b>TLA:</b> 0.01<br><b>TAA:</b> 0.01 |

(a) Residue levels in trials conducted according to GAPs reported in ascending order. When residue definitions for enforcement and risk assessment differ, **Enf/RA** differentiate data expressed according to the residue definition for **Enforcement** and **Risk Assessment**.

- (b) **HR:** Highest residue, according to the residue for risk assessment, (within brackets when expressed according to the residue definition for enforcement:  $HR_{\text{Enf}}$ )
- (c) **STMR:** Supervised Trials Median Residue according to the residue definition risk assessment (within brackets when expressed according to the residue definition for enforcement:  $STMR_{\text{Enf}}$ )

### 3.3 Conversion factors for risk assessment for products of plant origin

As the residue definitions for enforcement (RD-Enf) and risk assessment 1 (RD-RA1) are equivalent (mefentrifluconazole), conversion factors (CFs) for enforcement to risk assessment are not required. Conversion factors are not relevant to the RD-RAs for TDMs.

### 3.4 Effect of industrial processing and/or household preparation

#### 3.4.1 Nature of the residues in processed commodities

Hydrolysis of mefentrifluconazole and TDMs under representative conditions of pasteurisation, baking, brewing, boiling and sterilisation was assessed for the approval of active substance (EFSA, 2018b).

A summary of the available hydrolysis data is presented in Table 3.4.1.

**Table 3.4.1 Overview of the available hydrolysis studies on mefentrifluconazole and TDMs**

| Conditions                                                | Mefentrifluconazole | 1,2,4-T | TA     | TAA    | TLA    |
|-----------------------------------------------------------|---------------------|---------|--------|--------|--------|
| <b>Pasteurisation</b> (20 minutes, 90°C, pH 4)            | 109.1%              | 103.5%  | 100.4% | 99.4%  | 102.6% |
| <b>Baking, boiling, brewing</b> (60 minutes, 100°C, pH 5) | 108.7%              | 104.0%  | 100.0% | 101.0% | 104.1% |
| <b>Sterilisation</b> (20 minutes, 120°C, pH 6)            | 105.6%              | 99.4%   | 99.8%  | 100.5% | 96.4%  |

The hydrolysis data demonstrates that mefentrifluconazole and TDMs are stable across the standard conditions, therefore specific residue definitions for processed commodities are not required.

#### 3.4.2 Magnitude of the residues in processed commodities

Processing studies on apple, corn, grape, plum, potatoes, soyabean, sugar beet (HSE, 2023), cabbage, peas, strawberry, tomato, cucumber and hops (HSE, 2026) have been previously submitted and evaluated.

The requirements for processing studies are listed in Table 3.4.2-1.

**Table 3.4.2-1 Overview of the requirements for processing studies**

| Commodity                   | Relevant processed fractions              | HR (mg/kg)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |       |      |         |
|-----------------------------|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|------|---------|
|                             |                                           | Mefentrifluconazole                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | TA   | TLA   | TAA  | 1,2,4-T |
| <b>Pistachios</b>           | Refined Oil                               | 0.024                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 39   | 2.4   | 0.15 | 0.026   |
|                             | (cat 1),<br>roasted/fried nut<br>(cat. 2) | <p>No data on refined oil. No data required for mefentrifluconazole and 1,2,4-T as residues &lt;0.1 mg/kg and contribute &lt;10% to the ADI and ARfD.</p> <p>For TA, TLA and TAA no data is available on pistachio refined oil. The OECD guidance states that oil production in tree nuts is a category 1 process. In principle data on pistachio oil would be required however as the active substance is stable upon hydrolysis, and pistachio oil consumption is low, it is not necessary to further refine the risk assessment.</p> <p>No data on roasted/fried nuts, however this is a category 2 process and not essential for the risk assessment.</p> |      |       |      |         |
| <b>Beans (without pods)</b> | Cooked (cat 2), Canned (cat 2)            | 0.025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.49 | 0.01  | 0.01 | 0.01    |
|                             |                                           | <p>No data on canned and cooked however, these are category 2 processes and not essential for the risk assessment.</p> <p>No data required for mefentrifluconazole, TLA, TAA and 1,2,4-T as residues &lt;0.1 mg/kg and contribute &lt;10% to the ADI and ARfD.</p>                                                                                                                                                                                                                                                                                                                                                                                            |      |       |      |         |
| <b>Spinach</b>              | Cooked (cat 2), Canned (cat 2)            | 3.60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.05 | 0.059 | 0.01 | 0.01    |
|                             |                                           | <p>No data on canned and cooked however, these are category 2 processes and not essential for the risk assessment.</p> <p>No data required for TA, TLA, TAA and 1,2,4-T as residues &lt;0.1 mg/kg and contribute &lt;10% to the ADI and ARfD.</p>                                                                                                                                                                                                                                                                                                                                                                                                             |      |       |      |         |

| Commodity                       | Relevant processed fractions                                                                                                   | HR (mg/kg)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |       |      |         |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|------|---------|
|                                 |                                                                                                                                | Mefentrifluconazole                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | TA    | TLA   | TAA  | 1,2,4-T |
| <b>Herbs and edible flowers</b> | Dried leaves (cat 2)                                                                                                           | 3.60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.05  | 0.059 | 0.01 | 0.01    |
|                                 |                                                                                                                                | <p>No data on dried leaves however this is a category 2 process and not essential for the risk assessment.</p> <p>No data required for TA, TLA, TAA and 1,2,4-T as residues &lt;0.1 mg/kg and contribute &lt;10% to the ADI and ARfD.</p>                                                                                                                                                                                                                                                                                                                                                                       |       |       |      |         |
| <b>Grapes</b>                   | Wine (cat 1), must (cat 1), juice (cat 1), wet pomace (cat 1), oil (cat 1), raisin (cat 2), canned (cat 2), jam/jelly (cat 2). | 0.86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.064 | 0.068 | 0.01 | 0.01    |
|                                 |                                                                                                                                | <p>From a previous MRL evaluation (HSE, 2023) data is available for mefentrifluconazole for all relevant cat 1 processed fractions except oil. In principle data on grape oil would be required however as the active substance is stable upon hydrolysis, and grape oil consumption is low, it is not necessary to further refine the risk assessment.</p> <p>No data required for TA, TLA, TAA and 1,2,4-T as residues &lt;0.1 mg/kg and contribute &lt;10% to the ADI and ARfD.</p> <p>No data on canned and jam/jelly however these are category 2 processes and not essential for the risk assessment.</p> |       |       |      |         |
| <b>Celery</b>                   | Juice (cat 1)<br>cooked (cat 2)                                                                                                | 1.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.033 | 0.05  | 0.01 | 0.01    |
|                                 |                                                                                                                                | <p>Data is available in a previous MRL application (HSE, 2026) for mefentrifluconazole on tomato juice which can be extrapolated to celery juice.</p> <p>No data on cooked however this is a category 2 process and not essential for the risk assessment.</p>                                                                                                                                                                                                                                                                                                                                                  |       |       |      |         |

| Commodity                                                    | Relevant processed fractions                  | HR (mg/kg)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |       |       |         |
|--------------------------------------------------------------|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|---------|
|                                                              |                                               | Mefentrifluconazole                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | TA    | TLA   | TAA   | 1,2,4-T |
|                                                              |                                               | No data required for TA, TLA, TAA and 1,2,4-T as residues <0.1 mg/kg and contribute <10% to the ADI and ARfD.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |       |       |         |
| <b>Cardoons, Florence fennels, globe artichoke, rhubarb,</b> | Cooked (cat 2)                                | 1.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.033 | 0.05  | 0.01  | 0.01    |
|                                                              |                                               | No data on cooked however this is a category 2 process and not essential for the risk assessment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |       |       |         |
|                                                              |                                               | No data required for TA, TLA, TAA and 1,2,4-T as residues <0.1 mg/kg and contribute <10% to the ADI and ARfD.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |       |       |         |
| <b>Kaki/Japanese persimmons</b>                              | Canned (cat 2), juice (cat 1), dried (cat 2). | 0.11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.41  | 0.038 | 0.013 | 0.01    |
|                                                              |                                               | <p>Data is available in a previous MRL application (HSE, 2023) for mefentrifluconazole and TA on apple for all relevant processed fractions (except dried).</p> <p>It should be noted that processing data on apple is not strictly extrapolatable to kaki/Japanese persimmons. However, in this case, given that apples are deemed sufficiently similar to kaki/Japanese persimmons for extrapolation of residue field trials, it is considered acceptable to use the available apple data to support the processing of kaki/Japanese persimmons. Also, as the active substance is stable upon hydrolysis, and kaki/Japanese persimmons consumption is low, it is not necessary to further refine the risk assessment.</p> <p>No data on dried kaki/Japanese persimmons however this is a category 2 process and not essential for the risk assessment.</p> |       |       |       |         |

| Commodity                   | Relevant processed fractions                                           | HR (mg/kg)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |       |      |         |
|-----------------------------|------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|------|---------|
|                             |                                                                        | Mefentrifluconazole                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | TA   | TLA   | TAA  | 1,2,4-T |
|                             |                                                                        | No data required for TLA, TAA and 1,2,4-T as residues <0.1 mg/kg and contribute <10% to the ADI and ARfD.                                                                                                                                                                                                                                                                                                                                                                                                                 |      |       |      |         |
| Olives (for oil production) | Crude oil (cat 1),                                                     | 1.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.80 | 0.011 | 0.01 | 0.01    |
|                             | refined oil (cat 1), solvent-extraction/pressing: meal or cake (cat 1) | <p>Newly submitted tentative data available for mefentrifluconazole and TA for all relevant processed fractions.</p> <p>No data available for TLA as residues at or above LOQ were not present in RAC samples from processing studies. However, as TLA residues are only slightly greater than the &lt;0.1 mg/kg trigger and contribute &lt;10% to the ADI and ARfD, this is considered acceptable.</p> <p>No data required for TAA and 1,2,4-T as residues &lt;0.1 mg/kg and contribute &lt;10% to the ADI and ARfD.</p> |      |       |      |         |

A new processing study on olives has been assessed under this application and the relevant processing factors are included in Table 3.4.2-2. It should be noted that processing factors for TLA and TAA have not been calculated as residues at or above LOQ were not present in RAC samples.

**Table 3.4.2-2 Overview of the available processing studies**

| Crop<br>(RAC)            | Process<br>ed<br>product | Number<br>of<br>trials | Processing factor<br>(Pf) |                    | CF  |
|--------------------------|--------------------------|------------------------|---------------------------|--------------------|-----|
|                          |                          |                        | Individual<br>values      | Median Pf          |     |
| Mefentrifluc-<br>onazole |                          |                        |                           |                    |     |
| Olives                   | Refined<br>Oil           | 3                      | 0.019,<br>0.010, 0.019    | 0.019 <sup>†</sup> | N/A |
|                          | Wet<br>Pomace            | 3                      | 1.06, 0.85,<br>1.03       | 1.03 <sup>†</sup>  | N/A |
|                          | Dried<br>Pomace          | 3                      | 2.38, 1.50,<br>2.09       | 2.09 <sup>†</sup>  | N/A |

| Crop<br>(RAC)  | Process<br>ed<br>product | Number<br>of<br>trials | Processing factor<br>(Pf) |                    | CF  |
|----------------|--------------------------|------------------------|---------------------------|--------------------|-----|
|                |                          |                        | Individual<br>values      | Median Pf          |     |
|                | Oil (Cold Pressed)       | 3                      | 1.88, 1.41, 1.54          | 1.54 <sup>†</sup>  | N/A |
|                | Press cake               | 3                      | 2.06, 1.29, 1.54          | 1.54 <sup>†</sup>  | N/A |
|                | Raw Oil                  | 3                      | 4.50, 4.51, 2.85          | 4.50 <sup>†</sup>  | N/A |
|                | Ferment ed Olives        | 3                      | 0.94, 0.85, 1.08          | 0.94 <sup>†</sup>  | N/A |
| <b>1,2,4-T</b> |                          |                        |                           |                    |     |
| Olives         | Refined Oil              | 3                      | <0.77, <0.71              | <0.74 <sup>†</sup> | N/A |
|                | Wet Pomace               | 3                      | <0.77, 0.79               | 0.78 <sup>†</sup>  | N/A |
|                | Dried Pomace             | 3                      | 1.54, <0.71               | 1.13 <sup>†</sup>  | N/A |
|                | Oil (Cold Pressed)       | 3                      | <0.77, <0.71              | <0.74 <sup>†</sup> | N/A |
|                | Press cake               | 3                      | <0.77, 0.86               | 0.82 <sup>†</sup>  | N/A |
|                | Raw Oil                  | 3                      | <0.77, <0.71              | <0.74 <sup>†</sup> | N/A |
|                | Ferment ed olives        | 3                      | -                         | -                  | -   |
| <b>TA</b>      |                          |                        |                           |                    |     |
| Olives         | Refined Oil              | 3                      | <0.06, <0.19              | <0.13 <sup>†</sup> | N/A |
|                | Wet Pomace               | 3                      | 0.67, 3.40                | 2.04 <sup>†</sup>  | N/A |
|                | Dried Pomace             | 3                      | 1, 1.23                   | 1.12 <sup>†</sup>  | N/A |
|                | Oil (Cold Pressed)       | 3                      | 1 <sup>§</sup> , <0.19    | <0.60 <sup>†</sup> | N/A |
|                | Press cake               | 3                      | 0.54 <sup>§</sup> , 1.74  | 1.14 <sup>†</sup>  | N/A |
|                | Raw Oil                  | 3                      | <0.06, <0.19              | <0.13 <sup>†</sup> | N/A |
|                | Ferment ed olives        | 3                      | 0.11, 0.04                | 0.08 <sup>†</sup>  | N/A |

CF = conversion factor

† Tentative Pfs due to selection of RAC (as explained below), or derived from only one trial or two trials with  $\geq 50\%$  difference between individual Pfs

§ Pf derived from residues obtained from the untreated processed sample as higher than the residues from the treated processed sample; this is acceptable as it relates to a TDM and untreated control samples can contain higher TDM levels owing to previous treatments with triazole pesticide.

As outlined in the study evaluation in Appendix C analytical results are reported for mefentrifluconazole and TDM residues in olives sampled from the trials at 0 and 21 DALA. In addition, the olives were analysed for mefentrifluconazole and TDM residues prior to being processed. The following results were obtained for mefentrifluconazole residues:

0 DALA: 2.7, 6.3, 3.3 mg/kg

21 DALA: 2.8, 6.6 and 2.1 mg/kg

Olives to be processed: 0.99, 1.6 and 2.5 mg/kg

Following washing with water: 6, 3.4 and 0.91 mg/kg

It is noted that the mefentrifluconazole residues reported in the olive (fruit with stones, 21 DALA) sampled directly before the start of processing were significantly lower for two of the three trials compared to the residues reported after the subsequent washing of the olive fruits (washed olives). It would be expected that residues after washing would be lower or similar to the residues prior to washing due to the removal of surface residues. An explanation for the results observed is not available in the study report and there is uncertainty in the Pfs calculated. For this reason the Pfs can only be regarded as tentative at this stage. However, as mefentrifluconazole is stable on processing, only a dilution and concentration effect is observed and the Pfs are not currently required to refine the consumer risk assessment. Further processing data may be required for olives in the future.

Owing to the results observed, the residue levels reported prior to processing have not been used to calculate the Pfs. The residues reported after washing are comparable to the residue levels found at 0 and 21 DALA and hence the values reported after washing were used to calculate the Pfs, but as outlined above the Pfs are tentative only.

The available processing data is sufficient to support the notified uses.

As all processing factors in Table 3.4.2-2 are considered tentative, their inclusion in Part 6 of the GB MRL Statutory Register is not recommended.

### **3.5 Rotational crops**

No consideration of rotational crops was made as the impact of residues in rotational crops on the import tolerances was not required as the exporting jurisdictions set MRLs without a contribution of residues arising in rotational crops.

## **4 Residues in livestock**

No consideration of residues in products of animal origin is required as the crops are not used as animal feedstuffs.

## 5 Literature data

Mefentrifluconazole is an approved active substance in GB, therefore no further consideration of the literature data is required in this assessment.

## 6 Residues in honey

Not applicable to import tolerances where no MRLs for the import of honey have been requested.

## **7 MRLs for products not covered in Sections 3 and 4**

This section is to cover MRLs that can be extrapolated to other products included in Part 1 of the GB MRL Statutory Register but are not covered in Sections 3 and 4 of this ER/RO. Examples include MRLs for edible offals (other than liver and kidney) or MRLs to cover products derived from other species such as goat or equine.

No MRL extrapolations are recommended on the basis of this assessment.

## 8 Consumer risk assessment

### 8.1 Dietary exposure

Dietary exposures have been estimated using the UK chronic and acute models and the EFSA PRIMo.

#### UK NEDIs and NESTIs

The UK NEDIs and NESTIs for the active substance and commodities listed in Table 8.1-1 have been estimated for ten consumer groups using the UK chronic and acute models (versions 1.1 and 1.2 respectively) as detailed in Regulatory Update 21/2005. The following assumptions have been made:

- For the NESTIs, upper range of normal (97.5th percentile) consumption of each individual crop which may have been treated.
- For the NEDIs, the 'Rees-Day' approach is taken which sums the two highest 97.5th percentile intakes and the mean intakes for all remaining commodities.
- All produce eaten which may have been treated has been treated and contains residues at the levels given in Table 8.1-1.
- There is no loss of residue during transport, storage or processing of foods prior to consumption.

#### Mefentrifluconazole

The input values for the UK risk assessment for mefentrifluconazole for this evaluation are given in Table 8.1-1.

**Table 8.1-1 Input values for the UK consumer risk assessment (mefentrifluconazole)**

| Commodity                      | Chronic risk assessment |                   | Acute risk assessment |                                                                              |
|--------------------------------|-------------------------|-------------------|-----------------------|------------------------------------------------------------------------------|
|                                | Input (mg/kg)           | Comment           | Input (mg/kg)         | Comment                                                                      |
| <b>Risk assessment residue</b> | <b>definition:</b>      |                   |                       |                                                                              |
| <b>Mefentrifluconazole</b>     |                         |                   |                       |                                                                              |
| Grapefruit                     | 0.16                    | STMR (HSE, 2025b) | -                     | Acute risk assessment undertaken only for the uses considered as part of the |
| Lemons                         | 0.37                    | STMR (HSE, 2025b) |                       |                                                                              |

|                   |              |                                                                                                  |              |                                                                                                 |
|-------------------|--------------|--------------------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------------------|
|                   |              |                                                                                                  |              | current assessment                                                                              |
| Limes             | 0.37         | STMR (HSE, 2025b)                                                                                |              |                                                                                                 |
| Mandarins         | 0.37         | STMR (HSE, 2025b)                                                                                |              |                                                                                                 |
| Oranges           | 0.215        | STMR (HSE, 2025b)                                                                                |              |                                                                                                 |
| Almonds           | 0.01*        | MRL <sup>†</sup>                                                                                 |              |                                                                                                 |
| Brazil nuts       | 0.01*        | MRL <sup>†</sup>                                                                                 |              |                                                                                                 |
| Cashew nuts       | 0.01*        | MRL <sup>†</sup>                                                                                 |              |                                                                                                 |
| Chestnuts         | 0.01*        | MRL <sup>†</sup>                                                                                 |              |                                                                                                 |
| Coconuts          | 0.01*        | MRL <sup>†</sup>                                                                                 |              |                                                                                                 |
| Hazelnuts         | 0.01*        | MRL <sup>†</sup>                                                                                 |              |                                                                                                 |
| Pecan nuts        | 0.01*        | MRL <sup>†</sup>                                                                                 |              |                                                                                                 |
| <b>Pistachios</b> | <b>0.017</b> | <b>STMR (current assessment)</b>                                                                 | <b>0.024</b> | <b>HR (current assessment)</b>                                                                  |
| Walnuts           | 0.01*        | MRL <sup>†</sup>                                                                                 | -            | Acute risk assessment undertaken only for the uses considered as part of the current assessment |
| Peanuts           | 0.01*        | MRL <sup>†</sup>                                                                                 |              |                                                                                                 |
| <b>Pears</b>      | <b>0.072</b> | <b>Apples and pears STMR (current assessment) used as surrogate for kaki/Japanese persimmons</b> | <b>0.11</b>  | <b>Apple and pear HR (current assessment) used as surrogate for kaki/Japanese persimmons</b>    |
| <b>Apples</b>     | <b>0.072</b> | <b>Apple and pear STMR (current assessment) used as surrogate</b>                                | <b>0.11</b>  | <b>Apple and pear HR (current assessment) used as surrogate for</b>                             |

|                     |              | <b>for<br/>kaki/Japanese<br/>persimmons</b>                     |             | <b>kaki/Japanese<br/>persimmons</b>                                                                                  |
|---------------------|--------------|-----------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------|
| Apricots            | 0.7          | MRL <sup>†</sup>                                                | -           | Acute risk<br>assessment<br>undertaken only<br>for the<br>uses considered<br>as part of the<br>current<br>assessment |
| Peaches             | 0.7          | MRL <sup>†</sup>                                                |             |                                                                                                                      |
| Plums               | 0.5          | MRL <sup>†</sup>                                                |             |                                                                                                                      |
| Cherries            | 2.0          | MRL <sup>†</sup>                                                |             |                                                                                                                      |
| <b>Table grapes</b> | <b>0.375</b> | <b>STMR<br/>(current<br/>assessment)</b>                        | <b>0.86</b> | <b>HR (current<br/>assessment)</b>                                                                                   |
| <b>Wine Grapes</b>  | <b>0.375</b> | <b>STMR<br/>(current<br/>assessment)</b>                        | <b>0.86</b> | <b>HR (current<br/>assessment)</b>                                                                                   |
| Strawberries        | 0.19         | Strawberry<br>outdoor<br>STMR (HSE,<br>2026)                    | -           | Acute risk<br>assessment<br>undertaken only<br>for the uses<br>considered as<br>part of the<br>current<br>assessment |
| Blackberries        | 0.605        | Surrogate for<br>blueberries.<br>Currant<br>STMR (HSE,<br>2026) |             |                                                                                                                      |
| Loganberries        | 0.01*        | MRL <sup>†</sup>                                                |             |                                                                                                                      |
| Raspberries         | 0.605        | Surrogate for<br>blueberries.<br>Currant<br>STMR (HSE,<br>2026) |             |                                                                                                                      |
| Gooseberries        | 0.01*        | MRL <sup>†</sup>                                                |             |                                                                                                                      |
| Blackcurrants       | 2.0          | MRL <sup>†</sup>                                                |             |                                                                                                                      |
| Red currants        | 2.0          | MRL <sup>†</sup>                                                |             |                                                                                                                      |
| White currants      | 2.0          | MRL <sup>†</sup>                                                |             |                                                                                                                      |
| Avocados            | 0.36         | Avocado<br>STMR (HSE,<br>2025b)                                 |             |                                                                                                                      |

|                      |              |                                                 |            |                                                                                                 |
|----------------------|--------------|-------------------------------------------------|------------|-------------------------------------------------------------------------------------------------|
| Bananas              | 0.055        | Banana STMR (HSE, 2025b)                        |            |                                                                                                 |
| Dates                | 0.01*        | MRL <sup>†</sup>                                |            |                                                                                                 |
| Figs                 | 0.01*        | MRL <sup>†</sup>                                |            |                                                                                                 |
| Kiwi fruit           | 0.01*        | MRL <sup>†</sup>                                |            |                                                                                                 |
| Lychees              | 0.01*        | MRL <sup>†</sup>                                |            |                                                                                                 |
| Mangoes              | 0.01*        | MRL <sup>†</sup>                                |            |                                                                                                 |
| <b>Olives</b>        | <b>0.525</b> | <b>STMR (Table Olives) (current assessment)</b> | <b>1.4</b> | <b>HR (Olives for oil production) (current assessment)</b>                                      |
| Passion fruit        | 0.01*        | MRL <sup>†</sup>                                | -          | Acute risk assessment undertaken only for the uses considered as part of the current assessment |
| Pineapples           | 0.01*        | MRL <sup>†</sup>                                |            |                                                                                                 |
| Pomegranates         | 0.01*        | MRL <sup>†</sup>                                |            |                                                                                                 |
| Beetroot             | 0.017        | Carrot STMR (HSE, 2026)                         |            |                                                                                                 |
| Carrots              | 0.017        | Carrot STMR (HSE, 2026)                         |            |                                                                                                 |
| Celeriac             | 0.017        | Carrot STMR (HSE, 2026)                         |            |                                                                                                 |
| Horseradish          | 0.017        | Carrot STMR (HSE, 2026)                         |            |                                                                                                 |
| Jerusalem artichokes | 0.017        | Carrot STMR (HSE, 2026)                         |            |                                                                                                 |
| Parsnips             | 0.017        | Carrot STMR (HSE, 2026)                         |            |                                                                                                 |
| Radishes             | 0.017        | Carrot STMR (HSE, 2026)                         |            |                                                                                                 |
| Salsify              | 0.017        | Carrot STMR (HSE, 2026)                         |            |                                                                                                 |
| Swedes               | 0.017        | Carrot STMR (HSE, 2026)                         |            |                                                                                                 |
| Turnips              | 0.017        | Carrot STMR (HSE, 2026)                         |            |                                                                                                 |

|               |       |                                                             |
|---------------|-------|-------------------------------------------------------------|
| Yam           | 0.01* | MRL <sup>†</sup>                                            |
| Garlic        | 0.01* | MRL <sup>†</sup>                                            |
| Onions        | 0.01* | MRL <sup>†</sup>                                            |
| Spring onions | 0.01* | MRL <sup>†</sup>                                            |
| Tomatoes      | 0.115 | Tomato<br>STMR (HSE,<br>2026)                               |
| Peppers       | 0.01* | MRL <sup>†</sup>                                            |
| Aubergines    | 0.115 | Tomato<br>STMR (HSE,<br>2026)                               |
| Marrows       | 0.027 | Cucumber &<br>courgette<br>protected<br>STMR (HSE,<br>2026) |
| Cucumbers     | 0.027 | Cucumber &<br>courgette<br>protected<br>STMR (HSE,<br>2026) |
| Gourd         | 0.027 | Cucumber &<br>courgette<br>protected<br>STMR (HSE,<br>2026) |
| Courgettes    | 0.027 | Cucumber &<br>courgette<br>protected<br>STMR (HSE,<br>2026) |
| Melons        | 0.01* | MRL <sup>†</sup>                                            |
| Sweet corn    | 0.01* | MRL <sup>†</sup>                                            |
| Broccoli      | 0.027 | Cauliflower &<br>broccoli<br>STMR (HSE,<br>2026)            |
| Cauliflower   | 0.027 | Cauliflower &<br>broccoli<br>STMR (HSE,<br>2026)            |

|                  |             |                                                                                         |             |                                                                                                 |
|------------------|-------------|-----------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------|
| Brussels sprouts | 0.068       | Brussels sprout STMR (HSE, 2026)                                                        |             |                                                                                                 |
| Head cabbage     | 0.011       | Head cabbage STMR (HSE, 2025b)                                                          |             |                                                                                                 |
| Chinese cabbage  | 0.01*       | MRL <sup>†</sup>                                                                        |             |                                                                                                 |
| Kohl Rabi        | 0.01*       | MRL <sup>†</sup>                                                                        |             |                                                                                                 |
| Cress            | 0.01*       | MRL <sup>†</sup>                                                                        |             |                                                                                                 |
| <b>Lettuce</b>   | <b>1.08</b> | <b>STMR (current assessment)</b>                                                        | <b>2.15</b> | <b>HR (current assessment)</b>                                                                  |
| <b>Spinach</b>   | <b>2.45</b> | <b>STMR (current assessment)</b>                                                        | <b>3.6</b>  | <b>HR (current assessment)</b>                                                                  |
| Watercress       | 0.01*       | MRL <sup>†</sup>                                                                        | -           | Acute risk assessment undertaken only for the uses considered as part of the current assessment |
| Chicory          | 0.01*       | MRL <sup>†</sup>                                                                        |             |                                                                                                 |
| <b>Parsley</b>   | <b>2.45</b> | <b>Spinach STMR (current assessment) used as surrogate for herbs and edible flowers</b> | <b>3.6</b>  | <b>Spinach HR (current assessment) used as surrogate for herbs and edible flowers</b>           |
| Beans with pods  | 0.01*       | MRL <sup>†</sup>                                                                        | -           | Acute risk assessment undertaken only for the uses considered as part of the current assessment |
| Runner beans     | 0.01*       | MRL <sup>†</sup>                                                                        |             |                                                                                                 |

|                           |              |                                            |              |                                                                                                                      |
|---------------------------|--------------|--------------------------------------------|--------------|----------------------------------------------------------------------------------------------------------------------|
| <b>Beans without pods</b> | <b>0.01</b>  | <b>STMR<br/>(current<br/>assessment)</b>   | <b>0.025</b> | <b>HR (current<br/>assessment)</b>                                                                                   |
| Peas with pods            | 0.01*        | MRL <sup>†</sup>                           | -            | Acute risk<br>assessment<br>undertaken only<br>for the uses<br>considered as<br>part of the<br>current<br>assessment |
| Peas without pods         | 0.01         | Peas (without<br>pods) STMR<br>(HSE, 2026) |              |                                                                                                                      |
| Beansprouts               | 0.01*        | MRL <sup>†</sup>                           |              |                                                                                                                      |
| Asparagus                 | 0.01*        | MRL <sup>†</sup>                           |              |                                                                                                                      |
| Bamboo shoots             | 0.01*        | MRL <sup>†</sup>                           |              |                                                                                                                      |
| <b>Celery</b>             | <b>0.6</b>   | <b>STMR<br/>(current<br/>assessment)</b>   | <b>1.5</b>   | <b>HR (current<br/>assessment)</b>                                                                                   |
| <b>Fennel</b>             | <b>0.6</b>   | <b>STMR<br/>(current<br/>assessment)</b>   | <b>1.5</b>   | <b>HR (current<br/>assessment)</b>                                                                                   |
| <b>Globe artichokes</b>   | <b>0.250</b> | <b>STMR<br/>(current<br/>assessment)</b>   | <b>0.310</b> | <b>HR (current<br/>assessment)</b>                                                                                   |
| Leeks                     | 0.01*        | MRL <sup>†</sup>                           | -            | Acute risk<br>assessment<br>undertaken only<br>for the uses<br>considered as<br>part of the<br>current<br>assessment |
| <b>Rhubarb</b>            | <b>0.6</b>   | <b>STMR<br/>(current<br/>assessment)</b>   |              |                                                                                                                      |
| Cultivated<br>mushrooms   | 0.01*        | MRL <sup>†</sup>                           | -            | Acute risk<br>assessment<br>undertaken only<br>for the uses<br>considered as<br>part of the<br>current<br>assessment |
| Beans                     | 0.01         | Peas (dry)<br>STMR (HSE,<br>2026)          |              |                                                                                                                      |

|                               |       |                                                 |
|-------------------------------|-------|-------------------------------------------------|
| Lentils                       | 0.01  | Peas (dry)<br>STM <sup>†</sup> (HSE,<br>2026)   |
| Dried Peas                    | 0.01  | Peas (dry)<br>STM <sup>†</sup> (HSE,<br>2026)   |
| Oilseeds                      | 0.06  | MRL <sup>†</sup>                                |
| Potatoes                      | 0.01* | MRL <sup>†</sup>                                |
| Hops (dried 0.25% of<br>beer) | 4.5   | Hops STM <sup>†</sup><br>(COP<br>2023/01803)    |
| Oats                          | 0.6   | MRL <sup>†</sup>                                |
| Barley                        | 0.6   | MRL <sup>†</sup>                                |
| Millet                        | 0.01* | MRL <sup>†</sup>                                |
| Buckwheat                     | 0.01* | MRL <sup>†</sup>                                |
| Maize                         | 0.01* | MRL <sup>†</sup>                                |
| Wheat                         | 0.05  | MRL <sup>†</sup>                                |
| Rice                          | 0.01* | MRL <sup>†</sup>                                |
| Rye                           | 0.05  | MRL <sup>†</sup>                                |
| Poultry                       | 0.22  | Poultry fat<br>STM <sup>†</sup> (HSE,<br>2026)  |
| Meat fat                      | 0.22  | Poultry fat<br>STM <sup>†</sup> (HSE,<br>2026)  |
| Meat excl. poultry &<br>offal | 0.4   | Sheep fat<br>MRL <sup>†</sup>                   |
| All types of kidney           | 0.3   | Sheep kidney<br>MRL <sup>†</sup>                |
| All types of liver            | 0.7   | Sheep liver<br>MRL <sup>†</sup>                 |
| Other types of offal          | 0.7   | Sheep liver<br>MRL <sup>†</sup>                 |
| Eggs                          | 0.04  | Chicken eggs<br>STM <sup>†</sup> (HSE,<br>2026) |
| Milk                          | 0.03  | MRL <sup>†</sup>                                |
| Sugar beet                    | 0.06  | MRL <sup>†</sup>                                |

<sup>†</sup> GB MRL Statutory Register GB MRL 2025/006

In **bold** uses considered as part of the current assessment.

Model outputs for the UK chronic and acute models (versions 1.1 and 1.2 respectively) are presented in Appendix B.

## **TDMs**

Consumer exposure estimates for TDMs were derived in the TDM Review (UK, 2018a). The STMRs and HRs for the notified uses have been compared to those considered in the TDM Review (UK, 2018a) and previous HSE evaluations of TDMs arising from GB uses, import tolerances and adoption of CXLs. It should be noted that no consideration of pistachio, kaki/Japanese persimmons and table olive consumption was made in the TDM Review (UK, 2018a). Therefore, exposure estimates for TDMs arising from consumption of these commodities have been considered for all TDMs. Apple and pear are used as surrogates for kaki/Japanese persimmons intake in the UK model, therefore for the UK model the STMR and HR values for the notified use on kaki/Japanese persimmons have been compared to the apple and pear values used in the TDM Review (UK, 2018a). Similarly, the UK model does not include a specific table olive input therefore for the UK model the STMR and HR values for the notified use on table olives have been compared to the olive for oil production values used in the TDM Review (UK, 2018a).

The STMR value for TA in beans (without pods) arising from the notified use is higher than the STMR value for this commodity in the TDM Review (UK, 2018a). Therefore, a chronic consumer risk assessment for TA intake has been performed for this commodity, in addition to pistachio, kaki/Japanese persimmons (apple and pear used as surrogates) and table olive. Inputs for all other commodities were taken from the TDM Review (UK, 2018a) or a previous evaluation of TA, whichever is highest.

The STMR values for 1,2,4-T, TLA and TAA arising from the notified uses are the same as, or below, the STMR values from the TDM Review (UK, 2018a) or a previous evaluation of TDMs. Therefore, the chronic consumer risk assessments for 1,2,4-T, TLA and TAA based on the notified uses have been performed for pistachio, kaki/Japanese persimmons (apple and pear used as surrogates) and table olive as no consideration of their consumption was made in the TDM Review (UK, 2018a). Inputs for all other commodities were taken from the TDM Review (UK, 2018a) or a previous evaluation of TDMs, whichever is highest.

The HR value for TLA in celeries, cardoons, Florence fennels and rhubarb arising from the notified use is higher than the HR value for these commodities in the TDM Review (UK, 2018a). Therefore, an acute consumer risk assessment for TLA intake has been performed for these commodities as well as pistachio, kaki/Japanese persimmons (apple and pear used as surrogates) and table olive as no consideration of their consumption was made in the TDM Review (UK, 2018a).

The HR values for 1,2,4-T, TA and TAA arising from the notified uses are the same as, or below, the HR values from the TDM Review (UK, 2018a) or a previous evaluation of

TDMs. Therefore, an acute consumer risk assessment for 1,2,4-T, TA and TAA intake has been performed for pistachio, kaki/Japanese persimmons (apple and pear used as surrogates for the UK model) and table olive only, as no consideration of their consumption was made in the TDM Review (UK, 2018a).

The input values for the UK consumer risk assessment for TDMs for this assessment are given in Table 8.1-2.

**Table 8.1-2 Input values for the UK consumer risk assessment (TDMs)**

| Commodity                 | Chronic risk assessment |                                                                          | Acute assessment risk |                                                                     |
|---------------------------|-------------------------|--------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------|
|                           | Input (mg/kg)           | Comment                                                                  | Input (mg/kg)         | Comment                                                             |
| <b>TA</b>                 |                         |                                                                          |                       |                                                                     |
| <b>Pistachios</b>         | <b>1.15</b>             | <b>STMR (current assessment)</b>                                         | <b>39</b>             | <b>HR (current assessment)</b>                                      |
| <b>Pears</b>              | <b>0.069</b>            | <b>STMR (current assessment, surrogate for kaki/Japanese persimmons)</b> | <b>-</b>              | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Apples</b>             | <b>0.069</b>            | <b>STMR (current assessment, surrogate for kaki/Japanese persimmons)</b> | <b>-</b>              | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Olives<sup>1</sup></b> | <b>STMR</b>             | <b>TDM Review (UK, 2018a)</b>                                            | <b>-</b>              | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Lettuce</b>            | <b>STMR</b>             | <b>TDM Review (UK, 2018a)</b>                                            | <b>-</b>              | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Spinach</b>            | <b>STMR</b>             | <b>TDM Review (UK, 2018a)</b>                                            | <b>-</b>              | <b>Not performed</b>                                                |

|                         |             |                               |   |                                                                     |
|-------------------------|-------------|-------------------------------|---|---------------------------------------------------------------------|
|                         |             |                               |   | as the TDM review (UK, 2018a) is more critical                      |
| <b>Celery</b>           | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | - | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Fennel</b>           | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | - | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Globe artichokes</b> | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | - | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Rhubarb</b>          | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | - | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Table grapes</b>     | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | - | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Wine Grapes</b>      | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | - | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Parsley</b>          | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | - | <b>Not performed</b>                                                |

|                            |       |                                                                       |     |                                                                                                 |
|----------------------------|-------|-----------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------------------|
|                            |       |                                                                       |     | as the TDM review (UK, 2018a) is more critical                                                  |
| Beans (without pods)       | 0.135 | STMR (current assessment)                                             | -   | Not performed as COP 2023/01157 is more critical                                                |
| Avocados                   | 0.029 | STMR (HSE, 2025b)                                                     | -   | Acute risk assessment undertaken only for the uses considered as part of the current assessment |
| Peas (without pods)        | 0.32  | Peas (without pods) STMR (HSE, 2026)                                  |     |                                                                                                 |
| Beans                      | 0.29  | Peas (dry) STMR (HSE, 2026)                                           |     |                                                                                                 |
| Lentils                    | 0.29  | Peas (dry) STMR (HSE, 2026)                                           |     |                                                                                                 |
| Dried Peas                 | 0.29  | Peas (dry) STMR (HSE, 2026)                                           |     |                                                                                                 |
| Hops (dried 0.25% of beer) | 0.455 | Hops STMR (HSE, 2026)                                                 |     |                                                                                                 |
| All other commodities      | STMR  | TDM Review (UK, 2018a)                                                |     |                                                                                                 |
| TLA                        |       |                                                                       |     |                                                                                                 |
| Pistachios                 | 0.116 | STMR (current assessment)                                             | 2.4 | HR (current assessment)                                                                         |
| Pears                      | STMR  | TDM Review (UK, 2018a) used as surrogate for kaki/Japanese persimmons | -   | Not performed as the TDM review (UK, 2018a) is more critical                                    |

|                           |             |                                                                              |             |                                                                     |
|---------------------------|-------------|------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------|
| <b>Apples</b>             | <b>STMR</b> | <b>TDM Review (UK, 2018a) used as surrogate for kaki/Japanese persimmons</b> | <b>-</b>    | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Olives<sup>1</sup></b> | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b>                                                | <b>-</b>    | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Lettuce</b>            | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b>                                                | <b>-</b>    | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Spinach</b>            | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b>                                                | <b>-</b>    | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Parsley</b>            | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b>                                                | <b>-</b>    | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Celery</b>             | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b>                                                | <b>0.05</b> | <b>HR (current assessment)</b>                                      |
| <b>Fennel</b>             | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b>                                                | <b>0.05</b> | <b>HR (current assessment)</b>                                      |
| <b>Globe artichokes</b>   | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b>                                                | <b>-</b>    | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Rhubarb</b>            | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b>                                                | <b>0.05</b> | <b>HR (current assessment)</b>                                      |

|                            |       |                            |   |                                                                                                 |
|----------------------------|-------|----------------------------|---|-------------------------------------------------------------------------------------------------|
| Table grapes               | STMR  | TDM Review (UK, 2018a)     | - | Not performed as the TDM review (UK, 2018a) is more critical                                    |
| Wine Grapes                | STMR  | TDM Review (UK, 2018a)     | - |                                                                                                 |
| Avocadoes                  | 0.028 | STMR (HSE, 2025b)          | - | Acute risk assessment undertaken only for the uses considered as part of the current assessment |
| Bananas                    | 0.01  | STMR (HSE, 2025b)          |   |                                                                                                 |
| Beans (with pods)          | 0.15  | STMR (COP 2023/01157)      |   |                                                                                                 |
| Beans (without pods)       | 0.26  | STMR (COP 2023/01157)      | - | Not performed as the TDM review (UK, 2018a) is more critical                                    |
| Peas (with pods)           | 0.15  | STMR (COP 2023/01157)      | - | Acute risk assessment undertaken only for the uses considered as part of the current assessment |
| Peas (without pods)        | 0.26  | STMR (COP 2023/01157)      |   |                                                                                                 |
| Beans                      | 0.235 | STMR (COP 2023/01157)      |   |                                                                                                 |
| Lentils                    | 0.235 | STMR (COP 2023/01157)      |   |                                                                                                 |
| Dried Peas                 | 0.235 | STMR (COP 2023/01157)      |   |                                                                                                 |
| Hops (dried 0.25% of beer) | 0.2   | Hops STMR (COP 2024/00093) |   |                                                                                                 |
| All other commodities      | STMR  | TDM Review (UK, 2018a)     |   |                                                                                                 |
| 1,2,4-T                    |       |                            |   |                                                                                                 |

|                           |             |                                  |              |                                                                     |
|---------------------------|-------------|----------------------------------|--------------|---------------------------------------------------------------------|
| <b>Pistachios</b>         | <b>0.01</b> | <b>STMR (current assessment)</b> | <b>0.026</b> | <b>HR (current assessment)</b>                                      |
| <b>Pears</b>              | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b>    | <b>-</b>     | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Apples</b>             | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b>    | <b>-</b>     | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Olives<sup>1</sup></b> | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b>    | <b>-</b>     | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Lettuce</b>            | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b>    | <b>-</b>     | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Spinach</b>            | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b>    | <b>-</b>     | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Parsley</b>            | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b>    | <b>-</b>     | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Celery</b>             | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b>    | <b>-</b>     | <b>Not performed as the TDM review (UK,</b>                         |

|                       |       |                        |   |                                                                                                 |
|-----------------------|-------|------------------------|---|-------------------------------------------------------------------------------------------------|
|                       |       |                        |   | 2018a) is more critical                                                                         |
| Fennel                | STMR  | TDM Review (UK, 2018a) | - | Not performed as the TDM review (UK, 2018a) is more critical                                    |
| Globe artichokes      | STMR  | TDM Review (UK, 2018a) | - | Not performed as the TDM review (UK, 2018a) is more critical                                    |
| Rhubarb               | STMR  | TDM Review (UK, 2018a) | - | Not performed as the TDM review (UK, 2018a) is more critical                                    |
| Table grapes          | STMR  | TDM Review (UK, 2018a) | - | Not performed as the TDM review (UK, 2018a) is more critical                                    |
| Wine Grapes           | STMR  | TDM Review (UK, 2018a) | - | Not performed as the TDM review (UK, 2018a) is more critical                                    |
| Avocados              | 0.01  | STMR (COP 2025/01110)  | - | Acute risk assessment undertaken only for the uses considered as part of the current assessment |
| Hops                  | 0.013 | STMR (HSE, 2026)       |   |                                                                                                 |
| All other commodities | STMR  | TDM Review (UK, 2018a) |   |                                                                                                 |
| TAA                   |       |                        |   |                                                                                                 |

|                           |             |                                  |             |                                                                     |
|---------------------------|-------------|----------------------------------|-------------|---------------------------------------------------------------------|
| <b>Pistachios</b>         | <b>0.01</b> | <b>STMR (Current assessment)</b> | <b>0.15</b> | <b>HR (Current Assessment)</b>                                      |
| <b>Pears</b>              | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b>    | <b>-</b>    | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Apples</b>             | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b>    | <b>-</b>    | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Olives<sup>1</sup></b> | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b>    | <b>-</b>    | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Lettuce</b>            | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b>    | <b>-</b>    | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Spinach</b>            | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b>    | <b>-</b>    | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Parsley</b>            | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b>    | <b>-</b>    | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Celery</b>             | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b>    | <b>-</b>    | <b>Not performed as the TDM review (UK,</b>                         |

|                            |             |                               |   |                                                                                                 |
|----------------------------|-------------|-------------------------------|---|-------------------------------------------------------------------------------------------------|
|                            |             |                               |   | <b>2018a) is more critical</b>                                                                  |
| <b>Fennel</b>              | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | - | <b>Not performed as the TDM review (UK, 2018a) is more critical</b>                             |
| <b>Globe artichokes</b>    | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | - | <b>Not performed as the TDM review (UK, 2018a) is more critical</b>                             |
| <b>Rhubarb</b>             | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | - | <b>Not performed as the TDM review (UK, 2018a) is more critical</b>                             |
| <b>Table grapes</b>        | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | - | <b>Not performed as the TDM review (UK, 2018a) is more critical</b>                             |
| <b>Wine Grapes</b>         | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | - | <b>Not performed as the TDM review (UK, 2018a) is more critical</b>                             |
| Avocados                   | 0.01        | STMR (HSE, 2025b)             | - | Acute risk assessment undertaken only for the uses considered as part of the current assessment |
| Oilseeds                   | 0.135       | STMR (CXLs CCPR 53)           |   |                                                                                                 |
| Hops (dried 0.25% of beer) | 0.012       | Hops STMR (HSE, 2026)         |   |                                                                                                 |
| All other commodities      | STMR        | TDM Review (UK, 2018a)        |   |                                                                                                 |

1: Input is the highest of table olive and olive for oil production.

Model outputs for the UK acute (version 1.2) and chronic (version 1.1) models are presented in Appendix B.

## PRIMo

The PRIMo IEDIs and IESTIs for the active substance and commodities listed in Table 8.1-3 and Table 8.1-4 have been calculated using PRIMo revision 3.1 – Pesticide Residues Intake Model.

The following assumptions have been made:

- All produce eaten which may have been treated, has been treated and contains residues at the levels as given below.
- There is no loss of residue during transport, storage or processing of foods prior to consumption

### Mefentrifluconazole

The input values from this assessment for the PRIMo risk assessment are given in Table 8.1-3.

**Table 8.1-3 Input values for PRIMo consumer risk assessment (mefentrifluconazole)**

| Commodity                        | Chronic risk assessment | Acute risk assessment            |               |                                |
|----------------------------------|-------------------------|----------------------------------|---------------|--------------------------------|
|                                  | Input (mg/kg)           | Comment                          | Input (mg/kg) | Comment                        |
| <b>Risk assessment residue</b>   | <b>definition:</b>      |                                  |               |                                |
| <b>Mefentrifluconazole</b>       |                         |                                  |               |                                |
| <b>Pistachios</b>                | <b>0.017</b>            | <b>STMR (current assessment)</b> | <b>0.024</b>  | <b>HR (current assessment)</b> |
| <b>Table Olives</b>              | <b>0.525</b>            | <b>STMR (current assessment)</b> | <b>0.880</b>  | <b>HR (current assessment)</b> |
| <b>Kaki/ Japanese Persimmons</b> | <b>0.072</b>            | <b>STMR (current assessment)</b> | <b>0.110</b>  | <b>HR (current assessment)</b> |
| <b>Lettuces</b>                  | <b>1.080</b>            | <b>STMR (current assessment)</b> | <b>2.150</b>  | <b>HR (current assessment)</b> |
| <b>Roman rocket/rucola</b>       | <b>2.450</b>            | <b>STMR (current assessment)</b> | <b>3.60</b>   | <b>HR (current assessment)</b> |
| <b>Baby leaf crops</b>           | <b>2.450</b>            | <b>STMR (current assessment)</b> | <b>3.60</b>   | <b>HR (current assessment)</b> |
| <b>Spinaches</b>                 | <b>2.450</b>            | <b>STMR (current assessment)</b> | <b>3.60</b>   | <b>HR (current assessment)</b> |
| <b>Herbs and edible flowers</b>  | <b>2.450</b>            | <b>STMR (current assessment)</b> | <b>3.60</b>   | <b>HR (current assessment)</b> |

|                                  |              |                                  |              |                                |
|----------------------------------|--------------|----------------------------------|--------------|--------------------------------|
| <b>Chervil</b>                   | <b>2.450</b> | <b>STMR (current assessment)</b> | <b>3.60</b>  | <b>HR (current assessment)</b> |
| <b>Table Grapes</b>              | <b>0.375</b> | <b>STMR (current assessment)</b> | <b>0.86</b>  | <b>HR (current assessment)</b> |
| <b>Wine Grapes</b>               | <b>0.375</b> | <b>STMR (current assessment)</b> | <b>0.86</b>  | <b>HR (current assessment)</b> |
| <b>Chives</b>                    | <b>2.450</b> | <b>STMR (current assessment)</b> | <b>3.60</b>  | <b>HR (current assessment)</b> |
| <b>Celery leaves</b>             | <b>2.450</b> | <b>STMR (current assessment)</b> | <b>3.60</b>  | <b>HR (current assessment)</b> |
| <b>Parsley</b>                   | <b>2.450</b> | <b>STMR (current assessment)</b> | <b>3.60</b>  | <b>HR (current assessment)</b> |
| <b>Sage</b>                      | <b>2.450</b> | <b>STMR (current assessment)</b> | <b>3.60</b>  | <b>HR (current assessment)</b> |
| <b>Rosemary</b>                  | <b>2.450</b> | <b>STMR (current assessment)</b> | <b>3.60</b>  | <b>HR (current assessment)</b> |
| <b>Thyme</b>                     | <b>2.450</b> | <b>STMR (current assessment)</b> | <b>3.60</b>  | <b>HR (current assessment)</b> |
| <b>Basil and edible flowers</b>  | <b>2.450</b> | <b>STMR (current assessment)</b> | <b>3.60</b>  | <b>HR (current assessment)</b> |
| <b>Laurel/bay leaves</b>         | <b>2.450</b> | <b>STMR (current assessment)</b> | <b>3.60</b>  | <b>HR (current assessment)</b> |
| <b>Tarragon</b>                  | <b>2.450</b> | <b>STMR (current assessment)</b> | <b>3.60</b>  | <b>HR (current assessment)</b> |
| <b>Beans (without pods)</b>      | <b>0.010</b> | <b>STMR (current assessment)</b> | <b>0.025</b> | <b>HR (current assessment)</b> |
| <b>Cardoons</b>                  | <b>0.600</b> | <b>STMR (current assessment)</b> | <b>1.50</b>  | <b>HR (current assessment)</b> |
| <b>Celeries</b>                  | <b>0.600</b> | <b>STMR (current assessment)</b> | <b>1.50</b>  | <b>HR (current assessment)</b> |
| <b>Florence fennels</b>          | <b>0.600</b> | <b>STMR (current assessment)</b> | <b>1.50</b>  | <b>HR (current assessment)</b> |
| <b>Globe artichokes</b>          | <b>0.250</b> | <b>STMR (current assessment)</b> | <b>0.310</b> | <b>HR (current assessment)</b> |
| <b>Rhubarbs</b>                  | <b>0.600</b> | <b>STMR (current assessment)</b> | <b>1.50</b>  | <b>HR (current assessment)</b> |
| <b>Olives for oil production</b> | <b>0.355</b> | <b>STMR (current assessment)</b> | <b>1.40</b>  | <b>HR (current assessment)</b> |
| <b>Grapefruit</b>                | <b>0.16</b>  | <b>STMR (HSE, 2025b)</b>         | <b>-</b>     | <b>Acute risk assessment</b>   |

|                                 |       |                              |
|---------------------------------|-------|------------------------------|
| Oranges                         | 0.215 | STMR (HSE, 2025b)            |
| Lemons                          | 0.37  | STMR (HSE, 2025b)            |
| Limes                           | 0.37  | STMR (HSE, 2025b)            |
| Mandarins                       | 0.37  | STMR (HSE, 2025)             |
| Strawberry                      | 0.19  | Strawberry STMR (HSE, 2026)  |
| Blueberries                     | 0.605 | Red currant STMR (HSE, 2026) |
| Mulberries (black and white)    | 0.605 | Red currant STMR (HSE, 2026) |
| Avocados                        | 0.36  | STMR (HSE, 2025b)            |
| Bananas                         | 0.055 | STMR (HSE, 2025b)            |
| Beetroots                       | 0.017 | Carrot STMR (HSE, 2026)      |
| Carrots                         | 0.017 | Carrot STMR (HSE, 2026)      |
| Celeriac/turnip rooted celeries | 0.017 | Carrot STMR (HSE, 2026)      |
| Horseradishes                   | 0.017 | Carrot STMR (HSE, 2026)      |
| Jerusalem artichokes            | 0.017 | Carrot STMR (HSE, 2026)      |
| Parsnips                        | 0.017 | Carrot STMR (HSE, 2026)      |
| Radishes                        | 0.017 | Carrot STMR (HSE, 2026)      |
| Salsifies                       | 0.017 | Carrot STMR (HSE, 2026)      |
| Swedes/ rutabagas               | 0.017 | Carrot STMR (HSE, 2026)      |
| Turnips                         | 0.017 | Carrot STMR (HSE, 2026)      |

undertaken only for the uses considered as part of the current assessment

|                           |       |                                         |
|---------------------------|-------|-----------------------------------------|
| Tomatoes                  | 0.115 | Tomato STMR (HSE, 2026)                 |
| Aubergines/<br>egg plants | 0.115 | Tomato STMR (HSE, 2026)                 |
| Cucumbers                 | 0.027 | Cucumber protected STMR (HSE, 2026)     |
| Gherkins                  | 0.027 | Cucumber protected STMR (HSE, 2026)     |
| Courgettes                | 0.027 | Cucumber protected STMR (HSE, 2026)     |
| Broccoli                  | 0.027 | Broccoli & cauliflower STMR (HSE, 2026) |
| Cauliflowers              | 0.027 | Broccoli & cauliflower STMR (HSE, 2026) |
| Brussels sprouts          | 0.068 | Brussels sprouts STMR (HSE, 2026)       |
| Head cabbages             | 0.011 | Head cabbage STMR (HSE, 2026)           |
| Peas (without pods)       | 0.01  | Peas (without pods) STMR (HSE, 2026)    |
| Lentils (dry)             | 0.01  | Peas (dry) STMR (HSE, 2026)             |
| Peas                      | 0.01  | Peas (dry) STMR (HSE, 2026)             |
| Lupins/lupini beans (dry) | 0.01  | Peas (dry) STMR (HSE, 2026)             |
| Hops (dried)              | 4.5   | Hops STMR (HSE, 2026)                   |

|                                                           |      |                                      |  |  |
|-----------------------------------------------------------|------|--------------------------------------|--|--|
| Swine liver                                               | 0.01 | Swine liver<br>STMR (HSE,<br>2026)   |  |  |
| Swine edible offals<br>(other than liver<br>and kidney)   | 0.01 | Swine liver<br>STMR (HSE,<br>2026)   |  |  |
| Poultry meat                                              | 0.01 | Poultry meat<br>STMR (HSE,<br>2026)  |  |  |
| Poultry fat                                               | 0.22 | Poultry fat<br>STMR (HSE,<br>2026)   |  |  |
| Poultry liver                                             | 0.13 | Poultry liver<br>STMR (HSE,<br>2026) |  |  |
| Poultry edible<br>offals (other than<br>liver and kidney) | 0.22 | Poultry fat<br>STMR (HSE,<br>2026)   |  |  |
| Eggs: chicken                                             | 0.04 | Chicken egg<br>STMR (HSE,<br>2026)   |  |  |
| Eggs: duck                                                | 0.04 | Chicken egg<br>STMR (HSE,<br>2026)   |  |  |
| Eggs: goose                                               | 0.04 | Chicken egg<br>STMR (HSE,<br>2026)   |  |  |
| Eggs: quail                                               | 0.04 | Chicken egg<br>STMR (HSE,<br>2026)   |  |  |
| Eggs: others                                              | 0.04 | Chicken egg<br>STMR (HSE,<br>2026)   |  |  |
| All other<br>commodities                                  | MRL  | GB MRL<br>2025/006                   |  |  |

### TDMs

As stated for the UK consumer risk assessments, the acute and chronic risk assessments have been performed for the commodities below.

**Table 8.1-2 Input values for the PRIMo consumer risk assessment (TDMs)**

| Commodity                       | Chronic risk assessment |                                  | Acute risk assessment |                                                                     |
|---------------------------------|-------------------------|----------------------------------|-----------------------|---------------------------------------------------------------------|
|                                 | Input (mg/kg)           | Comment                          | Input (mg/kg)         | Comment                                                             |
| <b>TA</b>                       |                         |                                  |                       |                                                                     |
| <b>Pistachios</b>               | <b>1.150</b>            | <b>STMR (current assessment)</b> | <b>39</b>             | <b>HR (current assessment)</b>                                      |
| <b>Table Olives</b>             | <b>0.600</b>            | <b>STMR (current assessment)</b> | <b>0.870</b>          | <b>HR (current assessment)</b>                                      |
| <b>Kaki/Japanese Persimmons</b> | <b>0.069</b>            | <b>STMR (current assessment)</b> | <b>0.41</b>           | <b>HR (current assessment)</b>                                      |
| <b>Lettuces</b>                 | <b>STMR</b>             | <b>TDM Review (UK, 2018a)</b>    | <b>-</b>              | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Roman rocket/rucola</b>      | <b>STMR</b>             | <b>TDM Review (UK, 2018a)</b>    | <b>-</b>              | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Baby leaf crops</b>          | <b>STMR</b>             | <b>TDM Review (UK, 2018a)</b>    | <b>-</b>              | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Spinaches</b>                | <b>STMR</b>             | <b>TDM Review (UK, 2018a)</b>    | <b>-</b>              | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Herbs and edible flowers</b> | <b>STMR</b>             | <b>TDM Review (UK, 2018a)</b>    | <b>-</b>              | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Beans (without pods)</b>     | <b>0.135</b>            | <b>STMR (Current assessment)</b> | <b>-</b>              | <b>Not performed as COP 2023/01157 is more critical</b>             |

|                                 |             |                               |          |                                                                     |
|---------------------------------|-------------|-------------------------------|----------|---------------------------------------------------------------------|
| <b>Chervil</b>                  | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | <b>-</b> | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Chives</b>                   | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | <b>-</b> | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Celery leaves</b>            | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | <b>-</b> | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Parsley</b>                  | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | <b>-</b> | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Sage</b>                     | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | <b>-</b> | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Rosemary</b>                 | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | <b>-</b> | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Thyme</b>                    | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | <b>-</b> | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Basil and edible flowers</b> | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | <b>-</b> | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |

|                                  |              |                                  |   |                                                                     |
|----------------------------------|--------------|----------------------------------|---|---------------------------------------------------------------------|
| <b>Laurel/bay leaves</b>         | <b>STMR</b>  | <b>TDM Review (UK, 2018a)</b>    | - | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Tarragon</b>                  | <b>STMR</b>  | <b>TDM Review (UK, 2018a)</b>    | - | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Celeries</b>                  | <b>STMR</b>  | <b>TDM Review (UK, 2018a)</b>    | - | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Florence fennels</b>          | <b>STMR</b>  | <b>TDM Review (UK, 2018a)</b>    | - | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Globe artichokes</b>          | <b>STMR</b>  | <b>TDM Review (UK, 2018a)</b>    | - | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Rhubarbs</b>                  | <b>STMR</b>  | <b>TDM Review (UK, 2018a)</b>    | - | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Olives for oil production</b> | <b>STMR</b>  | <b>TDM Review (UK, 2018a)</b>    | - | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Pistachios</b>                | <b>STMR</b>  | <b>TDM Review (UK, 2018a)</b>    | - | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Avocados</b>                  | <b>0.029</b> | <b>Avocado STMR (HSE, 2025b)</b> | - | <b>Acute risk assessment</b>                                        |

|                           |       |                                      |       |                                                                           |
|---------------------------|-------|--------------------------------------|-------|---------------------------------------------------------------------------|
| Peas (without pods)       | 0.32  | Peas (without pods) STMR (HSE, 2026) |       | undertaken only for the uses considered as part of the current assessment |
| Beans                     | 0.29  | Peas (dry) STMR (HSE, 2026)          |       |                                                                           |
| Lentils (dry)             | 0.29  | Peas (dry) STMR (HSE, 2026)          |       |                                                                           |
| Peas                      | 0.29  | Peas (dry) STMR (HSE, 2026)          |       |                                                                           |
| Lupins/lupini beans       | 0.29  | Peas (dry) STMR (HSE, 2026)          |       |                                                                           |
| Coffee beans              | 0.3   | Coffee beans STMR (HSE, 2026)        |       |                                                                           |
| Hops (dried)              | 0.455 | Hops STMR (HSE, 2026)                |       |                                                                           |
| All other commodities     | STMR  | TDM Review (UK, 2018a)               |       |                                                                           |
| TLA                       |       |                                      |       |                                                                           |
| Pistachios                | 0.116 | STMR (current assessment)            | 2.4   | HR (current assessment)                                                   |
| Table Olives              | 0.01  | STMR (current assessment)            | 0.021 | HR (current assessment)                                                   |
| Kaki/ Japanese Persimmons | 0.01  | STMR (current assessment)            | 0.038 | HR (current assessment)                                                   |
| Lettuces                  | STMR  | TDM Review (UK, 2018a)               | -     | Not performed as the TDM review (UK, 2018a) is more critical              |
| Roman rocket/rucola       | STMR  | TDM Review (UK, 2018a)               | -     | Not performed as the TDM review (UK, 2018a) is more critical              |
| Baby leaf crops           | STMR  | TDM Review (UK, 2018a)               | -     | Not performed as the TDM review (UK, 2018a) is more critical              |

|                                 |             |                               |          |                                                                     |
|---------------------------------|-------------|-------------------------------|----------|---------------------------------------------------------------------|
| <b>Spinaches</b>                | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | <b>-</b> | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Herbs and edible flowers</b> | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | <b>-</b> | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Chervil</b>                  | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | <b>-</b> | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Chives</b>                   | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | <b>-</b> | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Celery leaves</b>            | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | <b>-</b> | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Parsley</b>                  | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | <b>-</b> | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Sage</b>                     | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | <b>-</b> | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Rosemary</b>                 | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | <b>-</b> | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |

|                                  |              |                                  |             |                                                                     |
|----------------------------------|--------------|----------------------------------|-------------|---------------------------------------------------------------------|
| <b>Thyme</b>                     | <b>STMR</b>  | <b>TDM Review (UK, 2018a)</b>    | <b>-</b>    | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Basil and edible flowers</b>  | <b>STMR</b>  | <b>TDM Review (UK, 2018a)</b>    | <b>-</b>    | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Laurel/bay leaves</b>         | <b>STMR</b>  | <b>TDM Review (UK, 2018a)</b>    | <b>-</b>    | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Tarragon</b>                  | <b>STMR</b>  | <b>TDM Review (UK, 2018a)</b>    | <b>-</b>    | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Cardoons</b>                  | <b>STMR</b>  | <b>TDM Review (UK, 2018a)</b>    | <b>0.05</b> | <b>HR (current assessment)</b>                                      |
| <b>Celeries</b>                  | <b>STMR</b>  | <b>TDM Review (UK, 2018a)</b>    | <b>0.05</b> | <b>HR (current assessment)</b>                                      |
| <b>Florence fennels</b>          | <b>STMR</b>  | <b>TDM Review (UK, 2018a)</b>    | <b>0.05</b> | <b>HR (current assessment)</b>                                      |
| <b>Globe artichokes</b>          | <b>STMR</b>  | <b>TDM Review (UK, 2018a)</b>    | <b>-</b>    | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Rhubarbs</b>                  | <b>STMR</b>  | <b>TDM Review (UK, 2018a)</b>    | <b>0.05</b> | <b>HR (current assessment)</b>                                      |
| <b>Olives for oil production</b> | <b>STMR</b>  | <b>TDM Review (UK, 2018a)</b>    | <b>-</b>    | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Avocados</b>                  | <b>0.028</b> | <b>Avocado STMR (HSE, 2025b)</b> | <b>-</b>    | <b>Acute risk assessment</b>                                        |

|                                 |       |                              |       |                                                                           |
|---------------------------------|-------|------------------------------|-------|---------------------------------------------------------------------------|
| Bananas                         | 0.01  | Banana STMR (COP 2025/01110) |       | undertaken only for the uses considered as part of the current assessment |
| Beans (with pods)               | 0.15  | STMR (COP 2023/01157)        |       |                                                                           |
| Beans (without pods)            | 0.26  | STMR (COP 2023/01157)        |       |                                                                           |
| Peas (with pods)                | 0.15  | STMR (COP 2023/01157)        |       |                                                                           |
| Peas (without pods)             | 0.26  | STMR (COP 2023/01157)        |       |                                                                           |
| Lentils (fresh)                 | 0.26  | STMR (COP 2023/01157)        |       |                                                                           |
| Other legume vegetables (fresh) | 0.26  | STMR (COP 2023/01157)        |       |                                                                           |
| Beans                           | 0.235 | STMR (COP 2023/01157)        |       |                                                                           |
| Lentils (dry)                   | 0.235 | STMR (COP 2023/01157)        |       |                                                                           |
| Peas                            | 0.235 | STMR (COP 2023/01157)        |       |                                                                           |
| Lupins/lupini beans             | 0.235 | STMR (COP 2023/01157)        |       |                                                                           |
| Other pulses                    | 0.235 | STMR (COP 2023/01157)        |       |                                                                           |
| Coffee beans                    | 0.019 | STMR (HSE 2025b)             |       |                                                                           |
| Hops (dried)                    | 0.2   | Hops STMR (COP 2024/00093)   |       |                                                                           |
| All other commodities           | STMR  | TDM Review (UK, 2018a)       |       |                                                                           |
| 1,2,4-T                         |       |                              |       |                                                                           |
| Pistachios                      | 0.01  | STMR (current assessment)    | 0.026 | HR (current assessment)                                                   |
| Table Olives                    | 0.01  | STMR (current assessment)    | 0.01  | HR (current assessment)                                                   |
| Kaki/ Japanese Persimmons       | 0.01  | STMR (current assessment)    | 0.01  | HR (current assessment)                                                   |

|                                 |             |                               |   |                                                                     |
|---------------------------------|-------------|-------------------------------|---|---------------------------------------------------------------------|
| <b>Lettuces</b>                 | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | - | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Roman rocket/rucola</b>      | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | - | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Baby leaf crops</b>          | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | - | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Spinaches</b>                | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | - | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Herbs and edible flowers</b> | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | - | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Chervil</b>                  | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | - | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Chives</b>                   | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | - | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Celery leaves</b>            | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | - | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |

|                                 |             |                               |          |                                                                     |
|---------------------------------|-------------|-------------------------------|----------|---------------------------------------------------------------------|
| <b>Parsley</b>                  | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | <b>-</b> | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Sage</b>                     | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | <b>-</b> | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Rosemary</b>                 | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | <b>-</b> | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Thyme</b>                    | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | <b>-</b> | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Basil and edible flowers</b> | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | <b>-</b> | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Laurel/bay leaves</b>        | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | <b>-</b> | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Tarragon</b>                 | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | <b>-</b> | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Beans (without pods)</b>     | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | <b>-</b> | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |

|                           |       |                            |       |                                                                                                 |
|---------------------------|-------|----------------------------|-------|-------------------------------------------------------------------------------------------------|
| Celeries                  | STMR  | TDM Review (UK, 2018a)     | -     | Not performed as the TDM review (UK, 2018a) is more critical                                    |
| Florence fennels          | STMR  | TDM Review (UK, 2018a)     | -     | Not performed as the TDM review (UK, 2018a) is more critical                                    |
| Globe artichokes          | STMR  | TDM Review (UK, 2018a)     | -     | Not performed as the TDM review (UK, 2018a) is more critical                                    |
| Rhubarbs                  | STMR  | TDM Review (UK, 2018a)     | -     | Not performed as the TDM review (UK, 2018a) is more critical                                    |
| Olives for oil production | STMR  | TDM Review (UK, 2018a)     | -     | Not performed as the TDM review (UK, 2018a) is more critical                                    |
| Avocados                  | 0.01  | STMR (HSE, 2025b)          | -     | Acute risk assessment undertaken only for the uses considered as part of the current assessment |
| Coffee beans              | 0.01  | STMR (HSE, 2025b)          |       |                                                                                                 |
| Hops (dried)              | 0.013 | Hops STMR (COP 2025/00287) |       |                                                                                                 |
| All other commodities     | STMR  | TDM Review (UK, 2018a)     |       |                                                                                                 |
| TAA                       |       |                            |       |                                                                                                 |
| Pistachios                | 0.01  | STMR (current assessment)  | 0.15  | HR (current assessment)                                                                         |
| Table Olives              | 0.01  | STMR (current assessment)  | 0.01  | HR (current assessment)                                                                         |
| Kaki/ Japanese Persimmons | 0.01  | STMR (current assessment)  | 0.013 | HR (current assessment)                                                                         |

|                                 |             |                               |          |                                                                     |
|---------------------------------|-------------|-------------------------------|----------|---------------------------------------------------------------------|
| <b>Lettuces</b>                 | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | <b>-</b> | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Roman rocket/rucola</b>      | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | <b>-</b> | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Baby leaf crops</b>          | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | <b>-</b> | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Spinaches</b>                | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | <b>-</b> | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Herbs and edible flowers</b> | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | <b>-</b> | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Chervil</b>                  | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | <b>-</b> | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Chives</b>                   | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | <b>-</b> | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Celery leaves</b>            | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | <b>-</b> | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |

|                                 |             |                               |          |                                                                     |
|---------------------------------|-------------|-------------------------------|----------|---------------------------------------------------------------------|
| <b>Parsley</b>                  | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | <b>-</b> | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Sage</b>                     | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | <b>-</b> | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Rosemary</b>                 | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | <b>-</b> | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Thyme</b>                    | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | <b>-</b> | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Basil and edible flowers</b> | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | <b>-</b> | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Laurel/bay leaves</b>        | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | <b>-</b> | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Tarragon</b>                 | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | <b>-</b> | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |
| <b>Beans (without pods)</b>     | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | <b>-</b> | <b>Not performed as the TDM review (UK, 2018a) is more critical</b> |

|                                  |             |                               |   |                                                                                                 |
|----------------------------------|-------------|-------------------------------|---|-------------------------------------------------------------------------------------------------|
| <b>Celeries</b>                  | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | - | <b>Not performed as the TDM review (UK, 2018a) is more critical</b>                             |
| <b>Florence fennels</b>          | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | - | <b>Not performed as the TDM review (UK, 2018a) is more critical</b>                             |
| <b>Globe artichokes</b>          | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | - | <b>Not performed as the TDM review (UK, 2018a) is more critical</b>                             |
| <b>Rhubarbs</b>                  | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | - | <b>Not performed as the TDM review (UK, 2018a) is more critical</b>                             |
| <b>Olives for oil production</b> | <b>STMR</b> | <b>TDM Review (UK, 2018a)</b> | - | <b>Not performed as the TDM review (UK, 2018a) is more critical</b>                             |
| Avocados                         | 0.01        | STMR (HSE, 2025b)             | - | Acute risk assessment undertaken only for the uses considered as part of the current assessment |
| Rapeseeds/ canola seeds          | 0.135       | STMR (CXLs CCPR 53)           |   |                                                                                                 |
| Coffee beans                     | 0.01        | STMR (HSE, 2025b)             |   |                                                                                                 |
| Hops (dried)                     | 0.012       | STMR (HSE, 2026)              |   |                                                                                                 |
| All other commodities            | STMR        | TDM Review (UK, 2018a)        |   |                                                                                                 |

Model outputs for EFSA PRIMo revision 3.1 are presented in Appendix B.

## Conclusions

For mefentrifluconazole, the highest UK NEDI was 42% of the ADI (toddler). The highest PRIMo IEDI was 38% of the ADI (NL toddler).

The highest UK NESTI for mefentrifluconazole was 37.2% of the ARfD (rhubarb, toddler). The highest PRIMo IESTI was 55% of the ARfD (lettuces, children).

The highest UK NEDI for 1,2,4-T was 74% (infant). The highest PRIMo IEDI for 1,2,4-T was 51% (NL toddler). The highest UK NESTI for 1,2,4-T was 0.1% of the ARfD (adults/pistachios). The highest PRIMo IESTI for 1,2,4-T was 0.5% (children/kaki/Japanese persimmons).

The highest UK NEDI for TA was 8% (toddler). The highest PRIMo IEDI for TA was 5% (NL toddler). The highest UK NESTI for TA was 34.8% of the ARfD (adults/pistachios). The highest PRIMo IESTI for TA was 75% (children/pistachios).

The highest UK NEDI for TAA was 1% (toddler). The highest PRIMo IEDI for TA was 1% (NL toddler). The highest UK NESTI for TAA was <0.1% of the ARfD (adults/pistachios). The highest PRIMo IESTI for TAA was 0.09% (children/pistachios).

The highest UK NEDI for TLA was 2% (infant). The highest PRIMo IEDI for TLA was 1% (NL toddler). The highest UK NESTI for TLA was 2.1% of the ARfD (adults/pistachios). The highest PRIMo IESTI for TLA was 5% (children/pistachios).

A combined risk assessment was carried out for TA + TLA by summing the respective exposure for the critical consumer group. The highest UK NEDI for TA + TLA was 9% of the ADI (0.3 mg/kg bw/day) (toddler). The highest UK NESTI for TA + TLA was 36.9% of the ARfD (0.3 mg/kg bw) (adults/pistachios). The highest PRIMo IEDI for TA + TLA was 6% of the ADI (0.3 mg/kg bw/day) (NL toddler). The highest PRIMo IESTI for TA + TLA was 80% of the ARfD (0.3 mg/kg bw) (children/pistachios).

Therefore, no health effects due to chronic or acute exposure are expected from the consumption of commodities treated with mefentrifluconazole.

## 8.2 Other routes of exposure

Not applicable.

## 9 The conclusion of the competent authority

Sufficiently validated analytical methods for the determination of mefentrifluconazole in products of plant origin, in line with the residue definition for enforcement, are available to support the uses under consideration in the import tolerance application. Analytical methods for the determination of residues in products of animal origin were not required as no consideration of residues in livestock was made because the notified crops are not fed to animals.

Toxicological reference values for mefentrifluconazole were established for the approval of the active substance: an ADI of 0.035 mg/kg bw/day and an ARfD of 0.15 mg/kg bw.

Toxicological reference values for the triazole derivative metabolites (TDMs) were established for the TDM confirmatory data review: an ADI for triazole alanine (TA) of 0.3 mg/kg bw/d, for triazole acetic acid (TAA) of 1.0 mg/kg bw/d, for triazole lactic acid (TLA) of 0.3 mg/kg bw/d and for 1,2,4-triazole (1,2,4-T) of 0.023 mg/kg bw/d; and an ARfD for TA of 0.3 mg/kg bw, for TAA of 1.0 mg/kg bw, for TLA of 0.3 mg/kg bw and 1,2,4-T of 0.1 mg/kg bw.

Metabolism in primary crops was investigated following foliar spray in fruit (grape), cereals (wheat) and pulses and oilseeds (soyabean) for the approval of mefentrifluconazole (EFSA, 2018b). The crops included in this MRL application belong to the fruit, leafy crops and pulses and oilseeds groups and are, therefore, covered by the metabolism studies available.

The residue definition for risk assessment (RD-RA) in plants has been agreed as:

- 1) Mefentrifluconazole
- 2) TA and TLA
- 3) TAA
- 4) 1,2,4-T

The residue definition for enforcement (RD- Enf) in plants has been agreed as:

- Mefentrifluconazole

Six outdoor trials on pistachios, eight outdoor trials on grapes, eight outdoor trials on table olives, four outdoor trials on apples and four on pears (which can both be extrapolated to kaki/Japanese persimmons), eight outdoor trials on head lettuce, four outdoor trials on spinach, sixteen outdoor trials on beans (without pods), four outdoor trials on celery, four

outdoor trials on globe artichokes, and eight outdoor trials on olives for oil production were submitted to support the notified uses. The trials are supported by validated analytical methods and storage stability data.

Hydrolysis of mefentrifluconazole and the TDMs under representative conditions of pasteurisation, baking, brewing, boiling and sterilisation was evaluated for the approval of the active substance (EFSA, 2018b) and the TDM Review (EFSA, 2018a). The hydrolysis data demonstrate that mefentrifluconazole and the TDMs are stable under standard conditions, therefore specific residue definitions for processed commodities are not required.

No consideration of rotational crops was made as the impact of residues in rotational crops on the import tolerances was not required as the exporting jurisdictions set MRLs without a contribution of residues arising in rotational crops.

No consideration of residues in products of animal origin was required as the crops are not used as animal feedstuffs.

For mefentrifluconazole, the highest UK NEDI was 42% of the ADI (toddler). The highest PRIMo IEDI was 38% of the ADI (NL toddler).

The highest UK NESTI for mefentrifluconazole was 37.2% of the ARfD (rhubarb, toddler). The highest PRIMo IESTI was 55% of the ARfD (lettuces, children).

The highest UK NEDI for 1,2,4-T was 74% (infant). The highest PRIMo IEDI for 1,2,4-T was 51% (NL toddler). The highest UK NESTI for 1,2,4-T was 0.1% of the ARfD (adults/pistachios). The highest PRIMo IESTI for 1,2,4-T was 0.5% (children/kaki/Japanese persimmons).

The highest UK NEDI for TA was 8% (toddler). The highest PRIMo IEDI for TA was 5% (NL toddler). The highest UK NESTI for TA was 34.8% of the ARfD (adults/pistachios). The highest PRIMo IESTI for TA was 75% (children/pistachios).

The highest UK NEDI for TAA was 1% (toddler). The highest PRIMo IEDI for TA was 1% (NL toddler). The highest UK NESTI for TAA was <0.1% of the ARfD (adults/pistachios). The highest PRIMo IESTI for TAA was 0.09% (children/pistachios).

The highest UK NEDI for TLA was 2% (infant). The highest PRIMo IEDI for TLA was 1% (NL toddler). The highest UK NESTI for TLA was 2.1% of the ARfD (adults/pistachios). The highest PRIMo IESTI for TLA was 5% (children/pistachios).

A combined risk assessment was carried out for TA + TLA by summing the respective exposure for the critical consumer group. The highest UK NEDI for TA + TLA was 9% of the ADI (0.3 mg/kg bw/day) (toddler). The highest UK NESTI for TA + TLA was 36.9% of the ARfD (0.3 mg/kg bw) (adult/pistachios). The highest PRIMo IEDI for TA + TLA was 6%

of the ADI (0.3 mg/kg bw/day) (NL toddler). The highest PRIMo IESTI for TA + TLA was 80% of the ARfD (0.3 mg/kg bw) (children/pistachios).

Therefore, no health effects due to chronic or acute exposure are expected from the consumption of commodities treated with mefentrifluconazole.

HSE concludes that sufficient data have been provided to support the setting of new MRLs for the notified uses of mefentrifluconazole on pistachios, grapes (table and wine), table olives, kaki/Japanese persimmons, lettuce, Roman rocket/rucola, baby leaf crops (including brassica species), spinach, chervil, chives, celery leaves, parsley, sage, rosemary, thyme, basil, laurel/bay leaves, tarragon, beans (without pods), cardoons, celery, Florence fennels, globe artichokes, rhubarb, and olives for oil production. These will not result in consumer exposures exceeding the toxicological reference values and therefore harmful effects on human health are not expected. HSE recommends that the MRLs outlined in Table 8.1 are amended in the GB MRL Statutory Register.

**Table 8.1 MRLs recommended by HSE**

| Product code               | Product        | Existing GB MRL (mg/kg) | New or amended GB MRL (mg/kg) | Comments                                                                        |
|----------------------------|----------------|-------------------------|-------------------------------|---------------------------------------------------------------------------------|
| <b>Enforcement</b>         | <b>residue</b> | <b>definition for</b>   | <b>products of</b>            | <b>plant origin:</b>                                                            |
| <b>mefentrifluconazole</b> |                |                         |                               |                                                                                 |
| 0120100                    | Pistachios     | 0.01*                   | 0.05                          | The MRLs are sufficiently supported by data.<br>No health effects are expected. |
| 0151010                    | Table grapes   | 0.9                     | 1.5                           |                                                                                 |
| 0151020                    | Wine Grapes    | 0.9                     | 1.5                           |                                                                                 |
| 0161030                    | Table olives   | 0.01*                   | 2.0                           |                                                                                 |

| Product code | Product                                         | Existing GB MRL (mg/kg) | New or amended GB MRL (mg/kg) | Comments                                                                                                          |
|--------------|-------------------------------------------------|-------------------------|-------------------------------|-------------------------------------------------------------------------------------------------------------------|
| 0161060      | Kaki/<br>Japanese persimmon                     | 0.01*                   | 0.2                           | The MRL is derived by extrapolation of residue trials on pears and apples.<br><br>No health effects are expected. |
| 0251020      | Lettuces                                        | 0.01*                   | 5.0                           | The MRL is sufficiently supported by data.<br><br>No health effects are expected.                                 |
| 0251060      | Roman rocket/<br>rucola                         | 0.01*                   | 7.0                           | The MRLs are derived by extrapolation of residue trials on spinach.<br><br>No health effects are expected.        |
| 0251080      | Baby leaf crops<br>(including brassica species) | 0.01*                   | 7.0                           |                                                                                                                   |
| 0252010      | Spinaches                                       | 0.01*                   | 7.0                           | The MRL is sufficiently supported by data.<br><br>No health effects are expected.                                 |

| <b>Product code</b> | <b>Product</b>           | <b>Existing GB MRL (mg/kg)</b> | <b>New or amended GB MRL (mg/kg)</b> | <b>Comments</b>                                                                                           |
|---------------------|--------------------------|--------------------------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------|
| 0256000             | Herbs and edible flowers | 0.02*                          | 7.0                                  | The MRL is derived by extrapolation of residue trials on spinach.<br><br>No health effects are expected.  |
| 0260020             | Beans (without pods)     | 0.01*                          | 0.04                                 | The MRL is sufficiently supported by data.<br><br>No health effects are expected.                         |
| 0270020             | Cardoons                 | 0.01*                          | 3.0                                  | The MRL is derived by extrapolation of residue trials on celeries.<br><br>No health effects are expected. |
| 0270030             | Celeries                 | 0.01*                          | 3.0                                  | The MRL is sufficiently supported by data.<br><br>No health effects are expected.                         |

| Product code | Product                   | Existing GB MRL (mg/kg) | New or amended GB MRL (mg/kg) | Comments                                                                                                  |
|--------------|---------------------------|-------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------|
| 0270040      | Florence fennels          | 0.01*                   | 3.0                           | The MRL is derived by extrapolation of residue trials on celeries.<br><br>No health effects are expected. |
| 0270050      | Globe artichokes          | 0.01*                   | 0.7                           | The MRL is sufficiently supported by data.<br><br>No health effects are expected.                         |
| 0270070      | Rhubarbs                  | 0.01*                   | 3.0                           | The MRL is derived by extrapolation of residue trials on celeries.<br><br>No health effects are expected. |
| 0402010      | Olives for oil production | 0.01*                   | 3.0                           | The MRL is sufficiently supported by data.<br><br>No health effects are expected.                         |

\* Indicates that the MRL is set at the limit of quantification/determination

## References

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UK, 2018b. Revised Draft Assessment Report on BAS 750 F (mefentrifluconazole) prepared by the rapporteur Member State the United Kingdom in the framework of Regulation (EC) No 1107/2009, April 2018.

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# Appendix A – GAPs notified in the MRL application

| Crop and/or situation (a)       | GB or Country For Import Tolerance | Product name                                          | F,G or I (b) | Pests or Group of pests controlled I      | Preparation |                | Application                           |                                     |                    |                                    | Application rate per treatment |                      |                        | PHI (days) (m) | Remarks                                                                           |
|---------------------------------|------------------------------------|-------------------------------------------------------|--------------|-------------------------------------------|-------------|----------------|---------------------------------------|-------------------------------------|--------------------|------------------------------------|--------------------------------|----------------------|------------------------|----------------|-----------------------------------------------------------------------------------|
|                                 |                                    |                                                       |              |                                           | Type (d-f)  | Conc. a.s. (i) | method kind (f-h)                     | range of growth stages & season (j) | number min-max (k) | Interval between application (min) | kg a.s./hL min-max (l)         | Water (L/ha) min-max | kg a.s./ha min-max (l) |                |                                                                                   |
| Pistachio (PIAVE)               | SEU<br>BG, HR, FR, GR, IT, ES, PT  | Revyona, Revyona SC, Revysion, Revysion Pero, Revyvit | F            | <i>Botryosph aeria dothidea (BOTSDO )</i> | SC          | 75             | Foliar treatment - broadcast spraying | BBCH 19-79                          | 1 - 2              | 7                                  | 0.008 - 0.1                    | 150 - 2000           | 0.15                   | 28             |                                                                                   |
| Grapevine (table, wine) (VITVI) | Brazil                             | BELANTY                                               | F            | <i>Powdery mildew (Uncinula necator)</i>  | SC          | 400            | Foliar treatment - broadcast spraying | At appearance of first symptoms     | 4                  | 7-10                               | 0.01                           | 1000                 | 0.100                  | 14             |                                                                                   |
| Persimmon (DOSKA)               | SEU<br>ES, IT, GR                  | Revyona SC, Revysion, Revysion Pero                   | F            | <i>Mycospha erella nawae (MYCON A)</i>    | SC          | 75             | Foliar treatment - broadcast spraying | BBCH 55-85                          | 1 - 2              | 7                                  | 0.008 - 0.1                    | 150 - 2000           | 0.150                  | 28             | Vertically cultivated plants may be applied with 1.3 L/10.000 m <sup>2</sup> tLWA |

The evaluation of new MRLs for mefentrifluconazole in or on various commodities

|                                                                                        |                                   |                                                           |   |                                                                                                                                                                                                                                                                                                                                                      |    |         |                                       |                         |     |      |               |           |               |   |                                                                                                          |
|----------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---------|---------------------------------------|-------------------------|-----|------|---------------|-----------|---------------|---|----------------------------------------------------------------------------------------------------------|
| Head Lettuce                                                                           | USA                               | Cevya                                                     | F | <i>Alternaria leaf spot (Alternaria spp.)</i><br><i>Powdery mildew (Erysiphe spp., Golovino myces chichoracearum, Phyllactinia spp., Sphaerotheca spp.)</i><br><i>Anthraco-se (Colletotrichum spp.)</i><br><i>Ascochyta leaf spot (Ascochyta spp.)</i><br><i>Cercospora leaf spot (Cercospora spp.)</i><br><i>Septoria leaf spot (Septoria spp.)</i> | SC | 400 g/L | Foliar treatment - broadcast spraying | before onset of disease | 1-3 | 7    | 0.155         | min. 94   | 0.117 – 0.146 | 0 | Not more than 3 applications at 0.146 kg as/ha per year & do not apply more than 0.438 kg as/ha per year |
| Spinach (SPQOL)<br>Herbs and edible flowers:<br>Chervil (ANRCE)<br>Chives – Leaves and | SEU<br>GR, IT, ES, PT, CY, BG, HR | Revyona, Revyona SC, Revysion, Pero, Revysion SC, Revyvit | F | <i>Cladosporium sp. (CLADSP)</i><br><i>Colletotrichum sp. (COLLSP)</i><br><i>Cercospora</i>                                                                                                                                                                                                                                                          | SC | 75      | Foliar treatment - broadcast spraying | BBCH 10-49              | 1   | n.a. | 0.014 - 0.057 | 200 - 800 | 0.113         | 3 |                                                                                                          |

## The evaluation of new MRLs for mefentrifluconazole in or on various commodities

[illegible]

The evaluation of new MRLs for mefentrifluconazole in or on various commodities

| Crop and/or situation (a) | GB or Country For Import Tolerance | Product name                                                       | F,G or I (b) | Pests or Group of pests controlled I                                                                                                        | Preparation |                | Application                           |                                     |                    |                                    | Application rate per treatment |                      |                        | PHI (days) (m) | Remarks |
|---------------------------|------------------------------------|--------------------------------------------------------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------|---------------------------------------|-------------------------------------|--------------------|------------------------------------|--------------------------------|----------------------|------------------------|----------------|---------|
|                           |                                    |                                                                    |              |                                                                                                                                             | Type (d-f)  | Conc. a.s. (i) | method kind (f-h)                     | range of growth stages & season (j) | number min-max (k) | Interval between application (min) | kg a.s./hL min-max (l)         | Water (L/ha) min-max | kg a.s./ha min-max (l) |                |         |
| Baby leaf crops           | SEU<br>GR, IT, ES, PT, CY, BG, HR  | Revyona, Revyona SC, Revysion, Revysion Pero, Revysion SC, Revyvit | F            | <i>Cladosporium</i> sp. (CLADSP)<br><i>Colletotrichum</i> sp. (COLLSP)<br><i>Cercospora</i> sp. (CERCSP)<br><i>Stemphylium</i> sp. (STEMSP) | SC          | 75             | Foliar treatment - broadcast spraying | BBCH 10-19                          | 1                  | n.a.                               | 0.014 - 0.057                  | 200 - 800            | 0.113                  | 3              |         |
| Rucola (ERUVE)            | SEU<br>GR, IT, ES, PT, CY, BG, HR  | Revyona, Revyona SC, Revysion, Revysion Pero, Revysion SC, Revyvit | F            | <i>Alternaria</i> sp. (ALTESP)                                                                                                              | SC          | 75             | Foliar treatment - broadcast spraying | BBCH 10-49                          | 1                  | n.a.                               | 0.014 - 0.057                  | 200 - 800            | 0.113                  | 3              |         |

The evaluation of new MRLs for mefentrifluconazole in or on various commodities

| Crop and/or situation (a)                                 | GB or Country For Import Tolerance                           | Product name                        | F,G or I (b) | Pests or Group of pests controlled I                                                                                                                | Preparation |                | Application                           |                                     |                    |                                    | Application rate per treatment |                      |                        | PHI (days) (m) | Remarks                                    |
|-----------------------------------------------------------|--------------------------------------------------------------|-------------------------------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------|---------------------------------------|-------------------------------------|--------------------|------------------------------------|--------------------------------|----------------------|------------------------|----------------|--------------------------------------------|
|                                                           |                                                              |                                     |              |                                                                                                                                                     | Type (d-f)  | Conc. a.s. (i) | method kind (f-h)                     | range of growth stages & season (j) | number min-max (k) | Interval between application (min) | kg a.s./hL min-max (l)         | Water (L/ha) min-max | kg a.s./ha min-max (l) |                |                                            |
| aromatic herbs and edible flowers                         | <u>SEU</u><br>FR                                             | Revyona                             | F            | <i>Cladosporium</i> sp. (CLADSP)<br><i>Colletotrichum</i> sp. (COLLSP)<br><i>Cercospora</i> sp. (CERCSP)<br><i>Stemphylium</i> sp. (STEMSP)         | SC          | 75             | Foliar treatment - broadcast spraying | BBCH 10-49                          | 1                  | n.a.                               | 0.014 - 0.057                  | 200 - 800            | 0.113                  | 3              |                                            |
| Beans (without pods)<br><i>Phaseolus vulgaris</i> (VICFX) | <u>NEU/CEU</u><br>DE, FR<br><br><u>SEU</u><br>FR, IT, ES, GR | Revyona SC, Revysion, Revysion Pero | F            | <i>Uromyces viciae-fabae</i> (UROMV F)<br><i>Ascochyta</i> sp. (ASCOSP)<br><i>Botryotinia fuckeliana</i> (BOTRCI)<br><i>Botrytis fabae</i> (BOTRFA) | SC          | 75             | Foliar treatment - broadcast spraying | BBCH 50-72                          | 1 - 2              | 10                                 | 0.025 - 0.098                  | 100 - 400            | 0.098                  | F              | F is defined by latest application timing. |

The evaluation of new MRLs for mefentrifluconazole in or on various commodities

| Crop and/or situation (a)                                                        | GB or Country For Import Tolerance    | Product name                                          | F,G or I (b) | Pests or Group of pests controlled I                                                                                                             | Preparation |                | Application                           |                                     |                    |                                    | Application rate per treatment |                      |                        | PHI (days) (m) | Remarks |
|----------------------------------------------------------------------------------|---------------------------------------|-------------------------------------------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------|---------------------------------------|-------------------------------------|--------------------|------------------------------------|--------------------------------|----------------------|------------------------|----------------|---------|
|                                                                                  |                                       |                                                       |              |                                                                                                                                                  | Type (d-f)  | Conc. a.s. (i) | method kind (f-h)                     | range of growth stages & season (j) | number min-max (k) | Interval between application (min) | kg a.s./ha min-max (l)         | Water (L/ha) min-max | kg a.s./ha min-max (l) |                |         |
| Celery (APUGD)<br>Florence fennels (FOEVD)<br>Cardoon (CYUCA)<br>Rhubarb (RHERH) | SEU<br>FR, GR, IT, ES, PT, CY, BG, HR | Revyona, Revyona SC, Revysion, Revysion Pero, Revyvit | F            | <i>Septoria</i> sp. (SEPTSP)<br><i>Alternaria</i> sp. (ALTESP)<br><i>Ramularia</i> sp. (RAMUSP)<br><i>Erysiphe</i> sp. (ERYSSP)                  | SC          | 75             | Foliar treatment - broadcast spraying | BBCH 21-49                          | 1 - 3              | 14                                 | 0.014 - 0.023                  | 500 - 800            | 0.113                  | 7              |         |
| Globe artichoke (CYUSC)                                                          | SEU<br>GR, IT, ES, PT, CY, BG, HR     | Revyona, Revyona SC, Revysion, Revysion Pero, Revyvit | F            | <i>Erysiphe cichoracearum</i> / <i>Golovino myces cichoracearum</i> (ERYSCI)<br><i>Leveillula</i> sp. (LEVESP)<br><i>Alternaria</i> sp. (ALTESP) | SC          | 75             | Foliar treatment - broadcast spraying | BBCH 15-59                          | 1 - 3              | 7                                  | 0.011 - 0.057                  | 200 - 1000           | 0.113                  | 3              |         |

The evaluation of new MRLs for mefentrifluconazole in or on various commodities

| Crop and/or situation (a)    | GB or Country For Import Tolerance            | Product name                                     | F,G or I (b) | Pests or Group of pests controlled I                                                      | Preparation |                | Application                           |                                     |                     |                                     | Applicati- rate treatment on per |                      |                        | PHI (day s) (m) | Remarks |
|------------------------------|-----------------------------------------------|--------------------------------------------------|--------------|-------------------------------------------------------------------------------------------|-------------|----------------|---------------------------------------|-------------------------------------|---------------------|-------------------------------------|----------------------------------|----------------------|------------------------|-----------------|---------|
|                              |                                               |                                                  |              |                                                                                           | Type (d-f)  | Conc. a.s. (i) | method kind (f-h)                     | range of growth stages & season (j) | numbe r min-max (k) | Interval between applicati on (min) | kg a.s /hL min-max (l)           | Water (L/ha) min-max | kg a.s./ha min-max (l) |                 |         |
| Olive, table and oil (OLVEU) | SEU<br>1) IT, GR, ES, FR, PT, CY, MT<br>2) GR | Revyona SC, Revysion, Revysion Pero, Revysion SC | F            | 1)<br><i>Spilocea oleagina</i> (CYCLOL)<br>2)<br><i>Colletotric hum acutatum</i> (COLLAC) | SC          | 75             | Foliar treatment - broadcast spraying | BBCH 15-85                          | 1 - 2               | 10                                  | 0.01 - 0.015                     | 1000 - 1500          | 0.150                  | 21              |         |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>(a) For crops, the GB and Codex classifications (both) should be taken into account; where relevant, the use situation should be described (e.g. fumigation of a structure)</p> <p>(b) State if the use is outdoor, field use (F) or glasshouse (G) or indoor use (I).</p> <p>(c) e.g. biting and sucking insects, soil borne insects, foliar fungi, weeds</p> <p>(d) e.g. wettable powder (WP), emulsifiable concentrate (EC), granule (GR)</p> <p>(e) CropLife International Technical Monograph no 2, 6th Edition. Revised May 2008. Catalogue of pesticide</p> <p>(f) All abbreviations used must be explained</p> <p>(g) Method, e.g. high volume spraying, low volume spraying, spreading, dusting, drench</p> <p>(h) Kind, e.g. overall, broadcast, aerial spraying, row, individual plant, between the plant- type of equipment used must be indicated</p> | <p>(i) g/kg or g/L. Normally the rate should be given for the active substance (according to ISO) and not for the variant in order to compare the rate for same active substances used in different variants (e.g. fluroxypyr). In certain cases, where only one variant is synthesised, it is more appropriate to give the rate for the variant (e.g. benthiavalicarb-isopropyl).</p> <p>(j) Growth stage range from first to last treatment (BBCH Monograph, Growth Stages of Plants, 1997, Blackwell, ISBN 3-8263-3152-4), including where relevant, information on season at time of application</p> <p>(k) Indicate the minimum and maximum number of applications possible under practical conditions of use</p> <p>(l) The values should be given in g or kg whatever gives the more manageable number (e.g. 200 kg/ha instead of 200 000 g/ha or 12.5 g/ha instead of 0.0125 kg/ha</p> <p>(m) PHI - minimum pre-harvest interval</p> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

# Appendix B – UK models and Pesticide Residues Intake Model (PRIMo)

Table B.1 Chronic risk assessment undertaken using UK model version 1.1

## Mefentrifluconazole

Active substance: mefentrifluconazole

ADI: 0.035 mg/kg bw/day

Source: EFSA 2018

|              | TOTAL INTAKE based on 97.5th percentile |         |         |           |            |             |             |            |                    |                       |
|--------------|-----------------------------------------|---------|---------|-----------|------------|-------------|-------------|------------|--------------------|-----------------------|
|              | ADULT                                   | INFANT  | TODDLER | 4-6 YEARS | 7-10 YEARS | 11-14 YEARS | 15-18 YEARS | VEGETARIAN | ELDERLY (OWN HOME) | ELDERLY (RESIDENTIAL) |
| mg/kg bw/day | 0.01183                                 | 0.00924 | 0.01476 | 0.01106   | 0.00865    | 0.00582     | 0.00730     | 0.01224    | 0.00883            | 0.00344               |
| % of ADI     | 34%                                     | 26%     | 42%     | 32%       | 25%        | 17%         | 21%         | 35%        | 25%                | 10%                   |

| STMR        |         | P | COMMODITY INTAKES |         |         |         |         |         |         |         |         |         |
|-------------|---------|---|-------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Commodity   | (mg/kg) |   | (mg/kg bw/day)    |         |         |         |         |         |         |         |         |         |
| Grapefruit  | 0.16    |   | 0.00031           | 0.00026 | 0.00093 | 0.00084 | 0.00184 | 0.00034 | 0.00023 | 0.00037 | 0.00038 | 0.00031 |
| Lemons      | 0.37    |   | 0.00005           | 0.00026 | 0.00012 | 0.00005 | 0.00003 | 0.00003 | 0.00005 | 0.00008 | 0.00012 | 0.00003 |
| Limes       | 0.37    |   | 0.00010           | L/C     | 0.00060 | 0.00008 | 0.00006 | 0.00006 | 0.00009 | 0.00010 | 0.00013 | 0.00020 |
| Mandarins   | 0.37    |   | 0.00052           | L/C     | 0.00237 | 0.00134 | 0.00109 | 0.00056 | 0.00062 | 0.00044 | 0.00058 | 0.00025 |
| Oranges     | 0.215   |   | 0.00083           | 0.00231 | 0.00352 | 0.00241 | 0.00180 | 0.00172 | 0.00142 | 0.00098 | 0.00077 | 0.00059 |
| Almonds     | 0.01    |   | 0.00000           | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Brazil nuts | 0.01    |   | 0.00000           | L/C     | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | L/C     |
| Cashew nuts | 0.01    |   | 0.00000           | L/C     | 0.00001 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |

## The evaluation of new MRLs for mefentrifluconazole in or on various commodities

[illegible]

The evaluation of new MRLs for mefentrifluconazole in or on various commodities

|                      |       |  |         |         |         |         |         |         |         |         |         |         |
|----------------------|-------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Mangoes              | 0.01  |  | 0.00001 | L/C     | 0.00002 | 0.00001 | 0.00002 | 0.00001 | 0.00004 | 0.00001 | 0.00000 | L/C     |
| Olives               | 0.525 |  | 0.00013 | L/C     | 0.00032 | 0.00032 | L/C     | 0.00003 | L/C     | 0.00010 | 0.00023 | L/C     |
| Passion fruit        | 0.01  |  | 0.00000 | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | 0.00000 | L/C     | L/C     |
| Pineapples           | 0.01  |  | 0.00001 | 0.00005 | 0.00005 | 0.00007 | 0.00002 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 |
| Pomegranates         | 0.01  |  | 0.00001 | 0.00001 | 0.00001 | 0.00000 | 0.00000 | 0.00001 | 0.00000 | 0.00001 | 0.00001 | 0.00001 |
| Beetroot             | 0.017 |  | 0.00001 | L/C     | 0.00003 | 0.00001 | 0.00001 | 0.00001 | 0.00000 | 0.00001 | 0.00001 | 0.00000 |
| Carrots              | 0.017 |  | 0.00001 | 0.00006 | 0.00004 | 0.00003 | 0.00002 | 0.00001 | 0.00002 | 0.00002 | 0.00002 | 0.00001 |
| Celeriac             | 0.017 |  | 0.00001 | L/C     | L/C     | 0.00000 | 0.00000 | L/C     | L/C     | L/C     | L/C     | L/C     |
| Horseradish          | 0.017 |  | 0.00000 | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | 0.00000 | L/C     |
| Jerusalem artichokes | 0.017 |  | 0.00000 | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     |
| Parsnips             | 0.017 |  | 0.00001 | 0.00002 | 0.00002 | 0.00001 | 0.00001 | 0.00001 | 0.00000 | 0.00001 | 0.00001 | 0.00000 |
| Radishes             | 0.017 |  | 0.00001 | L/C     | 0.00002 | L/C     | 0.00000 | 0.00000 | 0.00000 | 0.00001 | 0.00000 | 0.00000 |
| Salsify              | 0.017 |  | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     |
| Swedes               | 0.017 |  | 0.00001 | 0.00005 | 0.00003 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 |
| Turnips              | 0.017 |  | 0.00001 | L/C     | 0.00002 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00000 | 0.00001 | 0.00001 |
| Yam                  | 0.01  |  | 0.00003 | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     |
| Garlic               | 0.01  |  | 0.00000 | L/C     | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | L/C     |
| Onions               | 0.01  |  | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00000 |
| Spring onions        | 0.01  |  | 0.00000 | L/C     | 0.00000 | 0.00001 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Tomatoes             | 0.115 |  | 0.00016 | 0.00021 | 0.00030 | 0.00022 | 0.00021 | 0.00012 | 0.00015 | 0.00020 | 0.00017 | 0.00015 |
| Peppers              | 0.01  |  | 0.00000 | L/C     | 0.00001 | 0.00000 | 0.00001 | 0.00000 | 0.00000 | 0.00001 | 0.00001 | 0.00000 |
| Aubergines           | 0.115 |  | 0.00004 | L/C     | 0.00018 | 0.00009 | 0.00003 | 0.00006 | 0.00004 | 0.00007 | 0.00005 | L/C     |
| Marrows              | 0.027 |  | 0.00001 | L/C     | 0.00004 | 0.00001 | 0.00002 | 0.00002 | 0.00001 | 0.00001 | 0.00004 | 0.00002 |
| Cucumbers            | 0.027 |  | 0.00001 | 0.00001 | 0.00007 | 0.00004 | 0.00003 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00000 |
| Gourd                | 0.027 |  | 0.00001 | L/C     | L/C     | L/C     | L/C     | 0.00001 | L/C     | 0.00001 | L/C     | L/C     |
| Courgettes           | 0.027 |  | 0.00001 | 0.00004 | 0.00006 | 0.00003 | 0.00002 | 0.00001 | 0.00001 | 0.00002 | 0.00001 | 0.00001 |
| Melons               | 0.01  |  | 0.00002 | 0.00003 | 0.00005 | 0.00004 | 0.00003 | 0.00002 | 0.00003 | 0.00003 | 0.00003 | 0.00001 |
| Sweet corn           | 0.01  |  | 0.00001 | 0.00001 | 0.00002 | 0.00001 | 0.00001 | 0.00000 | 0.00001 | 0.00001 | 0.00001 | 0.00000 |
| Broccoli             | 0.027 |  | 0.00002 | 0.00003 | 0.00005 | 0.00003 | 0.00003 | 0.00002 | 0.00002 | 0.00002 | 0.00003 | 0.00001 |

The evaluation of new MRLs for mefentrifluconazole in or on various commodities

|                      |       |  |         |         |         |         |         |         |         |         |         |         |
|----------------------|-------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Cauliflower          | 0.027 |  | 0.00002 | 0.00009 | 0.00006 | 0.00005 | 0.00002 | 0.00002 | 0.00002 | 0.00003 | 0.00003 | 0.00002 |
| Brussels sprouts     | 0.068 |  | 0.00004 | 0.00016 | 0.00012 | 0.00010 | 0.00005 | 0.00006 | 0.00004 | 0.00005 | 0.00007 | 0.00003 |
| Head cabbage         | 0.011 |  | 0.00001 | 0.00002 | 0.00002 | 0.00002 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00002 | 0.00001 |
| Chinese cabbage      | 0.01  |  | 0.00000 | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | 0.00001 | 0.00000 | L/C     |
| Kohl Rabi            | 0.01  |  | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     |
| Cress                | 0.01  |  | 0.00000 | L/C     | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Lettuce              | 1.08  |  | 0.00066 | 0.00038 | 0.00092 | 0.00074 | 0.00078 | 0.00043 | 0.00047 | 0.00075 | 0.00057 | 0.00029 |
| Spinach              | 2.45  |  | 0.00129 | 0.00245 | 0.00384 | 0.00210 | 0.00215 | 0.00153 | 0.00085 | 0.00167 | 0.00137 | 0.00086 |
| Watercress           | 0.01  |  | 0.00000 | L/C     | L/C     | 0.00000 | 0.00000 | 0.00000 | L/C     | 0.00000 | 0.00000 | L/C     |
| Chicory              | 0.01  |  | 0.00000 | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | 0.00000 | L/C     | L/C     |
| Parsley              | 2.45  |  | 0.00042 | L/C     | 0.00027 | L/C     | 0.00039 | 0.00010 | 0.00003 | 0.00042 | 0.00044 | 0.00090 |
| Beans with pods      | 0.01  |  | 0.00001 | 0.00001 | 0.00002 | 0.00001 | 0.00001 | 0.00000 | 0.00001 | 0.00000 | 0.00001 | 0.00000 |
| Runner Beans         | 0.01  |  | 0.00001 | L/C     | 0.00001 | 0.00000 | 0.00001 | 0.00001 | 0.00000 | 0.00002 | 0.00001 | 0.00001 |
| Beans without pods   | 0.01  |  | 0.00000 | 0.00001 | 0.00002 | 0.00000 | 0.00001 | 0.00000 | 0.00000 | 0.00001 | 0.00001 | 0.00001 |
| Peas with pods       | 0.01  |  | 0.00000 | L/C     | 0.00000 | 0.00001 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00001 | L/C     |
| Peas without pods    | 0.01  |  | 0.00001 | 0.00002 | 0.00002 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 |
| Beansprouts          | 0.01  |  | 0.00000 | L/C     | 0.00001 | 0.00001 | 0.00001 | 0.00000 | 0.00000 | 0.00000 | 0.00001 | 0.00000 |
| Asparagus            | 0.01  |  | 0.00000 | L/C     | L/C     | L/C     | L/C     | L/C     | 0.00000 | 0.00001 | 0.00000 | L/C     |
| Bamboo shoots        | 0.01  |  | 0.00000 | L/C     | 0.00000 | L/C     | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | L/C     |
| Celery               | 0.6   |  | 0.00020 | 0.00026 | 0.00025 | 0.00017 | 0.00010 | 0.00015 | 0.00011 | 0.00028 | 0.00029 | 0.00007 |
| Fennel               | 0.6   |  | 0.00023 | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     |
| Globe artichokes     | 0.25  |  | 0.00008 | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | 0.00005 | L/C     | L/C     |
| Leeks                | 0.01  |  | 0.00000 | L/C     | 0.00001 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00001 | 0.00000 |
| Rhubarb              | 0.6   |  | 0.00024 | 0.00043 | 0.00066 | 0.00014 | 0.00030 | 0.00008 | 0.00010 | 0.00021 | 0.00040 | 0.00025 |
| Cultivated mushrooms | 0.01  |  | 0.00000 | 0.00000 | 0.00001 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00001 | 0.00000 | 0.00000 |
| Beans                | 0.01  |  | 0.00002 | 0.00006 | 0.00005 | 0.00003 | 0.00003 | 0.00002 | 0.00002 | 0.00002 | 0.00001 | 0.00001 |
| Lentils              | 0.01  |  | 0.00001 | 0.00001 | 0.00002 | 0.00002 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00000 |
| dried Peas           | 0.01  |  | 0.00001 | L/C     | 0.00002 | 0.00000 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 |
| Oilseeds             | 0.06  |  | 0.00019 | 0.00038 | 0.00043 | 0.00043 | 0.00034 | 0.00024 | 0.00021 | 0.00028 | 0.00019 | 0.00023 |

The evaluation of new MRLs for mefentrifluconazole in or on various commodities

|                            |      |  |         |         |         |         |         |         |         |         |         |         |
|----------------------------|------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Potatoes                   | 0.01 |  | 0.00003 | 0.00011 | 0.00009 | 0.00008 | 0.00007 | 0.00005 | 0.00005 | 0.00004 | 0.00003 | 0.00003 |
| Hops (dried 0.25% of beer) | 4.5  |  | 0.00028 | L/C     | L/C     | L/C     | L/C     | 0.00003 | 0.00025 | 0.00024 | 0.00028 | 0.00021 |
| Oats                       | 0.6  |  | 0.00021 | 0.00132 | 0.00073 | 0.00046 | 0.00027 | 0.00021 | 0.00038 | 0.00038 | 0.00032 | 0.00034 |
| Barley                     | 0.6  |  | 0.00015 | L/C     | 0.00020 | 0.00021 | 0.00048 | 0.00012 | 0.00014 | 0.00015 | 0.00015 | 0.00009 |
| Millet                     | 0.01 |  | L/C     | L/C     | 0.00000 | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     |
| Buckwheat                  | 0.01 |  | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     |
| Maize                      | 0.01 |  | 0.00000 | 0.00005 | 0.00001 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Wheat                      | 0.05 |  | 0.00018 | 0.00014 | 0.00042 | 0.00044 | 0.00034 | 0.00025 | 0.00020 | 0.00021 | 0.00016 | 0.00017 |
| Rice                       | 0.01 |  | 0.00002 | 0.00003 | 0.00005 | 0.00004 | 0.00005 | 0.00004 | 0.00003 | 0.00002 | 0.00001 | 0.00000 |
| Rye                        | 0.05 |  | 0.00003 | 0.00007 | 0.00002 | 0.00002 | 0.00002 | 0.00001 | 0.00001 | 0.00003 | 0.00002 | 0.00001 |
| Poultry                    | 0.22 |  | 0.00036 | 0.00038 | 0.00066 | 0.00061 | 0.00040 | 0.00034 | 0.00033 | 0.00038 | 0.00036 | 0.00017 |
| Meat fat                   | 0.22 |  | 0.00004 | 0.00009 | 0.00016 | 0.00009 | 0.00007 | 0.00006 | 0.00005 | 0.00003 | 0.00005 | 0.00004 |
| Meat excl. poultry & offal | 0.4  |  | 0.00076 | 0.00163 | 0.00166 | 0.00138 | 0.00122 | 0.00082 | 0.00084 | 0.00015 | 0.00071 | 0.00068 |
| All types of kidney        | 0.3  |  | 0.00009 | 0.00013 | 0.00041 | 0.00011 | 0.00007 | 0.00006 | 0.00009 | L/C     | 0.00014 | 0.00010 |
| All types of Liver         | 0.7  |  | 0.00033 | 0.00157 | 0.00167 | 0.00024 | 0.00030 | 0.00042 | 0.00021 | L/C     | 0.00048 | 0.00034 |
| Other types of offal       | 0.7  |  | 0.00048 | 0.00110 | 0.00153 | 0.00076 | 0.00066 | 0.00072 | 0.00032 | 0.00011 | 0.00053 | 0.00050 |
| Eggs                       | 0.04 |  | 0.00004 | 0.00019 | 0.00014 | 0.00009 | 0.00006 | 0.00006 | 0.00004 | 0.00004 | 0.00004 | 0.00006 |
| Milk                       | 0.03 |  | 0.00025 | 0.00293 | 0.00167 | 0.00088 | 0.00055 | 0.00035 | 0.00028 | 0.00029 | 0.00026 | 0.00035 |
| Sugar beet                 | 0.06 |  | 0.00084 | 0.00200 | 0.00334 | 0.00202 | 0.00189 | 0.00120 | 0.00116 | 0.00072 | 0.00064 | 0.00091 |

\* 0.00000 corresponds to <0.000005 mg/kg bw/day (any value  $\geq$ 0.000005 is rounded to 0.00001)

L/C Low consumption (<0.1 g/day) or low number of consumers (<4)

The evaluation of new MRLs for mefentrifluconazole in or on various commodities

## 1,2,4 – T

Active substance: 1,2,4-T

ADI: 0.023 mg/kg bw/day

Source: 0

| TOTAL INTAKE based on 97.5th percentile |         |         |         |           |            |             |             |            |                    |                       |
|-----------------------------------------|---------|---------|---------|-----------|------------|-------------|-------------|------------|--------------------|-----------------------|
|                                         | ADULT   | INFANT  | TODDLER | 4-6 YEARS | 7-10 YEARS | 11-14 YEARS | 15-18 YEARS | VEGETARIAN | ELDERLY (OWN HOME) | ELDERLY (RESIDENTIAL) |
| mg/kg bw/day                            | 0.00198 | 0.01705 | 0.01084 | 0.00630   | 0.00439    | 0.00288     | 0.00227     | 0.00212    | 0.00194            | 0.00251               |
| % of ADI                                | 9%      | 74%     | 47%     | 27%       | 19%        | 13%         | 10%         | 9%         | 8%                 | 11%                   |

| STMR         |         | P | COMMODITY INTAKES |         |         |         |         |         |         |         |         |         |
|--------------|---------|---|-------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Commodity    | (mg/kg) |   | (mg/kg bw/day)    |         |         |         |         |         |         |         |         |         |
| Grapefruit   | 0.05    |   | 0.00010           | 0.00008 | 0.00029 | 0.00026 | 0.00058 | 0.00010 | 0.00007 | 0.00012 | 0.00012 | 0.00010 |
| Lemons       | 0.05    |   | 0.00001           | 0.00003 | 0.00002 | 0.00001 | 0.00000 | 0.00000 | 0.00001 | 0.00001 | 0.00002 | 0.00000 |
| Limes        | 0.05    |   | 0.00001           | L/C     | 0.00008 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00002 | 0.00003 |
| Mandarins    | 0.05    |   | 0.00007           | L/C     | 0.00032 | 0.00018 | 0.00015 | 0.00008 | 0.00008 | 0.00006 | 0.00008 | 0.00003 |
| Oranges      | 0.05    |   | 0.00019           | 0.00054 | 0.00082 | 0.00056 | 0.00042 | 0.00040 | 0.00033 | 0.00023 | 0.00018 | 0.00014 |
| Pistachios   | 0.01    |   | 0.00000           | L/C     | 0.00000 | L/C     | 0.00000 | L/C     | L/C     | 0.00000 | L/C     | L/C     |
| Apples       | 0.01    |   | 0.00003           | 0.00008 | 0.00015 | 0.00009 | 0.00008 | 0.00004 | 0.00004 | 0.00003 | 0.00002 | 0.00001 |
| Pears        | 0.01    |   | 0.00001           | 0.00003 | 0.00007 | 0.00004 | 0.00002 | 0.00002 | 0.00001 | 0.00002 | 0.00002 | 0.00001 |
| Apricots     | 0.01    |   | 0.00000           | 0.00001 | 0.00001 | 0.00001 | 0.00000 | 0.00000 | 0.00000 | 0.00001 | 0.00000 | 0.00000 |
| Peaches      | 0.01    |   | 0.00001           | 0.00001 | 0.00003 | 0.00002 | 0.00001 | 0.00001 | 0.00000 | 0.00001 | 0.00001 | 0.00000 |
| Plums        | 0.01    |   | 0.00001           | 0.00000 | 0.00002 | 0.00001 | 0.00001 | 0.00000 | 0.00000 | 0.00001 | 0.00001 | 0.00000 |
| Cherries     | 0.01    |   | 0.00000           | 0.00001 | 0.00001 | 0.00002 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00000 | 0.00000 |
| Table grapes | 0.01    |   | 0.00001           | 0.00002 | 0.00005 | 0.00002 | 0.00003 | 0.00001 | 0.00001 | 0.00002 | 0.00001 | 0.00000 |
| Wine grapes  | 0.01    |   | 0.00010           | 0.00001 | 0.00001 | 0.00001 | 0.00000 | 0.00001 | 0.00004 | 0.00010 | 0.00007 | 0.00001 |
| Strawberries | 0.01    |   | 0.00001           | 0.00002 | 0.00002 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 |
| Blackberries | 0.01    |   | 0.00000           | L/C     | 0.00002 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Loganberries | 0.01    |   | 0.00000           | 0.00001 | 0.00001 | 0.00000 | 0.00001 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |

The evaluation of new MRLs for mefentrifluconazole in or on various commodities

|                      |      |  |         |         |         |         |         |         |         |         |         |         |
|----------------------|------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Raspberries          | 0.01 |  | 0.00000 | L/C     | 0.00002 | 0.00001 | 0.00001 | 0.00000 | 0.00000 | 0.00000 | 0.00001 | 0.00000 |
| Gooseberries         | 0.01 |  | 0.00000 | 0.00001 | 0.00001 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00001 | 0.00001 | 0.00000 |
| Blackcurrants        | 0.01 |  | 0.00001 | 0.00001 | 0.00002 | 0.00002 | 0.00001 | 0.00001 | 0.00001 | 0.00000 | 0.00001 | 0.00000 |
| Red currants         | 0.01 |  | 0.00000 | L/C     | 0.00001 | L/C     | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | L/C     |
| White currants       | 0.01 |  | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     |
| Avocados             | 0.01 |  | 0.00001 | L/C     | 0.00001 | L/C     | L/C     | L/C     | 0.00000 | 0.00001 | 0.00001 | L/C     |
| Bananas              | 0.05 |  | 0.00010 | 0.00035 | 0.00033 | 0.00022 | 0.00017 | 0.00010 | 0.00007 | 0.00011 | 0.00008 | 0.00009 |
| Beetroot             | 0.01 |  | 0.00000 | L/C     | 0.00001 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Carrots              | 0.01 |  | 0.00001 | 0.00004 | 0.00002 | 0.00002 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 |
| Celeriac             | 0.01 |  | 0.00000 | L/C     | L/C     | 0.00000 | 0.00000 | L/C     | L/C     | L/C     | L/C     | L/C     |
| Horseradish          | 0.01 |  | 0.00000 | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | 0.00000 | L/C     |
| Jerusalem artichokes | 0.01 |  | 0.00000 | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     |
| Parsnips             | 0.01 |  | 0.00000 | 0.00001 | 0.00001 | 0.00001 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00001 | 0.00000 |
| Radishes             | 0.01 |  | 0.00000 | L/C     | 0.00001 | L/C     | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Salsify              | 0.01 |  | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     |
| Swedes               | 0.01 |  | 0.00000 | 0.00003 | 0.00002 | 0.00001 | 0.00001 | 0.00001 | 0.00000 | 0.00000 | 0.00001 | 0.00000 |
| Turnips              | 0.01 |  | 0.00000 | L/C     | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00000 | 0.00000 | 0.00001 | 0.00000 |
| Yam                  | 0.01 |  | 0.00003 | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     |
| Garlic               | 0.01 |  | 0.00000 | L/C     | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | L/C     |
| Onions               | 0.01 |  | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00000 |
| Spring onions        | 0.01 |  | 0.00000 | L/C     | 0.00000 | 0.00001 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Tomatoes             | 0.01 |  | 0.00001 | 0.00002 | 0.00003 | 0.00002 | 0.00002 | 0.00001 | 0.00001 | 0.00002 | 0.00001 | 0.00001 |
| Peppers              | 0.01 |  | 0.00000 | L/C     | 0.00001 | 0.00000 | 0.00001 | 0.00000 | 0.00000 | 0.00001 | 0.00001 | 0.00000 |
| Aubergines           | 0.01 |  | 0.00000 | L/C     | 0.00002 | 0.00001 | 0.00000 | 0.00001 | 0.00000 | 0.00001 | 0.00000 | L/C     |
| Marrows              | 0.01 |  | 0.00001 | L/C     | 0.00002 | 0.00000 | 0.00001 | 0.00001 | 0.00000 | 0.00001 | 0.00001 | 0.00001 |
| Cucumbers            | 0.01 |  | 0.00000 | 0.00000 | 0.00002 | 0.00002 | 0.00001 | 0.00001 | 0.00000 | 0.00001 | 0.00000 | 0.00000 |
| Gourd                | 0.01 |  | 0.00001 | L/C     | L/C     | L/C     | L/C     | 0.00000 | L/C     | 0.00000 | L/C     | L/C     |
| Courgettes           | 0.01 |  | 0.00000 | 0.00001 | 0.00002 | 0.00001 | 0.00001 | 0.00000 | 0.00000 | 0.00001 | 0.00001 | 0.00000 |
| Melons               | 0.01 |  | 0.00002 | 0.00003 | 0.00005 | 0.00004 | 0.00003 | 0.00002 | 0.00003 | 0.00003 | 0.00003 | 0.00001 |

The evaluation of new MRLs for mefentrifluconazole in or on various commodities

|                    |       |  |         |         |         |         |         |         |         |         |         |         |
|--------------------|-------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Sweet corn         | 0.01  |  | 0.00001 | 0.00001 | 0.00002 | 0.00001 | 0.00001 | 0.00000 | 0.00001 | 0.00001 | 0.00001 | 0.00000 |
| Broccoli           | 0.039 |  | 0.00003 | 0.00004 | 0.00007 | 0.00005 | 0.00004 | 0.00003 | 0.00002 | 0.00003 | 0.00004 | 0.00001 |
| Cauliflower        | 0.039 |  | 0.00003 | 0.00012 | 0.00008 | 0.00007 | 0.00003 | 0.00003 | 0.00003 | 0.00005 | 0.00004 | 0.00003 |
| Brussels sprouts   | 0.039 |  | 0.00002 | 0.00009 | 0.00007 | 0.00006 | 0.00003 | 0.00004 | 0.00002 | 0.00003 | 0.00004 | 0.00002 |
| Head cabbage       | 0.039 |  | 0.00002 | 0.00007 | 0.00007 | 0.00005 | 0.00003 | 0.00003 | 0.00002 | 0.00003 | 0.00005 | 0.00003 |
| Chinese cabbage    | 0.039 |  | 0.00002 | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | 0.00002 | 0.00001 | L/C     |
| Kohl Rabi          | 0.039 |  | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     |
| Cress              | 0.015 |  | 0.00000 | L/C     | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Lettuce            | 0.015 |  | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00000 |
| Spinach            | 0.015 |  | 0.00001 | 0.00002 | 0.00002 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 |
| Watercress         | 0.015 |  | 0.00000 | L/C     | L/C     | 0.00000 | 0.00000 | 0.00000 | L/C     | 0.00000 | 0.00000 | L/C     |
| Chicory            | 0.015 |  | 0.00000 | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | 0.00000 | L/C     | L/C     |
| Parsley            | 0.015 |  | 0.00000 | L/C     | 0.00000 | L/C     | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00001 |
| Beans with pods    | 0.01  |  | 0.00001 | 0.00001 | 0.00002 | 0.00001 | 0.00001 | 0.00000 | 0.00001 | 0.00000 | 0.00001 | 0.00000 |
| Runner Beans       | 0.01  |  | 0.00001 | L/C     | 0.00001 | 0.00000 | 0.00001 | 0.00001 | 0.00000 | 0.00002 | 0.00001 | 0.00001 |
| Beans without pods | 0.01  |  | 0.00000 | 0.00001 | 0.00002 | 0.00000 | 0.00001 | 0.00000 | 0.00000 | 0.00001 | 0.00001 | 0.00001 |
| Peas with pods     | 0.01  |  | 0.00000 | L/C     | 0.00000 | 0.00001 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00001 | L/C     |
| Peas without pods  | 0.01  |  | 0.00001 | 0.00002 | 0.00002 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 |
| Beansprouts        | 0.01  |  | 0.00000 | L/C     | 0.00001 | 0.00001 | 0.00001 | 0.00000 | 0.00000 | 0.00000 | 0.00001 | 0.00000 |
| Asparagus          | 0.01  |  | 0.00000 | L/C     | L/C     | L/C     | L/C     | L/C     | 0.00000 | 0.00001 | 0.00000 | L/C     |
| Bamboo shoots      | 0.01  |  | 0.00000 | L/C     | 0.00000 | L/C     | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | L/C     |
| Celery             | 0.01  |  | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Fennel             | 0.01  |  | 0.00000 | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     |
| Globe artichokes   | 0.01  |  | 0.00000 | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | 0.00000 | L/C     | L/C     |
| Leeks              | 0.01  |  | 0.00000 | L/C     | 0.00001 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00001 | 0.00000 |
| Rhubarb            | 0.01  |  | 0.00000 | 0.00001 | 0.00001 | 0.00000 | 0.00001 | 0.00000 | 0.00000 | 0.00000 | 0.00001 | 0.00000 |
| Beans              | 0.05  |  | 0.00008 | 0.00030 | 0.00024 | 0.00017 | 0.00014 | 0.00010 | 0.00011 | 0.00009 | 0.00007 | 0.00005 |
| Lentils            | 0.05  |  | 0.00004 | 0.00007 | 0.00009 | 0.00010 | 0.00003 | 0.00006 | 0.00003 | 0.00004 | 0.00003 | 0.00001 |
| dried Peas         | 0.05  |  | 0.00003 | L/C     | 0.00009 | 0.00002 | 0.00004 | 0.00006 | 0.00003 | 0.00003 | 0.00005 | 0.00004 |

The evaluation of new MRLs for mefentrifluconazole in or on various commodities

|                            |       |  |         |         |         |         |         |         |         |         |         |         |
|----------------------------|-------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Oilseeds                   | 0.05  |  | 0.00016 | 0.00032 | 0.00036 | 0.00036 | 0.00028 | 0.00020 | 0.00018 | 0.00023 | 0.00016 | 0.00019 |
| Potatoes                   | 0.01  |  | 0.00003 | 0.00011 | 0.00009 | 0.00008 | 0.00007 | 0.00005 | 0.00005 | 0.00004 | 0.00003 | 0.00003 |
| Hops (dried 0.25% of beer) | 0.013 |  | 0.00000 | L/C     | L/C     | L/C     | L/C     | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Oats                       | 0.05  |  | 0.00002 | 0.00011 | 0.00006 | 0.00004 | 0.00002 | 0.00002 | 0.00003 | 0.00003 | 0.00003 | 0.00003 |
| Barley                     | 0.05  |  | 0.00001 | L/C     | 0.00002 | 0.00002 | 0.00004 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 |
| Millet                     | 0.05  |  | L/C     | L/C     | 0.00001 | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     |
| Buckwheat                  | 0.05  |  | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     |
| Maize                      | 0.05  |  | 0.00000 | 0.00023 | 0.00004 | 0.00002 | 0.00001 | 0.00001 | 0.00001 | 0.00002 | 0.00001 | 0.00000 |
| Wheat                      | 0.05  |  | 0.00018 | 0.00014 | 0.00042 | 0.00044 | 0.00034 | 0.00025 | 0.00020 | 0.00021 | 0.00016 | 0.00017 |
| Rice                       | 0.05  |  | 0.00011 | 0.00014 | 0.00024 | 0.00019 | 0.00025 | 0.00020 | 0.00013 | 0.00010 | 0.00006 | 0.00002 |
| Rye                        | 0.05  |  | 0.00003 | 0.00007 | 0.00002 | 0.00002 | 0.00002 | 0.00001 | 0.00001 | 0.00003 | 0.00002 | 0.00001 |
| Poultry                    | 0.04  |  | 0.00006 | 0.00007 | 0.00012 | 0.00011 | 0.00007 | 0.00006 | 0.00006 | 0.00007 | 0.00007 | 0.00003 |
| Meat fat                   | 0.12  |  | 0.00002 | 0.00005 | 0.00009 | 0.00005 | 0.00004 | 0.00003 | 0.00003 | 0.00001 | 0.00002 | 0.00002 |
| Meat excl. poultry & offal | 0.16  |  | 0.00030 | 0.00065 | 0.00066 | 0.00055 | 0.00049 | 0.00033 | 0.00033 | 0.00006 | 0.00029 | 0.00027 |
| All types of kidney        | 0.2   |  | 0.00006 | 0.00009 | 0.00027 | 0.00007 | 0.00005 | 0.00004 | 0.00006 | L/C     | 0.00010 | 0.00006 |
| All types of Liver         | 0.19  |  | 0.00009 | 0.00043 | 0.00045 | 0.00007 | 0.00008 | 0.00011 | 0.00006 | L/C     | 0.00013 | 0.00009 |
| Other types of offal       | 0.2   |  | 0.00014 | 0.00031 | 0.00044 | 0.00022 | 0.00019 | 0.00020 | 0.00009 | 0.00003 | 0.00015 | 0.00014 |
| Eggs                       | 0.04  |  | 0.00004 | 0.00019 | 0.00014 | 0.00009 | 0.00006 | 0.00006 | 0.00004 | 0.00004 | 0.00004 | 0.00006 |
| Milk                       | 0.16  |  | 0.00132 | 0.01561 | 0.00892 | 0.00471 | 0.00291 | 0.00188 | 0.00149 | 0.00155 | 0.00138 | 0.00188 |
| Sugar beet                 | 0.01  |  | 0.00014 | 0.00033 | 0.00056 | 0.00034 | 0.00031 | 0.00020 | 0.00019 | 0.00012 | 0.00011 | 0.00015 |

\* 0.00000 corresponds to <0.000005 mg/kg bw/day (any value ≥0.000005 is rounded to 0.00001)

L/C Low consumption (<0.1 g/day) or low number of consumers (<4)

The evaluation of new MRLs for mefentrifluconazole in or on various commodities

**TA**

Active substance: TA

ADI: 0.3 mg/kg bw/day

Source:

|              | TOTAL INTAKE based on 97.5th percentile |         |         |              |               |                |                |            |                    |                       |
|--------------|-----------------------------------------|---------|---------|--------------|---------------|----------------|----------------|------------|--------------------|-----------------------|
|              | ADULT                                   | INFANT  | TODDLER | 4-6<br>YEARS | 7-10<br>YEARS | 11-14<br>YEARS | 15-18<br>YEARS | VEGETARIAN | ELDERLY (OWN HOME) | ELDERLY (RESIDENTIAL) |
| mg/kg bw/day | 0.00825                                 | 0.01853 | 0.02350 | 0.01938      | 0.01619       | 0.01121        | 0.01008        | 0.00977    | 0.00709            | 0.00890               |
| % of ADI     | 3%                                      | 6%      | 8%      | 6%           | 5%            | 4%             | 3%             | 3%         | 2%                 | 3%                    |

| STMR         |         | P | COMMODITY INTAKES |         |         |         |         |         |         |         |         |         |
|--------------|---------|---|-------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Commodity    | (mg/kg) |   | (mg/kg bw/day)    |         |         |         |         |         |         |         |         |         |
| Grapefruit   | 0.32    |   | 0.00062           | 0.00051 | 0.00186 | 0.00169 | 0.00369 | 0.00067 | 0.00047 | 0.00075 | 0.00077 | 0.00062 |
| Lemons       | 0.32    |   | 0.00004           | 0.00022 | 0.00010 | 0.00004 | 0.00003 | 0.00002 | 0.00004 | 0.00007 | 0.00010 | 0.00002 |
| Limes        | 0.32    |   | 0.00009           | L/C     | 0.00052 | 0.00007 | 0.00005 | 0.00005 | 0.00008 | 0.00009 | 0.00011 | 0.00017 |
| Mandarins    | 0.32    |   | 0.00045           | L/C     | 0.00205 | 0.00116 | 0.00094 | 0.00049 | 0.00053 | 0.00038 | 0.00050 | 0.00021 |
| Oranges      | 0.32    |   | 0.00123           | 0.00344 | 0.00524 | 0.00359 | 0.00267 | 0.00255 | 0.00212 | 0.00146 | 0.00114 | 0.00087 |
| Pistachios   | 1.15    |   | 0.00044           | L/C     | 0.00038 | L/C     | 0.00028 | L/C     | L/C     | 0.00014 | L/C     | L/C     |
| Apples       | 0.066   |   | 0.00018           | 0.00056 | 0.00098 | 0.00062 | 0.00050 | 0.00027 | 0.00024 | 0.00022 | 0.00014 | 0.00007 |
| Pears        | 0.066   |   | 0.00009           | 0.00017 | 0.00043 | 0.00024 | 0.00015 | 0.00012 | 0.00010 | 0.00012 | 0.00015 | 0.00008 |
| Apricots     | 0.32    |   | 0.00012           | 0.00043 | 0.00033 | 0.00020 | 0.00013 | 0.00012 | 0.00007 | 0.00024 | 0.00014 | 0.00012 |
| Peaches      | 0.32    |   | 0.00044           | 0.00043 | 0.00100 | 0.00050 | 0.00038 | 0.00024 | 0.00014 | 0.00030 | 0.00030 | 0.00014 |
| Plums        | 0.32    |   | 0.00029           | 0.00015 | 0.00069 | 0.00043 | 0.00025 | 0.00009 | 0.00008 | 0.00022 | 0.00021 | 0.00007 |
| Cherries     | 0.32    |   | 0.00015           | 0.00046 | 0.00034 | 0.00048 | 0.00018 | 0.00023 | 0.00019 | 0.00017 | 0.00011 | 0.00003 |
| Table grapes | 0.06    |   | 0.00008           | 0.00010 | 0.00028 | 0.00013 | 0.00016 | 0.00007 | 0.00004 | 0.00012 | 0.00008 | 0.00003 |
| Wine grapes  | 0.06    |   | 0.00059           | 0.00007 | 0.00005 | 0.00005 | 0.00002 | 0.00006 | 0.00021 | 0.00058 | 0.00040 | 0.00009 |
| Strawberries | 0.06    |   | 0.00004           | 0.00012 | 0.00012 | 0.00008 | 0.00005 | 0.00004 | 0.00003 | 0.00006 | 0.00006 | 0.00003 |
| Blackberries | 0.06    |   | 0.00001           | L/C     | 0.00012 | 0.00000 | 0.00002 | 0.00002 | 0.00001 | 0.00002 | 0.00002 | 0.00000 |
| Loganberries | 0.06    |   | 0.00000           | 0.00004 | 0.00007 | 0.00001 | 0.00003 | 0.00002 | 0.00001 | 0.00001 | 0.00001 | 0.00001 |

The evaluation of new MRLs for mefentrifluconazole in or on various commodities

|                      |       |             |             |         |             |             |             |             |         |         |         |
|----------------------|-------|-------------|-------------|---------|-------------|-------------|-------------|-------------|---------|---------|---------|
| Raspberries          | 0.06  | 0.0000<br>2 | L/C         | 0.00014 | 0.0000<br>4 | 0.0000<br>6 | 0.0000<br>2 | 0.0000<br>0 | 0.00002 | 0.00005 | 0.00002 |
| Gooseberries         | 0.06  | 0.0000<br>1 | 0.0000<br>3 | 0.00004 | 0.0000<br>1 | 0.0000<br>1 | 0.0000<br>1 | 0.0000<br>1 | 0.00004 | 0.00005 | 0.00001 |
| Blackcurrants        | 0.06  | 0.0000<br>3 | 0.0000<br>7 | 0.00011 | 0.0001<br>1 | 0.0000<br>8 | 0.0000<br>6 | 0.0000<br>7 | 0.00002 | 0.00003 | 0.00002 |
| Red currants         | 0.06  | 0.0000<br>0 | L/C         | 0.00005 | L/C         | 0.0000<br>0 | 0.0000<br>1 | 0.0000<br>0 | 0.00000 | 0.00002 | L/C     |
| White currants       | 0.06  | L/C         | L/C         | L/C     | L/C         | L/C         | L/C         | L/C         | L/C     | L/C     | L/C     |
| Avocados             | 0.029 | 0.0000<br>2 | L/C         | 0.00004 | L/C         | L/C         | L/C         | 0.0000<br>1 | 0.00002 | 0.00002 | L/C     |
| Bananas              | 0.05  | 0.0001<br>0 | 0.0003<br>5 | 0.00033 | 0.0002<br>2 | 0.0001<br>7 | 0.0001<br>0 | 0.0000<br>7 | 0.00011 | 0.00008 | 0.00009 |
| Olives               | 0.635 | 0.0001<br>6 | L/C         | 0.00039 | 0.0003<br>8 | L/C         | 0.0000<br>3 | L/C         | 0.00013 | 0.00028 | L/C     |
| Beetroot             | 0.184 | 0.0000<br>7 | L/C         | 0.00028 | 0.0000<br>7 | 0.0000<br>6 | 0.0000<br>6 | 0.0000<br>4 | 0.00009 | 0.00009 | 0.00003 |
| Carrots              | 0.184 | 0.0001<br>3 | 0.0006<br>5 | 0.00045 | 0.0003<br>5 | 0.0002<br>3 | 0.0001<br>6 | 0.0001<br>8 | 0.00016 | 0.00018 | 0.00014 |
| Celeriac             | 0.184 | 0.0000<br>7 | L/C         | L/C     | 0.0000<br>1 | 0.0000<br>1 | L/C         | L/C         | L/C     | L/C     | L/C     |
| Horseradish          | 0.184 | 0.0000<br>0 | L/C         | L/C     | L/C         | L/C         | L/C         | L/C         | L/C     | 0.00000 | L/C     |
| Jerusalem artichokes | 0.184 | 0.0000<br>3 | L/C         | L/C     | L/C         | L/C         | L/C         | L/C         | L/C     | L/C     | L/C     |
| Parsnips             | 0.184 | 0.0000<br>6 | 0.0001<br>7 | 0.00022 | 0.0001<br>3 | 0.0000<br>9 | 0.0000<br>7 | 0.0000<br>5 | 0.00008 | 0.00011 | 0.00005 |
| Radishes             | 0.184 | 0.0000<br>6 | L/C         | 0.00018 | L/C         | 0.0000<br>4 | 0.0000<br>2 | 0.0000<br>2 | 0.00006 | 0.00004 | 0.00002 |
| Salsify              | 0.184 | L/C         | L/C         | L/C     | L/C         | L/C         | L/C         | L/C         | L/C     | L/C     | L/C     |
| Swedes               | 0.184 | 0.0000<br>9 | 0.0005<br>1 | 0.00031 | 0.0001<br>3 | 0.0001<br>4 | 0.0001<br>1 | 0.0000<br>9 | 0.00009 | 0.00012 | 0.00009 |
| Turnips              | 0.184 | 0.0000<br>6 | L/C         | 0.00018 | 0.0001<br>6 | 0.0001<br>0 | 0.0001<br>0 | 0.0000<br>6 | 0.00003 | 0.00011 | 0.00008 |
| Yam                  | 0.184 | 0.0005<br>4 | L/C         | L/C     | L/C         | L/C         | L/C         | L/C         | L/C     | L/C     | L/C     |
| Garlic               | 0.06  | 0.0000<br>0 | L/C         | 0.00000 | 0.0000<br>1 | 0.0000<br>1 | 0.0000<br>0 | 0.0000<br>1 | 0.00001 | 0.00001 | L/C     |
| Onions               | 0.06  | 0.0000<br>3 | 0.0000<br>7 | 0.00007 | 0.0000<br>6 | 0.0000<br>5 | 0.0000<br>4 | 0.0000<br>3 | 0.00004 | 0.00003 | 0.00002 |
| Spring onions        | 0.06  | 0.0000<br>2 | L/C         | 0.00001 | 0.0000<br>4 | 0.0000<br>1 | 0.0000<br>1 | 0.0000<br>1 | 0.00002 | 0.00002 | 0.00001 |
| Tomatoes             | 0.12  | 0.0001<br>7 | 0.0002<br>2 | 0.00032 | 0.0002<br>3 | 0.0002<br>2 | 0.0001<br>3 | 0.0001<br>6 | 0.00021 | 0.00017 | 0.00016 |
| Peppers              | 0.12  | 0.0000<br>4 | L/C         | 0.00010 | 0.0000<br>5 | 0.0000<br>8 | 0.0000<br>4 | 0.0000<br>3 | 0.00007 | 0.00007 | 0.00002 |
| Aubergines           | 0.12  | 0.0000<br>4 | L/C         | 0.00018 | 0.0000<br>9 | 0.0000<br>3 | 0.0000<br>6 | 0.0000<br>5 | 0.00007 | 0.00005 | L/C     |
| Marrows              | 0.12  | 0.0000<br>6 | L/C         | 0.00019 | 0.0000<br>5 | 0.0000<br>7 | 0.0000<br>8 | 0.0000<br>3 | 0.00006 | 0.00016 | 0.00008 |
| Cucumbers            | 0.12  | 0.0000<br>5 | 0.0000<br>3 | 0.00029 | 0.0001<br>8 | 0.0001<br>3 | 0.0000<br>6 | 0.0000<br>6 | 0.00007 | 0.00006 | 0.00002 |
| Gourd                | 0.12  | 0.0000<br>6 | L/C         | L/C     | L/C         | L/C         | 0.0000<br>3 | L/C         | 0.00002 | L/C     | L/C     |
| Courgettes           | 0.12  | 0.0000<br>5 | 0.0001<br>8 | 0.00028 | 0.0001<br>5 | 0.0000<br>9 | 0.0000<br>5 | 0.0000<br>5 | 0.00007 | 0.00006 | 0.00005 |

The evaluation of new MRLs for mefentrifluconazole in or on various commodities

|                    |       |             |             |         |             |             |             |             |         |         |         |
|--------------------|-------|-------------|-------------|---------|-------------|-------------|-------------|-------------|---------|---------|---------|
| Melons             | 0.12  | 0.0003<br>0 | 0.0003<br>7 | 0.00063 | 0.0004<br>2 | 0.0003<br>7 | 0.0002<br>6 | 0.0003<br>3 | 0.00030 | 0.00036 | 0.00012 |
| Sweet corn         | 0.12  | 0.0000<br>6 | 0.0001<br>2 | 0.00027 | 0.0001<br>3 | 0.0001<br>4 | 0.0000<br>6 | 0.0000<br>7 | 0.00007 | 0.00010 | 0.00004 |
| Broccoli           | 0.17  | 0.0001<br>1 | 0.0002<br>0 | 0.00029 | 0.0002<br>1 | 0.0001<br>8 | 0.0001<br>2 | 0.0001<br>1 | 0.00012 | 0.00016 | 0.00006 |
| Cauliflower        | 0.17  | 0.0001<br>5 | 0.0005<br>4 | 0.00037 | 0.0002<br>8 | 0.0001<br>5 | 0.0001<br>3 | 0.0001<br>5 | 0.00021 | 0.00019 | 0.00011 |
| Brussels sprouts   | 0.17  | 0.0001<br>0 | 0.0004<br>0 | 0.00030 | 0.0002<br>5 | 0.0001<br>3 | 0.0001<br>6 | 0.0001<br>1 | 0.00014 | 0.00016 | 0.00008 |
| Head cabbage       | 0.17  | 0.0000<br>9 | 0.0003<br>0 | 0.00029 | 0.0002<br>1 | 0.0001<br>3 | 0.0001<br>2 | 0.0000<br>9 | 0.00013 | 0.00020 | 0.00013 |
| Chinese cabbage    | 0.17  | 0.0000<br>8 | L/C         | L/C     | L/C         | L/C         | L/C         | L/C         | 0.00009 | 0.00006 | L/C     |
| Kohl Rabi          | 0.17  | L/C         | L/C         | L/C     | L/C         | L/C         | L/C         | L/C         | L/C     | L/C     | L/C     |
| Cress              | 0.047 | 0.0000<br>0 | L/C         | 0.00000 | 0.0000<br>0 | 0.0000<br>0 | 0.0000<br>0 | 0.0000<br>0 | 0.00000 | 0.00000 | 0.00000 |
| Lettuce            | 0.047 | 0.0000<br>3 | 0.0000<br>2 | 0.00004 | 0.0000<br>3 | 0.0000<br>3 | 0.0000<br>2 | 0.0000<br>2 | 0.00003 | 0.00003 | 0.00001 |
| Spinach            | 0.047 | 0.0000<br>2 | 0.0000<br>5 | 0.00007 | 0.0000<br>4 | 0.0000<br>4 | 0.0000<br>3 | 0.0000<br>2 | 0.00003 | 0.00003 | 0.00002 |
| Watercress         | 0.047 | 0.0000<br>1 | L/C         | L/C     | 0.0000<br>0 | 0.0000<br>0 | 0.0000<br>1 | L/C         | 0.00001 | 0.00001 | L/C     |
| Chicory            | 0.047 | 0.0000<br>0 | L/C         | L/C     | L/C         | L/C         | L/C         | L/C         | 0.00000 | L/C     | L/C     |
| Parsley            | 0.047 | 0.0000<br>1 | L/C         | 0.00001 | L/C         | 0.0000<br>1 | 0.0000<br>0 | 0.0000<br>0 | 0.00001 | 0.00001 | 0.00002 |
| Beans with pods    | 0.09  | 0.0000<br>5 | 0.0001<br>1 | 0.00017 | 0.0001<br>2 | 0.0000<br>6 | 0.0000<br>3 | 0.0000<br>6 | 0.00004 | 0.00007 | 0.00003 |
| Runner Beans       | 0.09  | 0.0000<br>6 | L/C         | 0.00013 | 0.0000<br>4 | 0.0000<br>7 | 0.0000<br>5 | 0.0000<br>4 | 0.00014 | 0.00009 | 0.00005 |
| Beans without pods | 0.135 | 0.0000<br>6 | 0.0000<br>8 | 0.00032 | 0.0000<br>5 | 0.0001<br>4 | 0.0000<br>5 | 0.0000<br>6 | 0.00009 | 0.00011 | 0.00007 |
| Peas with pods     | 0.09  | 0.0000<br>3 | L/C         | 0.00004 | 0.0001<br>1 | 0.0000<br>2 | 0.0000<br>3 | 0.0000<br>1 | 0.00002 | 0.00005 | L/C     |
| Peas without pods  | 0.32  | 0.0002<br>5 | 0.0007<br>7 | 0.00065 | 0.0004<br>5 | 0.0003<br>3 | 0.0002<br>4 | 0.0002<br>9 | 0.00028 | 0.00032 | 0.00023 |
| Beansprouts        | 0.09  | 0.0000<br>4 | L/C         | 0.00008 | 0.0000<br>5 | 0.0000<br>5 | 0.0000<br>3 | 0.0000<br>2 | 0.00003 | 0.00005 | 0.00002 |
| Asparagus          | 0.09  | 0.0000<br>4 | L/C         | L/C     | L/C         | L/C         | L/C         | 0.0000<br>2 | 0.00007 | 0.00004 | L/C     |
| Bamboo shoots      | 0.09  | 0.0000<br>1 | L/C         | 0.00003 | L/C         | 0.0000<br>0 | 0.0000<br>2 | 0.0000<br>0 | 0.00002 | 0.00001 | L/C     |
| Celery             | 0.09  | 0.0000<br>3 | 0.0000<br>4 | 0.00004 | 0.0000<br>3 | 0.0000<br>1 | 0.0000<br>2 | 0.0000<br>2 | 0.00004 | 0.00004 | 0.00001 |
| Fennel             | 0.09  | 0.0000<br>3 | L/C         | L/C     | L/C         | L/C         | L/C         | L/C         | L/C     | L/C     | L/C     |
| Globe artichokes   | 0.09  | 0.0000<br>3 | L/C         | L/C     | L/C         | L/C         | L/C         | L/C         | 0.00002 | L/C     | L/C     |
| Leeks              | 0.09  | 0.0000<br>4 | L/C         | 0.00006 | 0.0000<br>3 | 0.0000<br>3 | 0.0000<br>3 | 0.0000<br>2 | 0.00004 | 0.00005 | 0.00003 |
| Rhubarb            | 0.09  | 0.0000<br>4 | 0.0000<br>7 | 0.00010 | 0.0000<br>2 | 0.0000<br>5 | 0.0000<br>1 | 0.0000<br>1 | 0.00003 | 0.00006 | 0.00004 |
| Beans              | 0.29  | 0.0004<br>5 | 0.0017<br>1 | 0.00137 | 0.0009<br>7 | 0.0008<br>3 | 0.0006<br>1 | 0.0006<br>2 | 0.00051 | 0.00041 | 0.00028 |
| Lentils            | 0.29  | 0.0002<br>1 | 0.0004<br>2 | 0.00054 | 0.0005<br>7 | 0.0001<br>9 | 0.0003<br>6 | 0.0001<br>5 | 0.00020 | 0.00015 | 0.00007 |

The evaluation of new MRLs for mefentrifluconazole in or on various commodities

|                            |       |             |             |         |             |             |             |             |         |         |         |
|----------------------------|-------|-------------|-------------|---------|-------------|-------------|-------------|-------------|---------|---------|---------|
| dried Peas                 | 0.29  | 0.0002<br>0 | L/C         | 0.00051 | 0.0001<br>3 | 0.0002<br>1 | 0.0003<br>5 | 0.0001<br>9 | 0.00017 | 0.00031 | 0.00021 |
| Oilseeds                   | 1.039 | 0.0033<br>0 | 0.0065<br>5 | 0.00753 | 0.0074<br>3 | 0.0058<br>1 | 0.0041<br>9 | 0.0036<br>6 | 0.00486 | 0.00333 | 0.00401 |
| Potatoes                   | 0.184 | 0.0006<br>0 | 0.0020<br>5 | 0.00169 | 0.0015<br>2 | 0.0012<br>9 | 0.0009<br>8 | 0.0008<br>4 | 0.00065 | 0.00060 | 0.00059 |
| Hops (dried 0.25% of beer) | 0.455 | 0.0000<br>3 | L/C         | L/C     | L/C         | L/C         | 0.0000<br>0 | 0.0000<br>2 | 0.00002 | 0.00003 | 0.00002 |
| Oats                       | 0.621 | 0.0002<br>2 | 0.0013<br>6 | 0.00075 | 0.0004<br>8 | 0.0002<br>8 | 0.0002<br>2 | 0.0004<br>0 | 0.00040 | 0.00033 | 0.00035 |
| Barley                     | 0.621 | 0.0001<br>5 | L/C         | 0.00021 | 0.0002<br>2 | 0.0005<br>0 | 0.0001<br>2 | 0.0001<br>4 | 0.00016 | 0.00016 | 0.00009 |
| Millet                     | 0.621 | L/C         | L/C         | 0.00018 | L/C         | L/C         | L/C         | L/C         | L/C     | L/C     | L/C     |
| Buckwheat                  | 0.621 | L/C         | L/C         | L/C     | L/C         | L/C         | L/C         | L/C         | L/C     | L/C     | L/C     |
| Maize                      | 0.621 | 0.0000<br>4 | 0.0028<br>5 | 0.00045 | 0.0003<br>1 | 0.0001<br>2 | 0.0001<br>0 | 0.0001<br>1 | 0.00020 | 0.00009 | 0.00005 |
| Wheat                      | 0.621 | 0.0022<br>4 | 0.0017<br>4 | 0.00528 | 0.0055<br>2 | 0.0041<br>8 | 0.0031<br>0 | 0.0025<br>1 | 0.00265 | 0.00203 | 0.00215 |
| Rice                       | 0.621 | 0.0014<br>0 | 0.0017<br>4 | 0.00294 | 0.0023<br>1 | 0.0031<br>5 | 0.0024<br>4 | 0.0016<br>5 | 0.00125 | 0.00074 | 0.00030 |
| Rye                        | 0.621 | 0.0003<br>2 | 0.0008<br>5 | 0.00024 | 0.0002<br>8 | 0.0002<br>9 | 0.0001<br>6 | 0.0000<br>7 | 0.00037 | 0.00028 | 0.00010 |
| Poultry                    | 0.09  | 0.0001<br>5 | 0.0001<br>6 | 0.00027 | 0.0002<br>5 | 0.0001<br>6 | 0.0001<br>4 | 0.0001<br>4 | 0.00015 | 0.00015 | 0.00007 |
| Meat fat                   | 0.03  | 0.0000<br>1 | 0.0000<br>1 | 0.00002 | 0.0000<br>1 | 0.0000<br>1 | 0.0000<br>1 | 0.0000<br>1 | 0.00000 | 0.00001 | 0.00000 |
| Meat excl. poultry & offal | 0.06  | 0.0001<br>1 | 0.0002<br>4 | 0.00025 | 0.0002<br>1 | 0.0001<br>8 | 0.0001<br>2 | 0.0001<br>3 | 0.00002 | 0.00011 | 0.00010 |
| All types of kidney        | 0.06  | 0.0000<br>2 | 0.0000<br>3 | 0.00008 | 0.0000<br>2 | 0.0000<br>1 | 0.0000<br>1 | 0.0000<br>2 | L/C     | 0.00003 | 0.00002 |
| All types of Liver         | 0.13  | 0.0000<br>6 | 0.0002<br>9 | 0.00031 | 0.0000<br>5 | 0.0000<br>6 | 0.0000<br>8 | 0.0000<br>4 | L/C     | 0.00009 | 0.00006 |
| Other types of offal       | 0.13  | 0.0000<br>9 | 0.0002<br>0 | 0.00028 | 0.0001<br>4 | 0.0001<br>2 | 0.0001<br>3 | 0.0000<br>6 | 0.00002 | 0.00010 | 0.00009 |
| Eggs                       | 0.02  | 0.0000<br>2 | 0.0000<br>9 | 0.00007 | 0.0000<br>5 | 0.0000<br>3 | 0.0000<br>3 | 0.0000<br>2 | 0.00002 | 0.00002 | 0.00003 |
| Milk                       | 0.02  | 0.0001<br>6 | 0.0019<br>5 | 0.00112 | 0.0005<br>9 | 0.0003<br>6 | 0.0002<br>4 | 0.0001<br>9 | 0.00019 | 0.00017 | 0.00024 |
| Sugar beet                 | 0.184 | 0.0025<br>7 | 0.0061<br>4 | 0.01025 | 0.0061<br>9 | 0.0057<br>8 | 0.0036<br>8 | 0.0035<br>5 | 0.00220 | 0.00195 | 0.00279 |

\* 0.00000 corresponds to <0.000005 mg/kg bw/day (any value ≥0.000005 is rounded to 0.00001)

L/C Low consumption (<0.1 g/day) or low number of consumers (<4)

The evaluation of new MRLs for mefentrifluconazole in or on various commodities

# TAA

Active substance: TAA

ADI: 1 mg/kg bw/day

Source:

| TOTAL INTAKE based on 97.5th percentile |         |         |         |           |            |             |             |            |                    |                       |
|-----------------------------------------|---------|---------|---------|-----------|------------|-------------|-------------|------------|--------------------|-----------------------|
|                                         | ADULT   | INFANT  | TODDLER | 4-6 YEARS | 7-10 YEARS | 11-14 YEARS | 15-18 YEARS | VEGETARIAN | ELDERLY (OWN HOME) | ELDERLY (RESIDENTIAL) |
| mg/kg bw/day                            | 0.00519 | 0.01001 | 0.01222 | 0.01145   | 0.01039    | 0.00776     | 0.00590     | 0.00561    | 0.00390            | 0.00373               |
| % of ADI                                | <1%     | 1%      | 1%      | 1%        | 1%         | <1%         | <1%         | <1%        | <1%                | <1%                   |

| STMR         |         | P | COMMODITY INTAKES |         |         |         |         |         |         |         |         |         |
|--------------|---------|---|-------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Commodity    | (mg/kg) |   | (mg/kg bw/day)    |         |         |         |         |         |         |         |         |         |
| Grapefruit   | 0.05    |   | 0.00010           | 0.00008 | 0.00029 | 0.00026 | 0.00058 | 0.00010 | 0.00007 | 0.00012 | 0.00012 | 0.00010 |
| Lemons       | 0.05    |   | 0.00001           | 0.00003 | 0.00002 | 0.00001 | 0.00000 | 0.00000 | 0.00001 | 0.00001 | 0.00002 | 0.00000 |
| Limes        | 0.05    |   | 0.00001           | L/C     | 0.00008 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00002 | 0.00003 |
| Mandarins    | 0.05    |   | 0.00007           | L/C     | 0.00032 | 0.00018 | 0.00015 | 0.00008 | 0.00008 | 0.00006 | 0.00008 | 0.00003 |
| Oranges      | 0.05    |   | 0.00019           | 0.00054 | 0.00082 | 0.00056 | 0.00042 | 0.00040 | 0.00033 | 0.00023 | 0.00018 | 0.00014 |
| Pistachios   | 0.01    |   | 0.00000           | L/C     | 0.00000 | L/C     | 0.00000 | L/C     | L/C     | 0.00000 | L/C     | L/C     |
| Apples       | 0.03    |   | 0.00008           | 0.00025 | 0.00045 | 0.00028 | 0.00023 | 0.00012 | 0.00011 | 0.00010 | 0.00007 | 0.00003 |
| Pears        | 0.03    |   | 0.00004           | 0.00008 | 0.00020 | 0.00011 | 0.00007 | 0.00006 | 0.00004 | 0.00006 | 0.00007 | 0.00004 |
| Apricots     | 0.02    |   | 0.00001           | 0.00003 | 0.00002 | 0.00001 | 0.00001 | 0.00001 | 0.00000 | 0.00002 | 0.00001 | 0.00001 |
| Peaches      | 0.02    |   | 0.00003           | 0.00003 | 0.00006 | 0.00003 | 0.00002 | 0.00002 | 0.00001 | 0.00002 | 0.00002 | 0.00001 |
| Plums        | 0.02    |   | 0.00002           | 0.00001 | 0.00004 | 0.00003 | 0.00002 | 0.00001 | 0.00000 | 0.00001 | 0.00001 | 0.00000 |
| Cherries     | 0.02    |   | 0.00001           | 0.00003 | 0.00002 | 0.00003 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00000 |
| Table grapes | 0.05    |   | 0.00007           | 0.00008 | 0.00023 | 0.00011 | 0.00013 | 0.00006 | 0.00003 | 0.00010 | 0.00007 | 0.00002 |
| Wine grapes  | 0.05    |   | 0.00049           | 0.00006 | 0.00004 | 0.00005 | 0.00002 | 0.00005 | 0.00018 | 0.00049 | 0.00033 | 0.00007 |
| Strawberries | 0.05    |   | 0.00003           | 0.00010 | 0.00010 | 0.00007 | 0.00004 | 0.00003 | 0.00003 | 0.00005 | 0.00005 | 0.00003 |
| Blackberries | 0.05    |   | 0.00001           | L/C     | 0.00010 | 0.00000 | 0.00002 | 0.00001 | 0.00000 | 0.00002 | 0.00001 | 0.00000 |
| Loganberries | 0.05    |   | 0.00000           | 0.00003 | 0.00006 | 0.00001 | 0.00003 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 |

The evaluation of new MRLs for mefentrifluconazole in or on various commodities

|                      |      |  |         |         |         |         |         |         |         |         |         |         |
|----------------------|------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Raspberries          | 0.05 |  | 0.00002 | L/C     | 0.00012 | 0.00003 | 0.00005 | 0.00001 | 0.00000 | 0.00002 | 0.00004 | 0.00002 |
| Gooseberries         | 0.05 |  | 0.00001 | 0.00003 | 0.00003 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00004 | 0.00004 | 0.00001 |
| Blackcurrants        | 0.05 |  | 0.00003 | 0.00006 | 0.00009 | 0.00009 | 0.00007 | 0.00005 | 0.00006 | 0.00002 | 0.00003 | 0.00001 |
| Red currants         | 0.05 |  | 0.00000 | L/C     | 0.00004 | L/C     | 0.00000 | 0.00001 | 0.00000 | 0.00000 | 0.00002 | L/C     |
| White currants       | 0.05 |  | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     |
| Avocados             | 0.01 |  | 0.00001 | L/C     | 0.00001 | L/C     | L/C     | L/C     | 0.00000 | 0.00001 | 0.00001 | L/C     |
| Bananas              | 0.05 |  | 0.00010 | 0.00035 | 0.00033 | 0.00022 | 0.00017 | 0.00010 | 0.00007 | 0.00011 | 0.00008 | 0.00009 |
| Beetroot             | 0.01 |  | 0.00000 | L/C     | 0.00001 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Carrots              | 0.01 |  | 0.00001 | 0.00004 | 0.00002 | 0.00002 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 |
| Celeriac             | 0.01 |  | 0.00000 | L/C     | L/C     | 0.00000 | 0.00000 | L/C     | L/C     | L/C     | L/C     | L/C     |
| Horseradish          | 0.01 |  | 0.00000 | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | 0.00000 | L/C     |
| Jerusalem artichokes | 0.01 |  | 0.00000 | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     |
| Parsnips             | 0.01 |  | 0.00000 | 0.00001 | 0.00001 | 0.00001 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00001 | 0.00000 |
| Radishes             | 0.01 |  | 0.00000 | L/C     | 0.00001 | L/C     | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Salsify              | 0.01 |  | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     |
| Swedes               | 0.01 |  | 0.00000 | 0.00003 | 0.00002 | 0.00001 | 0.00001 | 0.00001 | 0.00000 | 0.00000 | 0.00001 | 0.00000 |
| Turnips              | 0.01 |  | 0.00000 | L/C     | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00000 | 0.00000 | 0.00001 | 0.00000 |
| Yam                  | 0.01 |  | 0.00003 | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     |
| Garlic               | 0.01 |  | 0.00000 | L/C     | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | L/C     |
| Onions               | 0.01 |  | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00000 |
| Spring onions        | 0.01 |  | 0.00000 | L/C     | 0.00000 | 0.00001 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Tomatoes             | 0.01 |  | 0.00001 | 0.00002 | 0.00003 | 0.00002 | 0.00002 | 0.00001 | 0.00001 | 0.00002 | 0.00001 | 0.00001 |
| Peppers              | 0.01 |  | 0.00000 | L/C     | 0.00001 | 0.00000 | 0.00001 | 0.00000 | 0.00000 | 0.00001 | 0.00001 | 0.00000 |
| Aubergines           | 0.01 |  | 0.00000 | L/C     | 0.00002 | 0.00001 | 0.00000 | 0.00001 | 0.00000 | 0.00001 | 0.00000 | L/C     |
| Marrows              | 0.01 |  | 0.00001 | L/C     | 0.00002 | 0.00000 | 0.00001 | 0.00001 | 0.00000 | 0.00001 | 0.00001 | 0.00001 |
| Cucumbers            | 0.01 |  | 0.00000 | 0.00000 | 0.00002 | 0.00002 | 0.00001 | 0.00001 | 0.00000 | 0.00001 | 0.00000 | 0.00000 |
| Gourd                | 0.01 |  | 0.00001 | L/C     | L/C     | L/C     | L/C     | 0.00000 | L/C     | 0.00000 | L/C     | L/C     |
| Courgettes           | 0.01 |  | 0.00000 | 0.00001 | 0.00002 | 0.00001 | 0.00001 | 0.00000 | 0.00000 | 0.00001 | 0.00001 | 0.00000 |
| Melons               | 0.01 |  | 0.00002 | 0.00003 | 0.00005 | 0.00004 | 0.00003 | 0.00002 | 0.00003 | 0.00003 | 0.00003 | 0.00001 |

The evaluation of new MRLs for mefentrifluconazole in or on various commodities

|                    |       |  |         |         |         |         |         |         |         |         |         |         |
|--------------------|-------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Sweet corn         | 0.01  |  | 0.00001 | 0.00001 | 0.00002 | 0.00001 | 0.00001 | 0.00000 | 0.00001 | 0.00001 | 0.00001 | 0.00000 |
| Broccoli           | 0.01  |  | 0.00001 | 0.00001 | 0.00002 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00000 |
| Cauliflower        | 0.01  |  | 0.00001 | 0.00003 | 0.00002 | 0.00002 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 |
| Brussels sprouts   | 0.01  |  | 0.00001 | 0.00002 | 0.00002 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00000 |
| Head cabbage       | 0.01  |  | 0.00001 | 0.00002 | 0.00002 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 |
| Chinese cabbage    | 0.01  |  | 0.00000 | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | 0.00001 | 0.00000 | L/C     |
| Kohl Rabi          | 0.01  |  | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     |
| Cress              | 0.023 |  | 0.00000 | L/C     | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Lettuce            | 0.023 |  | 0.00001 | 0.00001 | 0.00002 | 0.00002 | 0.00002 | 0.00001 | 0.00001 | 0.00002 | 0.00001 | 0.00001 |
| Spinach            | 0.023 |  | 0.00001 | 0.00002 | 0.00004 | 0.00002 | 0.00002 | 0.00001 | 0.00001 | 0.00002 | 0.00001 | 0.00001 |
| Watercress         | 0.023 |  | 0.00000 | L/C     | L/C     | 0.00000 | 0.00000 | 0.00000 | L/C     | 0.00001 | 0.00001 | L/C     |
| Chicory            | 0.023 |  | 0.00000 | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | 0.00000 | L/C     | L/C     |
| Parsley            | 0.023 |  | 0.00000 | L/C     | 0.00000 | L/C     | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00001 |
| Beans with pods    | 0.01  |  | 0.00001 | 0.00001 | 0.00002 | 0.00001 | 0.00001 | 0.00000 | 0.00001 | 0.00000 | 0.00001 | 0.00000 |
| Runner Beans       | 0.01  |  | 0.00001 | L/C     | 0.00001 | 0.00000 | 0.00001 | 0.00001 | 0.00000 | 0.00002 | 0.00001 | 0.00001 |
| Beans without pods | 0.01  |  | 0.00000 | 0.00001 | 0.00002 | 0.00000 | 0.00001 | 0.00000 | 0.00000 | 0.00001 | 0.00001 | 0.00001 |
| Peas with pods     | 0.01  |  | 0.00000 | L/C     | 0.00000 | 0.00001 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00001 | L/C     |
| Peas without pods  | 0.01  |  | 0.00001 | 0.00002 | 0.00002 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 |
| Beansprouts        | 0.01  |  | 0.00000 | L/C     | 0.00001 | 0.00001 | 0.00001 | 0.00000 | 0.00000 | 0.00000 | 0.00001 | 0.00000 |
| Asparagus          | 0.02  |  | 0.00001 | L/C     | L/C     | L/C     | L/C     | L/C     | 0.00000 | 0.00002 | 0.00001 | L/C     |
| Bamboo shoots      | 0.02  |  | 0.00000 | L/C     | 0.00001 | L/C     | 0.00000 | 0.00001 | 0.00000 | 0.00000 | 0.00000 | L/C     |
| Celery             | 0.02  |  | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00000 | 0.00001 | 0.00000 | 0.00001 | 0.00001 | 0.00000 |
| Fennel             | 0.02  |  | 0.00001 | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     |
| Globe artichokes   | 0.02  |  | 0.00001 | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | 0.00000 | L/C     | L/C     |
| Leeks              | 0.02  |  | 0.00001 | L/C     | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00000 | 0.00001 | 0.00001 | 0.00001 |
| Rhubarb            | 0.02  |  | 0.00001 | 0.00001 | 0.00002 | 0.00000 | 0.00001 | 0.00000 | 0.00000 | 0.00001 | 0.00001 | 0.00001 |
| Beans              | 0.05  |  | 0.00008 | 0.00030 | 0.00024 | 0.00017 | 0.00014 | 0.00010 | 0.00011 | 0.00009 | 0.00007 | 0.00005 |
| Lentils            | 0.05  |  | 0.00004 | 0.00007 | 0.00009 | 0.00010 | 0.00003 | 0.00006 | 0.00003 | 0.00004 | 0.00003 | 0.00001 |
| dried Peas         | 0.05  |  | 0.00003 | L/C     | 0.00009 | 0.00002 | 0.00004 | 0.00006 | 0.00003 | 0.00003 | 0.00005 | 0.00004 |

The evaluation of new MRLs for mefentrifluconazole in or on various commodities

|                            |       |  |         |         |         |         |         |         |         |         |         |         |
|----------------------------|-------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Oilseeds                   | 0.135 |  | 0.00043 | 0.00085 | 0.00098 | 0.00097 | 0.00076 | 0.00054 | 0.00048 | 0.00063 | 0.00043 | 0.00052 |
| Potatoes                   | 0.01  |  | 0.00003 | 0.00011 | 0.00009 | 0.00008 | 0.00007 | 0.00005 | 0.00005 | 0.00004 | 0.00003 | 0.00003 |
| Hops (dried 0.25% of beer) | 0.012 |  | 0.00000 | L/C     | L/C     | L/C     | L/C     | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Oats                       | 0.79  |  | 0.00028 | 0.00173 | 0.00096 | 0.00061 | 0.00036 | 0.00028 | 0.00051 | 0.00050 | 0.00042 | 0.00045 |
| Barley                     | 0.79  |  | 0.00020 | L/C     | 0.00026 | 0.00027 | 0.00063 | 0.00015 | 0.00018 | 0.00020 | 0.00020 | 0.00012 |
| Millet                     | 0.79  |  | L/C     | L/C     | 0.00023 | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     |
| Buckwheat                  | 0.79  |  | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     |
| Maize                      | 0.79  |  | 0.00005 | 0.00362 | 0.00057 | 0.00039 | 0.00015 | 0.00013 | 0.00013 | 0.00026 | 0.00012 | 0.00007 |
| Wheat                      | 0.79  |  | 0.00285 | 0.00222 | 0.00671 | 0.00702 | 0.00532 | 0.00394 | 0.00319 | 0.00336 | 0.00258 | 0.00273 |
| Rice                       | 0.79  |  | 0.00178 | 0.00222 | 0.00374 | 0.00293 | 0.00401 | 0.00310 | 0.00210 | 0.00158 | 0.00094 | 0.00038 |
| Rye                        | 0.79  |  | 0.00041 | 0.00108 | 0.00030 | 0.00035 | 0.00037 | 0.00020 | 0.00009 | 0.00047 | 0.00035 | 0.00012 |
| Poultry                    | 0.03  |  | 0.00005 | 0.00005 | 0.00009 | 0.00008 | 0.00005 | 0.00005 | 0.00005 | 0.00005 | 0.00005 | 0.00002 |
| Meat fat                   | 0.03  |  | 0.00001 | 0.00001 | 0.00002 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00000 | 0.00001 | 0.00000 |
| Meat excl. poultry & offal | 0.03  |  | 0.00006 | 0.00012 | 0.00012 | 0.00010 | 0.00009 | 0.00006 | 0.00006 | 0.00001 | 0.00005 | 0.00005 |
| All types of kidney        | 0.05  |  | 0.00001 | 0.00002 | 0.00007 | 0.00002 | 0.00001 | 0.00001 | 0.00002 | L/C     | 0.00002 | 0.00002 |
| All types of Liver         | 0.03  |  | 0.00001 | 0.00007 | 0.00007 | 0.00001 | 0.00001 | 0.00002 | 0.00001 | L/C     | 0.00002 | 0.00001 |
| Other types of offal       | 0.05  |  | 0.00003 | 0.00008 | 0.00011 | 0.00005 | 0.00005 | 0.00005 | 0.00002 | 0.00001 | 0.00004 | 0.00004 |
| Eggs                       | 0.03  |  | 0.00003 | 0.00014 | 0.00010 | 0.00007 | 0.00005 | 0.00004 | 0.00003 | 0.00003 | 0.00003 | 0.00004 |
| Milk                       | 0.03  |  | 0.00025 | 0.00293 | 0.00167 | 0.00088 | 0.00055 | 0.00035 | 0.00028 | 0.00029 | 0.00026 | 0.00035 |
| Sugar beet                 | 0.01  |  | 0.00014 | 0.00033 | 0.00056 | 0.00034 | 0.00031 | 0.00020 | 0.00019 | 0.00012 | 0.00011 | 0.00015 |

\* 0.00000 corresponds to <0.000005 mg/kg bw/day (any value ≥0.000005 is rounded to 0.00001)

L/C Low consumption (<0.1 g/day) or low number of consumers (<4)

The evaluation of new MRLs for mefentrifluconazole in or on various commodities

**TLA**

Active substance: TLA

ADI: 0.3 mg/kg bw/day

Source:

| TOTAL INTAKE based on 97.5th percentile |         |         |         |           |            |             |             |            |                    |                       |
|-----------------------------------------|---------|---------|---------|-----------|------------|-------------|-------------|------------|--------------------|-----------------------|
|                                         | ADULT   | INFANT  | TODDLER | 4-6 YEARS | 7-10 YEARS | 11-14 YEARS | 15-18 YEARS | VEGETARIAN | ELDERLY (OWN HOME) | ELDERLY (RESIDENTIAL) |
| mg/kg bw/day                            | 0.00128 | 0.00525 | 0.00382 | 0.00284   | 0.00218    | 0.00149     | 0.00139     | 0.00138    | 0.00104            | 0.00102               |
| % of ADI                                | <1%     | 2%      | 1%      | <1%       | <1%        | <1%         | <1%         | <1%        | <1%                | <1%                   |

| STMR         |         | P | COMMODITY INTAKES |         |         |         |         |         |         |         |         |         |
|--------------|---------|---|-------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Commodity    | (mg/kg) |   | (mg/kg bw/day)    |         |         |         |         |         |         |         |         |         |
| Grapefruit   | 0.04    |   | 0.00008           | 0.00006 | 0.00023 | 0.00021 | 0.00046 | 0.00008 | 0.00006 | 0.00009 | 0.00010 | 0.00008 |
| Lemons       | 0.04    |   | 0.00001           | 0.00003 | 0.00001 | 0.00001 | 0.00000 | 0.00000 | 0.00001 | 0.00001 | 0.00001 | 0.00000 |
| Limes        | 0.04    |   | 0.00001           | L/C     | 0.00007 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00002 |
| Mandarins    | 0.04    |   | 0.00006           | L/C     | 0.00026 | 0.00014 | 0.00012 | 0.00006 | 0.00007 | 0.00005 | 0.00006 | 0.00003 |
| Oranges      | 0.04    |   | 0.00015           | 0.00043 | 0.00066 | 0.00045 | 0.00033 | 0.00032 | 0.00026 | 0.00018 | 0.00014 | 0.00011 |
| Pistachios   | 0.116   |   | 0.00004           | L/C     | 0.00004 | L/C     | 0.00003 | L/C     | L/C     | 0.00001 | L/C     | L/C     |
| Apples       | 0.03    |   | 0.00008           | 0.00025 | 0.00045 | 0.00028 | 0.00023 | 0.00012 | 0.00011 | 0.00010 | 0.00007 | 0.00003 |
| Pears        | 0.03    |   | 0.00004           | 0.00008 | 0.00020 | 0.00011 | 0.00007 | 0.00006 | 0.00004 | 0.00006 | 0.00007 | 0.00004 |
| Apricots     | 0.038   |   | 0.00001           | 0.00005 | 0.00004 | 0.00002 | 0.00002 | 0.00001 | 0.00001 | 0.00003 | 0.00002 | 0.00001 |
| Peaches      | 0.038   |   | 0.00005           | 0.00005 | 0.00012 | 0.00006 | 0.00004 | 0.00003 | 0.00002 | 0.00004 | 0.00004 | 0.00002 |
| Plums        | 0.038   |   | 0.00003           | 0.00002 | 0.00008 | 0.00005 | 0.00003 | 0.00001 | 0.00001 | 0.00003 | 0.00002 | 0.00001 |
| Cherries     | 0.038   |   | 0.00002           | 0.00005 | 0.00004 | 0.00006 | 0.00002 | 0.00003 | 0.00002 | 0.00002 | 0.00001 | 0.00000 |
| Table grapes | 0.04    |   | 0.00005           | 0.00007 | 0.00019 | 0.00009 | 0.00010 | 0.00004 | 0.00003 | 0.00008 | 0.00005 | 0.00002 |
| Wine grapes  | 0.04    |   | 0.00039           | 0.00005 | 0.00004 | 0.00004 | 0.00001 | 0.00004 | 0.00014 | 0.00039 | 0.00027 | 0.00006 |
| Strawberries | 0.04    |   | 0.00002           | 0.00008 | 0.00008 | 0.00005 | 0.00004 | 0.00003 | 0.00002 | 0.00004 | 0.00004 | 0.00002 |
| Blackberries | 0.04    |   | 0.00000           | L/C     | 0.00008 | 0.00000 | 0.00001 | 0.00001 | 0.00000 | 0.00001 | 0.00001 | 0.00000 |
| Loganberries | 0.04    |   | 0.00000           | 0.00002 | 0.00005 | 0.00001 | 0.00002 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00000 |

The evaluation of new MRLs for mefentrifluconazole in or on various commodities

|                      |       |  |         |         |         |         |         |         |         |         |         |         |
|----------------------|-------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Raspberries          | 0.04  |  | 0.00002 | L/C     | 0.00010 | 0.00003 | 0.00004 | 0.00001 | 0.00000 | 0.00002 | 0.00003 | 0.00002 |
| Gooseberries         | 0.04  |  | 0.00001 | 0.00002 | 0.00003 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00003 | 0.00003 | 0.00001 |
| Blackcurrants        | 0.04  |  | 0.00002 | 0.00005 | 0.00007 | 0.00007 | 0.00006 | 0.00004 | 0.00004 | 0.00001 | 0.00002 | 0.00001 |
| Red currants         | 0.04  |  | 0.00000 | L/C     | 0.00003 | L/C     | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00001 | L/C     |
| White currants       | 0.04  |  | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     |
| Avocados             | 0.028 |  | 0.00002 | L/C     | 0.00004 | L/C     | L/C     | L/C     | 0.00001 | 0.00002 | 0.00001 | L/C     |
| Bananas              | 0.01  |  | 0.00002 | 0.00007 | 0.00007 | 0.00004 | 0.00003 | 0.00002 | 0.00001 | 0.00002 | 0.00002 | 0.00002 |
| Beetroot             | 0.021 |  | 0.00001 | L/C     | 0.00003 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00000 |
| Carrots              | 0.021 |  | 0.00001 | 0.00007 | 0.00005 | 0.00004 | 0.00003 | 0.00002 | 0.00002 | 0.00002 | 0.00002 | 0.00002 |
| Celeriac             | 0.021 |  | 0.00001 | L/C     | L/C     | 0.00000 | 0.00000 | L/C     | L/C     | L/C     | L/C     | L/C     |
| Horseradish          | 0.021 |  | 0.00000 | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | 0.00000 | L/C     |
| Jerusalem artichokes | 0.021 |  | 0.00000 | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     |
| Parsnips             | 0.021 |  | 0.00001 | 0.00002 | 0.00002 | 0.00002 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 |
| Radishes             | 0.021 |  | 0.00001 | L/C     | 0.00002 | L/C     | 0.00000 | 0.00000 | 0.00000 | 0.00001 | 0.00001 | 0.00000 |
| Salsify              | 0.021 |  | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     |
| Swedes               | 0.021 |  | 0.00001 | 0.00006 | 0.00004 | 0.00001 | 0.00002 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 |
| Turnips              | 0.021 |  | 0.00001 | L/C     | 0.00002 | 0.00002 | 0.00001 | 0.00001 | 0.00001 | 0.00000 | 0.00001 | 0.00001 |
| Yam                  | 0.021 |  | 0.00006 | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     |
| Garlic               | 0.01  |  | 0.00000 | L/C     | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | L/C     |
| Onions               | 0.01  |  | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00000 |
| Spring onions        | 0.01  |  | 0.00000 | L/C     | 0.00000 | 0.00001 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Tomatoes             | 0.03  |  | 0.00004 | 0.00005 | 0.00008 | 0.00006 | 0.00006 | 0.00003 | 0.00004 | 0.00005 | 0.00004 | 0.00004 |
| Peppers              | 0.03  |  | 0.00001 | L/C     | 0.00002 | 0.00001 | 0.00002 | 0.00001 | 0.00001 | 0.00002 | 0.00002 | 0.00001 |
| Aubergines           | 0.03  |  | 0.00001 | L/C     | 0.00005 | 0.00002 | 0.00001 | 0.00002 | 0.00001 | 0.00002 | 0.00001 | L/C     |
| Marrows              | 0.03  |  | 0.00002 | L/C     | 0.00005 | 0.00001 | 0.00002 | 0.00002 | 0.00001 | 0.00002 | 0.00004 | 0.00002 |
| Cucumbers            | 0.03  |  | 0.00001 | 0.00001 | 0.00007 | 0.00005 | 0.00003 | 0.00002 | 0.00001 | 0.00002 | 0.00001 | 0.00001 |
| Gourd                | 0.03  |  | 0.00002 | L/C     | L/C     | L/C     | L/C     | 0.00001 | L/C     | 0.00001 | L/C     | L/C     |
| Courgettes           | 0.03  |  | 0.00001 | 0.00004 | 0.00007 | 0.00004 | 0.00002 | 0.00001 | 0.00001 | 0.00002 | 0.00002 | 0.00001 |
| Melons               | 0.03  |  | 0.00007 | 0.00009 | 0.00016 | 0.00011 | 0.00009 | 0.00006 | 0.00008 | 0.00008 | 0.00009 | 0.00003 |

The evaluation of new MRLs for mefentrifluconazole in or on various commodities

|                    |       |  |         |         |         |         |         |         |         |         |         |         |
|--------------------|-------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Sweet corn         | 0.03  |  | 0.00002 | 0.00003 | 0.00007 | 0.00003 | 0.00004 | 0.00001 | 0.00002 | 0.00002 | 0.00003 | 0.00001 |
| Broccoli           | 0.01  |  | 0.00001 | 0.00001 | 0.00002 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00000 |
| Cauliflower        | 0.01  |  | 0.00001 | 0.00003 | 0.00002 | 0.00002 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 |
| Brussels sprouts   | 0.01  |  | 0.00001 | 0.00002 | 0.00002 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00000 |
| Head cabbage       | 0.01  |  | 0.00001 | 0.00002 | 0.00002 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 |
| Chinese cabbage    | 0.01  |  | 0.00000 | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | 0.00001 | 0.00000 | L/C     |
| Kohl Rabi          | 0.01  |  | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     |
| Cress              | 0.08  |  | 0.00000 | L/C     | 0.00000 | 0.00001 | 0.00000 | 0.00000 | 0.00000 | 0.00001 | 0.00001 | 0.00000 |
| Lettuce            | 0.08  |  | 0.00005 | 0.00003 | 0.00007 | 0.00006 | 0.00006 | 0.00003 | 0.00004 | 0.00006 | 0.00004 | 0.00002 |
| Spinach            | 0.08  |  | 0.00004 | 0.00008 | 0.00013 | 0.00007 | 0.00007 | 0.00005 | 0.00003 | 0.00005 | 0.00004 | 0.00003 |
| Watercress         | 0.08  |  | 0.00001 | L/C     | L/C     | 0.00001 | 0.00001 | 0.00001 | L/C     | 0.00002 | 0.00002 | L/C     |
| Chicory            | 0.08  |  | 0.00001 | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | 0.00001 | L/C     | L/C     |
| Parsley            | 0.08  |  | 0.00001 | L/C     | 0.00001 | L/C     | 0.00001 | 0.00000 | 0.00000 | 0.00001 | 0.00001 | 0.00003 |
| Beans with pods    | 0.15  |  | 0.00008 | 0.00018 | 0.00029 | 0.00020 | 0.00010 | 0.00005 | 0.00011 | 0.00006 | 0.00011 | 0.00005 |
| Runner Beans       | 0.01  |  | 0.00001 | L/C     | 0.00001 | 0.00000 | 0.00001 | 0.00001 | 0.00000 | 0.00002 | 0.00001 | 0.00001 |
| Beans without pods | 0.26  |  | 0.00011 | 0.00015 | 0.00062 | 0.00010 | 0.00027 | 0.00010 | 0.00011 | 0.00016 | 0.00021 | 0.00014 |
| Peas with pods     | 0.15  |  | 0.00004 | L/C     | 0.00007 | 0.00019 | 0.00003 | 0.00004 | 0.00002 | 0.00004 | 0.00008 | L/C     |
| Peas without pods  | 0.26  |  | 0.00020 | 0.00062 | 0.00053 | 0.00036 | 0.00027 | 0.00019 | 0.00024 | 0.00023 | 0.00026 | 0.00019 |
| Beansprouts        | 0.01  |  | 0.00000 | L/C     | 0.00001 | 0.00001 | 0.00001 | 0.00000 | 0.00000 | 0.00000 | 0.00001 | 0.00000 |
| Asparagus          | 0.01  |  | 0.00000 | L/C     | L/C     | L/C     | L/C     | L/C     | 0.00000 | 0.00001 | 0.00000 | L/C     |
| Bamboo shoots      | 0.01  |  | 0.00000 | L/C     | 0.00000 | L/C     | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | L/C     |
| Celery             | 0.01  |  | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Fennel             | 0.01  |  | 0.00000 | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     |
| Globe artichokes   | 0.01  |  | 0.00000 | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | 0.00000 | L/C     | L/C     |
| Leeks              | 0.01  |  | 0.00000 | L/C     | 0.00001 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00001 | 0.00000 |
| Rhubarb            | 0.01  |  | 0.00000 | 0.00001 | 0.00001 | 0.00000 | 0.00001 | 0.00000 | 0.00000 | 0.00000 | 0.00001 | 0.00000 |
| Beans              | 0.235 |  | 0.00037 | 0.00139 | 0.00111 | 0.00079 | 0.00067 | 0.00049 | 0.00050 | 0.00041 | 0.00033 | 0.00023 |
| Lentils            | 0.235 |  | 0.00017 | 0.00034 | 0.00043 | 0.00046 | 0.00015 | 0.00029 | 0.00012 | 0.00016 | 0.00012 | 0.00006 |
| dried Peas         | 0.235 |  | 0.00016 | L/C     | 0.00041 | 0.00011 | 0.00017 | 0.00028 | 0.00015 | 0.00013 | 0.00025 | 0.00017 |

The evaluation of new MRLs for mefentrifluconazole in or on various commodities

|                            |       |  |         |         |         |         |         |         |         |         |         |         |
|----------------------------|-------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Oilseeds                   | 0.065 |  | 0.00021 | 0.00041 | 0.00047 | 0.00046 | 0.00036 | 0.00026 | 0.00023 | 0.00030 | 0.00021 | 0.00025 |
| Potatoes                   | 0.021 |  | 0.00007 | 0.00023 | 0.00019 | 0.00017 | 0.00015 | 0.00011 | 0.00010 | 0.00007 | 0.00007 | 0.00007 |
| Hops (dried 0.25% of beer) | 0.2   |  | 0.00001 | L/C     | L/C     | L/C     | L/C     | 0.00000 | 0.00001 | 0.00001 | 0.00001 | 0.00001 |
| Oats                       | 0.022 |  | 0.00001 | 0.00005 | 0.00003 | 0.00002 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 |
| Barley                     | 0.022 |  | 0.00001 | L/C     | 0.00001 | 0.00001 | 0.00002 | 0.00000 | 0.00001 | 0.00001 | 0.00001 | 0.00000 |
| Millet                     | 0.022 |  | L/C     | L/C     | 0.00001 | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     |
| Buckwheat                  | 0.022 |  | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     | L/C     |
| Maize                      | 0.022 |  | 0.00000 | 0.00010 | 0.00002 | 0.00001 | 0.00000 | 0.00000 | 0.00000 | 0.00001 | 0.00000 | 0.00000 |
| Wheat                      | 0.022 |  | 0.00008 | 0.00006 | 0.00019 | 0.00020 | 0.00015 | 0.00011 | 0.00009 | 0.00009 | 0.00007 | 0.00008 |
| Rice                       | 0.022 |  | 0.00005 | 0.00006 | 0.00010 | 0.00008 | 0.00011 | 0.00009 | 0.00006 | 0.00004 | 0.00003 | 0.00001 |
| Rye                        | 0.022 |  | 0.00001 | 0.00003 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00000 | 0.00001 | 0.00001 | 0.00000 |
| Poultry                    | 0.03  |  | 0.00005 | 0.00005 | 0.00009 | 0.00008 | 0.00005 | 0.00005 | 0.00005 | 0.00005 | 0.00005 | 0.00002 |
| Meat fat                   | 0.04  |  | 0.00001 | 0.00002 | 0.00003 | 0.00002 | 0.00001 | 0.00001 | 0.00001 | 0.00000 | 0.00001 | 0.00001 |
| Meat excl. poultry & offal | 0.04  |  | 0.00008 | 0.00016 | 0.00017 | 0.00014 | 0.00012 | 0.00008 | 0.00008 | 0.00002 | 0.00007 | 0.00007 |
| All types of kidney        | 0.03  |  | 0.00001 | 0.00001 | 0.00004 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | L/C     | 0.00001 | 0.00001 |
| All types of Liver         | 0.03  |  | 0.00001 | 0.00007 | 0.00007 | 0.00001 | 0.00001 | 0.00002 | 0.00001 | L/C     | 0.00002 | 0.00001 |
| Other types of offal       | 0.04  |  | 0.00003 | 0.00006 | 0.00009 | 0.00004 | 0.00004 | 0.00004 | 0.00002 | 0.00001 | 0.00003 | 0.00003 |
| Eggs                       | 0.03  |  | 0.00003 | 0.00014 | 0.00010 | 0.00007 | 0.00005 | 0.00004 | 0.00003 | 0.00003 | 0.00003 | 0.00004 |
| Milk                       | 0.03  |  | 0.00025 | 0.00293 | 0.00167 | 0.00088 | 0.00055 | 0.00035 | 0.00028 | 0.00029 | 0.00026 | 0.00035 |
| Sugar beet                 | 0.021 |  | 0.00029 | 0.00070 | 0.00117 | 0.00071 | 0.00066 | 0.00042 | 0.00040 | 0.00025 | 0.00022 | 0.00032 |

\* 0.00000 corresponds to <0.000005 mg/kg bw/day (any value  $\geq$ 0.000005 is rounded to 0.00001)

L/C Low consumption (<0.1 g/day) or low number of consumers (<4)

**Table B.2 Chronic risk assessment undertaken using PRIMo revision 3.1****Mefentrifluconazole**

| Chronic risk assessment: JMPR methodology (IEDI/TMDI)          |                                |                   |                                            |                                              |                                  |                                          |                                  |                                          |                                  |                                   |                                                |
|----------------------------------------------------------------|--------------------------------|-------------------|--------------------------------------------|----------------------------------------------|----------------------------------|------------------------------------------|----------------------------------|------------------------------------------|----------------------------------|-----------------------------------|------------------------------------------------|
|                                                                |                                |                   | No of diets exceeding the ADI :<br>--<br>- |                                              |                                  |                                          |                                  |                                          |                                  | Exposure resulting from           |                                                |
|                                                                | Calculated exposure (% of ADI) | MS Diet           | Exposure (µg/kg bw per day)                | Highest contributor to MS diet (in % of ADI) | Commodity / group of commodities | 2nd contributor to MS diet (in % of ADI) | Commodity / group of commodities | 3rd contributor to MS diet (in % of ADI) | Commodity / group of commodities | MRLs set at the LOQ (in % of ADI) | commodities not under assessment (in % of ADI) |
| TMDI/NEDI/IEDI calculation (based on average food consumption) | 37.7%                          | NL toddler        | 13.20                                      | 12.3%                                        | Apples                           | 5.0%                                     | Spinaches                        | 5.0%                                     | Pears                            |                                   |                                                |
|                                                                | 30.2%                          | DE child          | 10.56                                      | 14.3%                                        | Apples                           | 2.5%                                     | Oranges                          | 2.2%                                     | Cherries (sweet)                 |                                   |                                                |
|                                                                | 20.7%                          | NL child          | 7.25                                       | 6.6%                                         | Apples                           | 1.8%                                     | Spinaches                        | 1.4%                                     | Sugar beet roots                 |                                   |                                                |
|                                                                | 11.7%                          | GEMS/Food G08     | 4.08                                       | 1.5%                                         | Barley                           | 1.4%                                     | Apples                           | 1.1%                                     | Wine grapes                      |                                   |                                                |
|                                                                | 11.6%                          | DE women 14-50 yr | 4.04                                       | 2.9%                                         | Apples                           | 1.2%                                     | Oranges                          | 0.9%                                     | Wine grapes                      |                                   |                                                |
|                                                                | 11.4%                          | FR child 3 15 yr  | 3.99                                       | 2.1%                                         | Oranges                          | 1.9%                                     | Apples                           | 1.3%                                     | Milk: Cattle                     |                                   |                                                |
|                                                                | 11.3%                          | FR toddler 2 3 yr | 3.95                                       | 3.6%                                         | Apples                           | 1.7%                                     | Milk: Cattle                     | 1.1%                                     | Spinaches                        |                                   |                                                |
|                                                                | 11.2%                          | DE general        | 3.93                                       | 2.8%                                         | Apples                           | 1.0%                                     | Oranges                          | 0.9%                                     | Wine grapes                      |                                   |                                                |
|                                                                | 11.2%                          | IE adult          | 3.93                                       | 1.3%                                         | Wine grapes                      | 0.9%                                     | Spinaches                        | 0.8%                                     | Apples                           |                                   |                                                |
|                                                                | 11.1%                          | GEMS/Food G07     | 3.87                                       | 1.6%                                         | Wine grapes                      | 1.2%                                     | Apples                           | 1.0%                                     | Barley                           |                                   |                                                |
|                                                                | 10.9%                          | GEMS/Food G11     | 3.81                                       | 1.8%                                         | Apples                           | 1.3%                                     | Barley                           | 1.1%                                     | Wine grapes                      |                                   |                                                |
|                                                                | 10.5%                          | GEMS/Food G06     | 3.66                                       | 1.2%                                         | Tomatoes                         | 1.1%                                     | Table grapes                     | 1.1%                                     | Apples                           |                                   |                                                |
|                                                                | 10.0%                          | GEMS/Food G15     | 3.50                                       | 1.3%                                         | Barley                           | 1.3%                                     | Apples                           | 1.1%                                     | Wine grapes                      |                                   |                                                |
|                                                                | 9.8%                           | GEMS/Food G10     | 3.44                                       | 1.0%                                         | Barley                           | 1.0%                                     | Lettuces                         | 0.9%                                     | Apples                           |                                   |                                                |
|                                                                | 9.7%                           | ES child          | 3.39                                       | 1.3%                                         | Oranges                          | 1.3%                                     | Apples                           | 1.3%                                     | Lettuces                         |                                   |                                                |
|                                                                | 8.9%                           | UK infant         | 3.12                                       | 2.2%                                         | Milk: Cattle                     | 1.8%                                     | Apples                           | 0.8%                                     | Oranges                          |                                   |                                                |
|                                                                | 8.9%                           | UK toddler        | 3.10                                       | 1.9%                                         | Apples                           | 1.2%                                     | Oranges                          | 1.2%                                     | Milk: Cattle                     |                                   |                                                |

The evaluation of new MRLs for mefentrifluconazole in or on various commodities

|                                                                                                                                                                                                             |               |      |      |              |      |                  |      |                                 |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------|------|--------------|------|------------------|------|---------------------------------|--|--|
| 8.7%                                                                                                                                                                                                        | DK child      | 3.04 | 2.7% | Apples       | 0.8% | Rye              | 0.8% | Pears                           |  |  |
| 8.6%                                                                                                                                                                                                        | ES adult      | 3.00 | 1.7% | Lettuces     | 0.9% | Apples           | 0.8% | Barley                          |  |  |
| 8.4%                                                                                                                                                                                                        | RO general    | 2.95 | 1.8% | Wine grapes  | 1.6% | Apples           | 0.8% | Cherries (sweet)                |  |  |
| 8.3%                                                                                                                                                                                                        | NL general    | 2.92 | 1.7% | Apples       | 1.1% | Spinaches        | 0.6% | Wine grapes                     |  |  |
| 8.1%                                                                                                                                                                                                        | PT general    | 2.85 | 2.7% | Wine grapes  | 1.2% | Apples           | 0.7% | Peaches                         |  |  |
| 8.1%                                                                                                                                                                                                        | SE general    | 2.84 | 1.2% | Lettuces     | 1.2% | Apples           | 0.7% | Milk: Cattle                    |  |  |
| 7.0%                                                                                                                                                                                                        | IT toddler    | 2.46 | 1.0% | Apples       | 0.9% | Wheat            | 0.9% | Lettuces                        |  |  |
| 6.8%                                                                                                                                                                                                        | FR adult      | 2.37 | 2.5% | Wine grapes  | 0.9% | Apples           | 0.4% | Spinaches                       |  |  |
| 6.7%                                                                                                                                                                                                        | IT adult      | 2.33 | 1.2% | Lettuces     | 0.9% | Apples           | 0.8% | Peaches                         |  |  |
| 6.5%                                                                                                                                                                                                        | FR infant     | 2.29 | 1.9% | Apples       | 1.9% | Spinaches        | 1.0% | Milk: Cattle                    |  |  |
| 5.8%                                                                                                                                                                                                        | FI 3 yr       | 2.04 | 1.1% | Apples       | 1.0% | Oat              | 0.5% | Spinaches                       |  |  |
| 4.7%                                                                                                                                                                                                        | UK vegetarian | 1.64 | 0.9% | Wine grapes  | 0.7% | Apples           | 0.5% | Oranges                         |  |  |
| 4.7%                                                                                                                                                                                                        | DK adult      | 1.63 | 1.1% | Apples       | 1.0% | Wine grapes      | 0.4% | Pears                           |  |  |
| 4.7%                                                                                                                                                                                                        | PL general    | 1.63 | 2.3% | Apples       | 0.5% | Cherries (sweet) | 0.3% | Table grapes                    |  |  |
| 4.4%                                                                                                                                                                                                        | FI 6 yr       | 1.53 | 0.7% | Apples       | 0.5% | Oat              | 0.4% | Spinaches                       |  |  |
| 4.2%                                                                                                                                                                                                        | LT adult      | 1.48 | 2.1% | Apples       | 0.2% | Milk: Cattle     | 0.2% | Tomatoes                        |  |  |
| 4.2%                                                                                                                                                                                                        | UK adult      | 1.46 | 1.2% | Wine grapes  | 0.5% | Apples           | 0.4% | Lettuces                        |  |  |
| 4.0%                                                                                                                                                                                                        | FI adult      | 1.42 | 0.8% | Coffee beans | 0.7% | Apples           | 0.4% | Lettuces                        |  |  |
| 1.5%                                                                                                                                                                                                        | IE child      | 0.51 | 0.4% | Apples       | 0.2% | Milk: Cattle     | 0.2% | Currants (red, black and white) |  |  |
| <b>Conclusion:</b><br>The estimated long-term dietary intake (TMDI/NEDI/IEDI) was below the ADI.<br>The long-term intake of residues of Mefentrifluconazole is unlikely to present a public health concern. |               |      |      |              |      |                  |      |                                 |  |  |

**1.2.4-T**

| Chronic risk assessment: JMPR methodology (IEDI/TMDI)          |                                |                   |                                            |                                              |                                  |                                          |                                  |                                          |                                  |                                   |                                                |
|----------------------------------------------------------------|--------------------------------|-------------------|--------------------------------------------|----------------------------------------------|----------------------------------|------------------------------------------|----------------------------------|------------------------------------------|----------------------------------|-----------------------------------|------------------------------------------------|
|                                                                |                                |                   | No of diets exceeding the ADI :<br>--<br>- |                                              |                                  |                                          |                                  |                                          |                                  | Exposure resulting from           |                                                |
|                                                                | Calculated exposure (% of ADI) | MS Diet           | Exposure (µg/kg bw per day)                | Highest contributor to MS diet (in % of ADI) | Commodity / group of commodities | 2nd contributor to MS diet (in % of ADI) | Commodity / group of commodities | 3rd contributor to MS diet (in % of ADI) | Commodity / group of commodities | MRLs set at the LOQ (in % of ADI) | commodities not under assessment (in % of ADI) |
| TMDI/NEDI/IEDI calculation (based on average food consumption) | 50.9%                          | NL toddler        | 11.71                                      | 41.6%                                        | Milk: Cattle                     | 1.5%                                     | Maize/corn                       | 1.2%                                     | Bananas                          |                                   | 0.0%                                           |
|                                                                | 30.8%                          | UK infant         | 7.09                                       | 26.9%                                        | Milk: Cattle                     | 0.9%                                     | Bovine: Muscle/meat              | 0.6%                                     | Wheat                            |                                   |                                                |
|                                                                | 25.1%                          | FR toddler 2 3 yr | 5.78                                       | 20.4%                                        | Milk: Cattle                     | 0.8%                                     | Bovine: Muscle/meat              | 0.7%                                     | Wheat                            |                                   | 0.0%                                           |
|                                                                | 23.7%                          | NL child          | 5.46                                       | 17.0%                                        | Milk: Cattle                     | 1.8%                                     | Sugar beet roots                 | 0.9%                                     | Wheat                            |                                   | 0.0%                                           |
|                                                                | 22.1%                          | FR child 3 15 yr  | 5.08                                       | 15.9%                                        | Milk: Cattle                     | 1.0%                                     | Bovine: Muscle/meat              | 1.0%                                     | Wheat                            |                                   | 0.0%                                           |
|                                                                | 18.6%                          | UK toddler        | 4.29                                       | 14.4%                                        | Milk: Cattle                     | 0.9%                                     | Bovine: Muscle/meat              | 0.9%                                     | Wheat                            |                                   |                                                |
|                                                                | 18.4%                          | DE child          | 4.24                                       | 13.7%                                        | Milk: Cattle                     | 0.9%                                     | Wheat                            | 0.9%                                     | Oranges                          |                                   | 0.0%                                           |
|                                                                | 14.4%                          | DK child          | 3.30                                       | 8.8%                                         | Milk: Cattle                     | 1.2%                                     | Rye                              | 1.2%                                     | Swine: Muscle/meat               |                                   | 0.0%                                           |
|                                                                | 14.0%                          | SE general        | 3.23                                       | 8.6%                                         | Milk: Cattle                     | 3.1%                                     | Bovine: Muscle/meat              | 0.7%                                     | Wheat                            |                                   | 0.0%                                           |
|                                                                | 13.5%                          | ES child          | 3.10                                       | 8.7%                                         | Milk: Cattle                     | 1.0%                                     | Bovine: Muscle/meat              | 1.0%                                     | Wheat                            |                                   | 0.0%                                           |
|                                                                | 13.3%                          | FR infant         | 3.06                                       | 11.7%                                        | Milk: Cattle                     | 0.3%                                     | Sugar beet roots                 | 0.2%                                     | Bovine: Muscle/meat              |                                   | 0.0%                                           |
|                                                                | 12.3%                          | DE women 14-50 yr | 2.84                                       | 8.6%                                         | Milk: Cattle                     | 1.0%                                     | Sugar beet roots                 | 0.5%                                     | Wheat                            |                                   | 0.0%                                           |
|                                                                | 12.3%                          | DE general        | 2.83                                       | 8.6%                                         | Milk: Cattle                     | 0.9%                                     | Sugar beet roots                 | 0.6%                                     | Swine: Muscle/meat               |                                   | 0.0%                                           |
|                                                                | 12.0%                          | RO general        | 2.75                                       | 8.1%                                         | Milk: Cattle                     | 1.1%                                     | Wheat                            | 0.6%                                     | Swine: Muscle/meat               |                                   | 0.0%                                           |
|                                                                | 10.6%                          | GEMS/Food G11     | 2.43                                       | 5.4%                                         | Milk: Cattle                     | 0.8%                                     | Soyabeans                        | 0.8%                                     | Wheat                            |                                   | 0.0%                                           |

The evaluation of new MRLs for mefentrifluconazole in or on various commodities

|                                                                                                                                                                                              |               |      |      |              |      |                  |      |               |      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------|------|--------------|------|------------------|------|---------------|------|
| 10.0%                                                                                                                                                                                        | GEMS/Food G15 | 2.29 | 4.9% | Milk:        | 1.0% | Wheat            | 0.7% | Swine:        | 0.0% |
| 9.8%                                                                                                                                                                                         | GEMS/Food G07 | 2.26 | 4.5% | Cattle       | 0.9% | Wheat            | 0.6% | Muscle/meat   | 0.0% |
| 9.4%                                                                                                                                                                                         | NL general    | 2.15 | 5.9% | Milk:        | 0.6% | Sugar beet roots | 0.5% | Bovine:       | 0.0% |
| 9.1%                                                                                                                                                                                         | GEMS/Food G08 | 2.10 | 3.9% | Cattle       | 1.0% | Swine:           | 0.9% | Muscle/meat   | 0.0% |
| 9.1%                                                                                                                                                                                         | GEMS/Food G10 | 2.10 | 3.8% | Milk:        | 0.9% | Wheat            | 0.7% | Wheat         | 0.0% |
| 7.1%                                                                                                                                                                                         | GEMS/Food G06 | 1.64 | 1.7% | Cattle       | 1.6% | Wheat            | 0.4% | Soyabeans     | 0.0% |
| 6.7%                                                                                                                                                                                         | IE adult      | 1.55 | 3.0% | Milk:        | 0.5% | Wheat            | 0.3% | Sugar canes   | 0.0% |
| 6.3%                                                                                                                                                                                         | ES adult      | 1.45 | 3.4% | Cattle       | 0.5% | Bovine:          | 0.5% | Bovine:       | 0.0% |
| 5.7%                                                                                                                                                                                         | FR adult      | 1.30 | 3.1% | Milk:        | 0.5% | Muscle/meat      | 0.4% | Muscle/meat   | 0.0% |
| 5.6%                                                                                                                                                                                         | DK adult      | 1.30 | 3.7% | Cattle       | 0.5% | Wheat            | 0.4% | Bovine:       | 0.0% |
| 4.6%                                                                                                                                                                                         | LT adult      | 1.06 | 2.8% | Milk:        | 0.5% | Swine:           | 0.4% | Bovine:       | 0.0% |
| 3.8%                                                                                                                                                                                         | UK adult      | 0.88 | 2.1% | Cattle       | 0.5% | Muscle/meat      | 0.2% | Muscle/meat   | 0.0% |
| 3.7%                                                                                                                                                                                         | UK vegetarian | 0.85 | 2.3% | Milk:        | 0.5% | Swine:           | 0.4% | Rye           | 0.0% |
| 3.2%                                                                                                                                                                                         | IE child      | 0.74 | 2.5% | Cattle       | 0.5% | Bovine:          | 0.4% | Wheat         | 0.0% |
| 2.4%                                                                                                                                                                                         | IT toddler    | 0.56 | 1.4% | Milk:        | 0.4% | Muscle/meat      | 0.2% | Oranges       | 0.0% |
| 2.2%                                                                                                                                                                                         | PT general    | 0.52 | 0.9% | Cattle       | 0.3% | Wheat            | 0.1% | Swine:        | 0.0% |
| 1.7%                                                                                                                                                                                         | FI 3 yr       | 0.38 | 0.3% | Wheat        | 0.3% | Other cereals    | 0.1% | Muscle/meat   | 0.0% |
| 1.6%                                                                                                                                                                                         | IT adult      | 0.37 | 0.9% | Bananas      | 0.2% | Potatoes         | 0.2% | Bananas       | 0.0% |
| 1.3%                                                                                                                                                                                         | FI 6 yr       | 0.29 | 0.2% | Wheat        | 0.3% | Wheat            | 0.2% | Rice          | 0.0% |
| 1.0%                                                                                                                                                                                         | FI adult      | 0.22 | 0.2% | Wheat        | 0.2% | Other cereals    | 0.1% | Potatoes      | 0.0% |
| 0.5%                                                                                                                                                                                         | PL general    | 0.13 | 0.1% | Coffee beans | 0.2% | Potatoes         | 0.2% | Oranges       | 0.0% |
|                                                                                                                                                                                              |               |      |      | Potatoes     | 0.2% | Rye              | 0.1% | Oranges       | 0.0% |
|                                                                                                                                                                                              |               |      |      |              | 0.1% | Apples           | 0.1% | Head cabbages | 0.0% |
| <b>Conclusion:</b><br>The estimated long-term dietary intake (TMDI/NEDI/IEDI) was below the ADI.<br>The long-term intake of residues of 124T is unlikely to present a public health concern. |               |      |      |              |      |                  |      |               |      |

**TA**

| Chronic risk assessment: JMPR methodology (IEDI/TMDI)          |                                |                   |                                            |                                              |                                  |                                          |                                  |                                          |                                  |                                   |                                                |
|----------------------------------------------------------------|--------------------------------|-------------------|--------------------------------------------|----------------------------------------------|----------------------------------|------------------------------------------|----------------------------------|------------------------------------------|----------------------------------|-----------------------------------|------------------------------------------------|
|                                                                |                                |                   | No of diets exceeding the ADI :<br>--<br>- |                                              |                                  |                                          |                                  |                                          |                                  | Exposure resulting from           |                                                |
|                                                                | Calculated exposure (% of ADI) | MS Diet           | Exposure (µg/kg bw per day)                | Highest contributor to MS diet (in % of ADI) | Commodity / group of commodities | 2nd contributor to MS diet (in % of ADI) | Commodity / group of commodities | 3rd contributor to MS diet (in % of ADI) | Commodity / group of commodities | MRLs set at the LOQ (in % of ADI) | commodities not under assessment (in % of ADI) |
| TMDI/NEDI/IEDI calculation (based on average food consumption) | 5.4%                           | NL toddler        | 16.18                                      | 1.5%                                         | Maize/corn                       | 0.8%                                     | Wheat                            | 0.4%                                     | Milk: Cattle                     |                                   |                                                |
|                                                                | 3.9%                           | GEMS/Food G06     | 11.72                                      | 1.5%                                         | Wheat                            | 0.4%                                     | Soyabeans                        | 0.3%                                     | Rice                             |                                   |                                                |
|                                                                | 3.8%                           | GEMS/Food G10     | 11.29                                      | 1.1%                                         | Soyabeans                        | 0.8%                                     | Wheat                            | 0.3%                                     | Rice                             |                                   |                                                |
|                                                                | 3.5%                           | GEMS/Food G11     | 10.54                                      | 1.3%                                         | Soyabeans                        | 0.7%                                     | Wheat                            | 0.2%                                     | Potatoes                         |                                   |                                                |
|                                                                | 3.5%                           | GEMS/Food G08     | 10.47                                      | 0.8%                                         | Wheat                            | 0.7%                                     | Soyabeans                        | 0.3%                                     | Olives for oil production        |                                   |                                                |
|                                                                | 3.3%                           | GEMS/Food G07     | 9.87                                       | 0.9%                                         | Wheat                            | 0.6%                                     | Soyabeans                        | 0.2%                                     | Potatoes                         |                                   |                                                |
|                                                                | 3.2%                           | GEMS/Food G15     | 9.64                                       | 0.9%                                         | Wheat                            | 0.6%                                     | Soyabeans                        | 0.2%                                     | Potatoes                         |                                   |                                                |
|                                                                | 2.9%                           | NL child          | 8.85                                       | 0.9%                                         | Wheat                            | 0.3%                                     | Oil palm fruits                  | 0.2%                                     | Potatoes                         |                                   |                                                |
|                                                                | 2.9%                           | DK child          | 8.57                                       | 1.1%                                         | Rye                              | 0.9%                                     | Wheat                            | 0.1%                                     | Potatoes                         |                                   |                                                |
|                                                                | 2.7%                           | DE child          | 8.11                                       | 0.9%                                         | Wheat                            | 0.4%                                     | Oranges                          | 0.2%                                     | Rye                              |                                   |                                                |
|                                                                | 2.5%                           | FR child 3 15 yr  | 7.53                                       | 1.0%                                         | Wheat                            | 0.4%                                     | Oranges                          | 0.2%                                     | Milk: Cattle                     |                                   |                                                |
|                                                                | 2.4%                           | RO general        | 7.11                                       | 1.0%                                         | Wheat                            | 0.2%                                     | Sunflower seeds                  | 0.2%                                     | Potatoes                         |                                   |                                                |
|                                                                | 2.2%                           | ES child          | 6.46                                       | 0.9%                                         | Wheat                            | 0.3%                                     | Olives for oil production        | 0.2%                                     | Oranges                          |                                   |                                                |
|                                                                | 2.1%                           | IT toddler        | 6.40                                       | 1.4%                                         | Wheat                            | 0.3%                                     | Other cereals                    | 0.1%                                     | Tomatoes                         |                                   |                                                |
|                                                                | 2.1%                           | PT general        | 6.36                                       | 0.8%                                         | Wheat                            | 0.3%                                     | Potatoes                         | 0.2%                                     | Rice                             |                                   |                                                |
|                                                                | 2.0%                           | IE adult          | 6.12                                       | 0.5%                                         | Wheat                            | 0.2%                                     | Sweet potatoes                   | 0.1%                                     | Potatoes                         |                                   |                                                |
|                                                                | 2.0%                           | UK infant         | 5.86                                       | 0.5%                                         | Wheat                            | 0.3%                                     | Milk: Cattle                     | 0.2%                                     | Maize/corn                       |                                   |                                                |
|                                                                | 1.9%                           | UK toddler        | 5.81                                       | 0.8%                                         | Wheat                            | 0.2%                                     | Potatoes                         | 0.2%                                     | Oranges                          |                                   |                                                |
|                                                                | 1.9%                           | FR toddler 2 3 yr | 5.68                                       | 0.6%                                         | Wheat                            | 0.2%                                     | Milk: Cattle                     | 0.2%                                     | Oranges                          |                                   |                                                |

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|                                                                                                                                                                                            |                   |      |      |              |      |                           |      |                     |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------|------|--------------|------|---------------------------|------|---------------------|--|--|
| 1.7%                                                                                                                                                                                       | SE general        | 5.21 | 0.7% | Wheat        | 0.3% | Potatoes                  | 0.1% | Bovine: Muscle/meat |  |  |
| 1.6%                                                                                                                                                                                       | NL general        | 4.85 | 0.4% | Wheat        | 0.2% | Oil palm fruits           | 0.1% | Potatoes            |  |  |
| 1.5%                                                                                                                                                                                       | DE women 14-50 yr | 4.49 | 0.4% | Wheat        | 0.2% | Oranges                   | 0.1% | Rye                 |  |  |
| 1.5%                                                                                                                                                                                       | DE general        | 4.43 | 0.4% | Wheat        | 0.2% | Oranges                   | 0.1% | Rye                 |  |  |
| 1.4%                                                                                                                                                                                       | IT adult          | 4.18 | 0.9% | Wheat        | 0.1% | Other cereals             | 0.0% | Tomatoes            |  |  |
| 1.3%                                                                                                                                                                                       | ES adult          | 4.00 | 0.5% | Wheat        | 0.1% | Olives for oil production | 0.1% | Oranges             |  |  |
| 1.3%                                                                                                                                                                                       | FI 3 yr           | 3.99 | 0.3% | Potatoes     | 0.2% | Wheat                     | 0.1% | Rye                 |  |  |
| 1.1%                                                                                                                                                                                       | FI adult          | 3.40 | 0.6% | Coffee beans | 0.1% | Rye                       | 0.1% | Potatoes            |  |  |
| 1.1%                                                                                                                                                                                       | FR adult          | 3.24 | 0.5% | Wheat        | 0.1% | Oranges                   | 0.0% | Wine grapes         |  |  |
| 1.1%                                                                                                                                                                                       | FI 6 yr           | 3.18 | 0.2% | Potatoes     | 0.2% | Wheat                     | 0.1% | Rye                 |  |  |
| 1.0%                                                                                                                                                                                       | LT adult          | 2.90 | 0.2% | Rye          | 0.2% | Wheat                     | 0.2% | Potatoes            |  |  |
| 1.0%                                                                                                                                                                                       | UK vegetarian     | 2.88 | 0.4% | Wheat        | 0.1% | Oranges                   | 0.1% | Potatoes            |  |  |
| 0.8%                                                                                                                                                                                       | UK adult          | 2.39 | 0.3% | Wheat        | 0.1% | Potatoes                  | 0.1% | Rice                |  |  |
| 0.7%                                                                                                                                                                                       | FR infant         | 2.25 | 0.2% | Wheat        | 0.1% | Potatoes                  | 0.1% | Milk: Cattle        |  |  |
| 0.7%                                                                                                                                                                                       | DK adult          | 2.12 | 0.2% | Wheat        | 0.1% | Rye                       | 0.1% | Potatoes            |  |  |
| 0.4%                                                                                                                                                                                       | PL general        | 1.29 | 0.2% | Potatoes     | 0.0% | Tomatoes                  | 0.0% | Apples              |  |  |
| 0.4%                                                                                                                                                                                       | IE child          | 1.29 | 0.2% | Wheat        | 0.1% | Rice                      | 0.0% | Potatoes            |  |  |
| <b>Conclusion:</b><br>The estimated long-term dietary intake (TMDI/NEDI/IEDI) was below the ADI.<br>The long-term intake of residues of ta is unlikely to present a public health concern. |                   |      |      |              |      |                           |      |                     |  |  |

**TAA**

| Chronic risk assessment: JMPR methodology (IEDI/TMDI)          |                                |                  |                                            |                                              |                                  |                                          |                                  |                                          |                                  |                                   |                                                |
|----------------------------------------------------------------|--------------------------------|------------------|--------------------------------------------|----------------------------------------------|----------------------------------|------------------------------------------|----------------------------------|------------------------------------------|----------------------------------|-----------------------------------|------------------------------------------------|
|                                                                |                                |                  | No of diets exceeding the ADI :<br>--<br>- |                                              |                                  |                                          |                                  |                                          |                                  | Exposure resulting from           |                                                |
|                                                                | Calculated exposure (% of ADI) | MS Diet          | Exposure (µg/kg bw per day)                | Highest contributor to MS diet (in % of ADI) | Commodity / group of commodities | 2nd contributor to MS diet (in % of ADI) | Commodity / group of commodities | 3rd contributor to MS diet (in % of ADI) | Commodity / group of commodities | MRLs set at the LOQ (in % of ADI) | commodities not under assessment (in % of ADI) |
| TMDI/NEDI/IEDI calculation (based on average food consumption) | 1.4%                           | NL toddler       | 13.59                                      | 0.6%                                         | Maize/corn                       | 0.3%                                     | Wheat                            | 0.2%                                     | Milk: Cattle                     |                                   | 0.0%                                           |
|                                                                | 0.9%                           | DK child         | 9.17                                       | 0.4%                                         | Rye                              | 0.3%                                     | Wheat                            | 0.0%                                     | Milk: Cattle                     |                                   | 0.0%                                           |
|                                                                | 0.9%                           | GEMS/Food G06    | 8.99                                       | 0.6%                                         | Wheat                            | 0.1%                                     | Rice                             | 0.1%                                     | Maize/corn                       |                                   | 0.0%                                           |
|                                                                | 0.7%                           | IT toddler       | 6.81                                       | 0.5%                                         | Wheat                            | 0.1%                                     | Other cereals                    | 0.0%                                     | Rice                             |                                   | 0.0%                                           |
|                                                                | 0.6%                           | GEMS/Food G10    | 6.43                                       | 0.3%                                         | Wheat                            | 0.1%                                     | Rice                             | 0.1%                                     | Maize/corn                       |                                   | 0.0%                                           |
|                                                                | 0.6%                           | GEMS/Food G15    | 6.22                                       | 0.4%                                         | Wheat                            | 0.1%                                     | Barley                           | 0.1%                                     | Maize/corn                       |                                   | 0.0%                                           |
|                                                                | 0.6%                           | GEMS/Food G08    | 6.18                                       | 0.3%                                         | Wheat                            | 0.1%                                     | Barley                           | 0.0%                                     | Rye                              |                                   | 0.0%                                           |
|                                                                | 0.6%                           | DE child         | 6.13                                       | 0.3%                                         | Wheat                            | 0.1%                                     | Rye                              | 0.1%                                     | Milk: Cattle                     |                                   | 0.0%                                           |
|                                                                | 0.6%                           | NL child         | 5.94                                       | 0.3%                                         | Wheat                            | 0.1%                                     | Milk: Cattle                     | 0.0%                                     | Sugar beet roots                 |                                   | 0.0%                                           |
|                                                                | 0.6%                           | FR child 3 15 yr | 5.94                                       | 0.4%                                         | Wheat                            | 0.1%                                     | Milk: Cattle                     | 0.0%                                     | Rice                             |                                   | 0.0%                                           |
|                                                                | 0.6%                           | RO general       | 5.84                                       | 0.4%                                         | Wheat                            | 0.1%                                     | Maize/corn                       | 0.0%                                     | Milk: Cattle                     |                                   | 0.0%                                           |
|                                                                | 0.6%                           | GEMS/Food G07    | 5.65                                       | 0.3%                                         | Wheat                            | 0.0%                                     | Barley                           | 0.0%                                     | Rice                             |                                   | 0.0%                                           |
|                                                                | 0.5%                           | UK infant        | 5.22                                       | 0.2%                                         | Wheat                            | 0.1%                                     | Milk: Cattle                     | 0.1%                                     | Maize/corn                       |                                   |                                                |
|                                                                | 0.5%                           | GEMS/Food G11    | 5.19                                       | 0.3%                                         | Wheat                            | 0.1%                                     | Barley                           | 0.0%                                     | Soyabeans                        |                                   | 0.0%                                           |
|                                                                | 0.5%                           | ES child         | 5.07                                       | 0.4%                                         | Wheat                            | 0.0%                                     | Rice                             | 0.0%                                     | Milk: Cattle                     |                                   | 0.0%                                           |
|                                                                | 0.5%                           | UK toddler       | 4.85                                       | 0.3%                                         | Wheat                            | 0.1%                                     | Milk: Cattle                     | 0.0%                                     | Rice                             |                                   |                                                |
|                                                                | 0.5%                           | PT general       | 4.69                                       | 0.3%                                         | Wheat                            | 0.1%                                     | Rice                             | 0.0%                                     | Maize/corn                       |                                   | 0.0%                                           |

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|                                                                                                                                                                                             |                   |      |      |        |      |                                    |      |                  |      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------|------|--------|------|------------------------------------|------|------------------|------|
| 0.5%                                                                                                                                                                                        | FR toddler 2 3 yr | 4.58 | 0.2% | Wheat  | 0.1% | Milk: Cattle                       | 0.0% | Rice             | 0.0% |
| 0.4%                                                                                                                                                                                        | IT adult          | 4.15 | 0.3% | Wheat  | 0.1% | Other cereals                      | 0.0% | Rice             | 0.0% |
| 0.4%                                                                                                                                                                                        | SE general        | 3.94 | 0.3% | Wheat  | 0.0% | Milk: Cattle                       | 0.0% | Rice             | 0.0% |
| 0.3%                                                                                                                                                                                        | DE general        | 3.47 | 0.1% | Wheat  | 0.0% | Rye                                | 0.0% | Barley           | 0.0% |
| 0.3%                                                                                                                                                                                        | DE women 14-50 yr | 3.39 | 0.2% | Wheat  | 0.0% | Rye                                | 0.0% | Milk: Cattle     | 0.0% |
| 0.3%                                                                                                                                                                                        | IE adult          | 3.38 | 0.2% | Wheat  | 0.0% | Buckwheat and other pseudo-cereals | 0.0% | Rice             | 0.0% |
| 0.3%                                                                                                                                                                                        | ES adult          | 3.02 | 0.2% | Wheat  | 0.0% | Barley                             | 0.0% | Rice             | 0.0% |
| 0.3%                                                                                                                                                                                        | NL general        | 2.91 | 0.2% | Wheat  | 0.0% | Milk: Cattle                       | 0.0% | Barley           | 0.0% |
| 0.3%                                                                                                                                                                                        | FI 3 yr           | 2.73 | 0.1% | Wheat  | 0.1% | Rye                                | 0.0% | Oat              | 0.0% |
| 0.2%                                                                                                                                                                                        | FR adult          | 2.50 | 0.2% | Wheat  | 0.0% | Milk: Cattle                       | 0.0% | Rice             | 0.0% |
| 0.2%                                                                                                                                                                                        | LT adult          | 2.45 | 0.1% | Rye    | 0.1% | Wheat                              | 0.0% | Rice             | 0.0% |
| 0.2%                                                                                                                                                                                        | UK vegetarian     | 2.34 | 0.2% | Wheat  | 0.0% | Rice                               | 0.0% | Milk: Cattle     | 0.0% |
| 0.2%                                                                                                                                                                                        | FI 6 yr           | 2.13 | 0.1% | Wheat  | 0.0% | Rye                                | 0.0% | Rice             | 0.0% |
| 0.2%                                                                                                                                                                                        | UK adult          | 1.99 | 0.1% | Wheat  | 0.0% | Rice                               | 0.0% | Milk: Cattle     | 0.0% |
| 0.2%                                                                                                                                                                                        | DK adult          | 1.78 | 0.1% | Wheat  | 0.0% | Rye                                | 0.0% | Milk: Cattle     | 0.0% |
| 0.1%                                                                                                                                                                                        | FR infant         | 1.49 | 0.1% | Wheat  | 0.1% | Milk: Cattle                       | 0.0% | Sugar beet roots | 0.0% |
| 0.1%                                                                                                                                                                                        | IE child          | 1.34 | 0.1% | Wheat  | 0.0% | Rice                               | 0.0% | Milk: Cattle     | 0.0% |
| 0.1%                                                                                                                                                                                        | FI adult          | 1.24 | 0.1% | Rye    | 0.0% | Wheat                              | 0.0% | Oat              | 0.0% |
| 0.0%                                                                                                                                                                                        | PL general        | 0.18 | 0.0% | Apples | 0.0% | Potatoes                           | 0.0% | Table grapes     | 0.0% |
| <b>Conclusion:</b><br>The estimated long-term dietary intake (TMDI/NEDI/IEDI) was below the ADI.<br>The long-term intake of residues of TAA is unlikely to present a public health concern. |                   |      |      |        |      |                                    |      |                  |      |

**TLA**

| Chronic risk assessment: JMPR methodology (IEDI/TMDI)          |                                |                   |                                         |                                              |                                  |                                          |                                  |                                          |                                  |                                   |                                                |
|----------------------------------------------------------------|--------------------------------|-------------------|-----------------------------------------|----------------------------------------------|----------------------------------|------------------------------------------|----------------------------------|------------------------------------------|----------------------------------|-----------------------------------|------------------------------------------------|
|                                                                |                                |                   | No of diets exceeding the ADI : --<br>- |                                              |                                  |                                          |                                  |                                          | Exposure resulting from          |                                   |                                                |
|                                                                | Calculated exposure (% of ADI) | MS Diet           | Exposure (µg/kg bw per day)             | Highest contributor to MS diet (in % of ADI) | Commodity / group of commodities | 2nd contributor to MS diet (in % of ADI) | Commodity / group of commodities | 3rd contributor to MS diet (in % of ADI) | Commodity / group of commodities | MRLs set at the LOQ (in % of ADI) | commodities not under assessment (in % of ADI) |
| TMDI/NEDI/IEDI calculation (based on average food consumption) | 1.2%                           | NL toddler        | 3.66                                    | 0.6%                                         | Milk: Cattle                     | 0.1%                                     | Apples                           | 0.1%                                     | Maize/corn                       |                                   | 0.0%                                           |
|                                                                | 0.6%                           | UK infant         | 1.92                                    | 0.4%                                         | Milk: Cattle                     | 0.0%                                     | Peas (without pods)              | 0.0%                                     | Beans                            |                                   |                                                |
|                                                                | 0.6%                           | NL child          | 1.84                                    | 0.2%                                         | Milk: Cattle                     | 0.1%                                     | Apples                           | 0.0%                                     | Wheat                            |                                   | 0.0%                                           |
|                                                                | 0.6%                           | DE child          | 1.82                                    | 0.2%                                         | Milk: Cattle                     | 0.1%                                     | Apples                           | 0.1%                                     | Oranges                          |                                   | 0.0%                                           |
|                                                                | 0.6%                           | FR child 3 15 yr  | 1.70                                    | 0.2%                                         | Milk: Cattle                     | 0.0%                                     | Oranges                          | 0.0%                                     | Wheat                            |                                   |                                                |
|                                                                | 0.6%                           | FR toddler 2 3 yr | 1.69                                    | 0.3%                                         | Milk: Cattle                     | 0.0%                                     | Beans (with pods)                | 0.0%                                     | Apples                           |                                   | 0.0%                                           |
|                                                                | 0.5%                           | UK toddler        | 1.43                                    | 0.2%                                         | Milk: Cattle                     | 0.1%                                     | Beans                            | 0.0%                                     | Wheat                            |                                   | 0.0%                                           |
|                                                                | 0.4%                           | GEMS/Food G11     | 1.26                                    | 0.1%                                         | Soyabeans                        | 0.1%                                     | Milk: Cattle                     | 0.0%                                     | Potatoes                         |                                   | 0.0%                                           |
|                                                                | 0.4%                           | ES child          | 1.18                                    | 0.1%                                         | Milk: Cattle                     | 0.0%                                     | Wheat                            | 0.0%                                     | Oranges                          |                                   | 0.0%                                           |
|                                                                | 0.4%                           | GEMS/Food G07     | 1.17                                    | 0.1%                                         | Milk: Cattle                     | 0.0%                                     | Soyabeans                        | 0.0%                                     | Wheat                            |                                   | 0.0%                                           |
|                                                                | 0.4%                           | GEMS/Food G10     | 1.16                                    | 0.1%                                         | Soyabeans                        | 0.1%                                     | Milk: Cattle                     | 0.0%                                     | Wheat                            |                                   | 0.0%                                           |
|                                                                | 0.4%                           | GEMS/Food G06     | 1.13                                    | 0.1%                                         | Wheat                            | 0.0%                                     | Tomatoes                         | 0.0%                                     | Soyabeans                        |                                   | 0.0%                                           |
|                                                                | 0.4%                           | GEMS/Food G08     | 1.13                                    | 0.1%                                         | Milk: Cattle                     | 0.0%                                     | Soyabeans                        | 0.0%                                     | Wheat                            |                                   | 0.0%                                           |
|                                                                | 0.4%                           | GEMS/Food G15     | 1.11                                    | 0.1%                                         | Milk: Cattle                     | 0.0%                                     | Soyabeans                        | 0.0%                                     | Wheat                            |                                   | 0.0%                                           |

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|                    |                   |      |      |              |      |                   |      |                      |      |
|--------------------|-------------------|------|------|--------------|------|-------------------|------|----------------------|------|
| 0.4%               | DK child          | 1.08 | 0.1% | Milk:        | 0.0% | Rye               | 0.0% | Wheat                | 0.0% |
| 0.4%               | IE adult          | 1.08 | 0.0% | Cattle       | 0.0% | Sweet potatoes    | 0.0% | Peas                 | 0.0% |
| 0.4%               | RO general        | 1.06 | 0.1% | Milk:        | 0.0% | Wheat             | 0.0% | Potatoes             |      |
| 0.4%               | SE general        | 1.05 | 0.1% | Cattle       | 0.0% | Bovine:           | 0.0% | Potatoes             |      |
| 0.3%               | DE women 14-50 yr | 0.95 | 0.1% | Milk:        | 0.0% | Muscle/meat       | 0.0% | Oranges              | 0.0% |
| 0.3%               | DE general        | 0.93 | 0.1% | Cattle       | 0.0% | Apples            | 0.0% | Oranges              | 0.0% |
| 0.3%               | FR infant         | 0.89 | 0.2% | Milk:        | 0.0% | Beans (with pods) | 0.0% | Apples               |      |
| 0.3%               | NL general        | 0.86 | 0.1% | Cattle       | 0.0% | Potatoes          | 0.0% | Apples               | 0.0% |
| 0.2%               | PT general        | 0.73 | 0.0% | Milk:        | 0.0% | Wine grapes       | 0.0% | Wheat                | 0.0% |
| 0.2%               | ES adult          | 0.70 | 0.0% | Cattle       | 0.0% | Oranges           | 0.0% | Wheat                | 0.0% |
| 0.2%               | FR adult          | 0.67 | 0.0% | Milk:        | 0.0% | Wine grapes       | 0.0% | Wheat                | 0.0% |
| 0.2%               | UK vegetarian     | 0.51 | 0.0% | Cattle       | 0.0% | Beans             | 0.0% | Wheat                | 0.0% |
| 0.2%               | IT toddler        | 0.51 | 0.0% | Milk:        | 0.0% | Tomatoes          | 0.0% | Other cereals        | 0.0% |
| 0.2%               | DK adult          | 0.50 | 0.1% | Wheat        | 0.0% | Wine grapes       | 0.0% | Peas (without pods)  | 0.0% |
| 0.1%               | UK adult          | 0.45 | 0.0% | Cattle       | 0.0% | Beans             | 0.0% | Wine grapes          | 0.0% |
| 0.1%               | LT adult          | 0.44 | 0.0% | Milk:        | 0.0% | Potatoes          | 0.0% | Apples               |      |
| 0.1%               | FI 3 yr           | 0.43 | 0.0% | Cattle       | 0.0% | Cucumbers         | 0.0% | Apples               | 0.0% |
| 0.1%               | IT adult          | 0.41 | 0.0% | Potatoes     | 0.0% | Tomatoes          | 0.0% | Lettuces             | 0.0% |
| 0.1%               | FI 6 yr           | 0.36 | 0.0% | Wheat        | 0.0% | Wheat             | 0.0% | Cucumbers            | 0.0% |
| 0.1%               | FI adult          | 0.31 | 0.0% | Potatoes     | 0.0% | Potatoes          | 0.0% | Apples               | 0.0% |
| 0.1%               | PL general        | 0.26 | 0.0% | Coffee beans | 0.0% | Apples            | 0.0% | Tomatoes             | 0.0% |
| 0.1%               | IE child          | 0.24 | 0.0% | Potatoes     | 0.0% | Wheat             | 0.0% | Beans (without pods) | 0.0% |
|                    |                   |      |      | Milk:        | 0.0% |                   |      |                      |      |
|                    |                   |      |      | Cattle       |      |                   |      |                      |      |
| <b>Conclusion:</b> |                   |      |      |              |      |                   |      |                      |      |

The evaluation of new MRLs for mefentrifluconazole in or on various commodities

|                                                                                                                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>The estimated long-term dietary intake (TMDI/NEDI/IEDI) was below the ADI.<br/>The long-term intake of residues of tla is unlikely to present a public health concern.</p> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Table B.3 Acute risk assessment undertaken using UK model version 1.2****Mefentrifluconazole**

Acute Intakes (97.5th percentiles)

|                    |      |   | adult   |       | infant  |       | toddler |       | 4-6 year old child |       | 7-10 year old child |       |
|--------------------|------|---|---------|-------|---------|-------|---------|-------|--------------------|-------|---------------------|-------|
| commodity          | HR   | P | NESTI   | %ARfD | NESTI   | %ARfD | NESTI   | %ARfD | NESTI              | %ARfD | NESTI               | %ARfD |
| Pistachios         | 0.02 |   | 0.00006 | 0.0   | 0.00000 | 0.0   | 0.00005 | 0.0   | 0.00001            | 0.0   | 0.00004             | 0.0   |
| Apples             | 0.11 |   | 0.00164 | 1.1   | 0.01078 | 7.2   | 0.00792 | 5.3   | 0.00613            | 4.1   | 0.00452             | 3.0   |
| Pears              | 0.11 |   | 0.00194 | 1.3   | 0.00797 | 5.3   | 0.00934 | 6.2   | 0.00662            | 4.4   | 0.00440             | 2.9   |
| Wine grapes        | 0.86 |   | 0.02040 | 13.6  | 0.00668 | 4.5   | 0.00404 | 2.7   | 0.00544            | 3.6   | 0.00160             | 1.1   |
| Table grapes       | 0.86 |   | 0.01696 | 11.3  | 0.02471 | 16.5  | 0.05249 | 35.0  | 0.04336            | 28.9  | 0.03990             | 26.6  |
| Olives             | 1.40 |   | 0.00118 | 0.8   | 0.00000 | 0.0   | 0.00255 | 1.7   | 0.00468            | 3.1   | 0.00157             | 1.0   |
| Lettuce            | 2.15 |   | 0.02122 | 14.1  | 0.02718 | 18.1  | 0.02595 | 17.3  | 0.03828            | 25.5  | 0.02891             | 19.3  |
| Spinach            | 3.60 |   | 0.00910 | 6.1   | 0.01895 | 12.6  | 0.01428 | 9.5   | 0.02042            | 13.6  | 0.01165             | 7.8   |
| Parsley            | 3.60 |   | 0.00235 | 1.6   | 0.00000 | 0.0   | 0.00112 | 0.7   | 0.00105            | 0.7   | 0.00394             | 2.6   |
| Beans without pods | 0.03 |   | 0.00005 | 0.0   | 0.00010 | 0.1   | 0.00017 | 0.1   | 0.00007            | 0.0   | 0.00018             | 0.1   |
| Celery             | 1.50 |   | 0.00871 | 5.8   | 0.01009 | 6.7   | 0.00890 | 5.9   | 0.00790            | 5.3   | 0.00629             | 4.2   |
| Fennel             | 1.50 |   | 0.02153 | 14.4  | 0.00000 | 0.0   | 0.00000 | 0.0   | 0.00000            | 0.0   | 0.00000             | 0.0   |
| Globe artichokes   | 0.31 |   | 0.00265 | 1.8   | 0.00000 | 0.0   | 0.00000 | 0.0   | 0.00000            | 0.0   | 0.00126             | 0.8   |
| Rhubarb            | 1.50 |   | 0.01173 | 7.8   | 0.05093 | 34.0  | 0.05580 | 37.2  | 0.01767            | 11.8  | 0.02555             | 17.0  |

|              |      |   | 11-14 year old child |       | 15-18 year old child |       | vegetarian |       | Elderly - own home |       | Elderly - residential |       |
|--------------|------|---|----------------------|-------|----------------------|-------|------------|-------|--------------------|-------|-----------------------|-------|
| commodity    | HR   | P | NESTI                | %ARfD | NESTI                | %ARfD | NESTI      | %ARfD | NESTI              | %ARfD | NESTI                 | %ARfD |
| Pistachios   | 0.02 |   | 0.00001              | 0.0   | 0.00002              | 0.0   | 0.00002    | 0.0   | 0.00000            | 0.0   | 0.00000               | 0.0   |
| Apples       | 0.11 |   | 0.00284              | 1.9   | 0.00233              | 1.6   | 0.00195    | 1.3   | 0.00146            | 1.0   | 0.00146               | 1.0   |
| Pears        | 0.11 |   | 0.00289              | 1.9   | 0.00221              | 1.5   | 0.00218    | 1.5   | 0.00203            | 1.4   | 0.00200               | 1.3   |
| Wine grapes  | 0.86 |   | 0.00607              | 4.0   | 0.01630              | 10.9  | 0.01839    | 12.3  | 0.01126            | 7.5   | 0.00288               | 1.9   |
| Table grapes | 0.86 |   | 0.03116              | 20.8  | 0.01556              | 10.4  | 0.02628    | 17.5  | 0.00969            | 6.5   | 0.00692               | 4.6   |
| Olives       | 1.40 |   | 0.00050              | 0.3   | 0.00045              | 0.3   | 0.00148    | 1.0   | 0.00107            | 0.7   | 0.00000               | 0.0   |

The evaluation of new MRLs for mefentrifluconazole in or on various commodities

|                    |      |  |         |      |         |      |         |      |         |      |         |     |
|--------------------|------|--|---------|------|---------|------|---------|------|---------|------|---------|-----|
| Lettuce            | 2.15 |  | 0.01792 | 11.9 | 0.01725 | 11.5 | 0.02363 | 15.8 | 0.01515 | 10.1 | 0.00848 | 5.7 |
| Spinach            | 3.60 |  | 0.01104 | 7.4  | 0.00586 | 3.9  | 0.01289 | 8.6  | 0.00769 | 5.1  | 0.00508 | 3.4 |
| Parsley            | 3.60 |  | 0.00104 | 0.7  | 0.00036 | 0.2  | 0.00431 | 2.9  | 0.00157 | 1.0  | 0.00151 | 1.0 |
| Beans without pods | 0.03 |  | 0.00004 | 0.0  | 0.00007 | 0.0  | 0.00010 | 0.1  | 0.00006 | 0.0  | 0.00005 | 0.0 |
| Celery             | 1.50 |  | 0.00845 | 5.6  | 0.00628 | 4.2  | 0.01243 | 8.3  | 0.00950 | 6.3  | 0.00317 | 2.1 |
| Fennel             | 1.50 |  | 0.00000 | 0.0  | 0.00000 | 0.0  | 0.02796 | 18.6 | 0.01562 | 10.4 | 0.00000 | 0.0 |
| Globe artichokes   | 0.31 |  | 0.00000 | 0.0  | 0.00000 | 0.0  | 0.00194 | 1.3  | 0.00000 | 0.0  | 0.00000 | 0.0 |
| Rhubarb            | 1.50 |  | 0.00925 | 6.2  | 0.01193 | 8.0  | 0.01392 | 9.3  | 0.01195 | 8.0  | 0.01317 | 8.8 |

Pesticide                      Mefentrifluconazole  
ARfD                              0.150    mg/Kg bw/day

Source

\* 0.00000 corresponds to <0.000005 mg/kg bw/day (any value ≥0.000005 is rounded to 0.00001

## 1,2,4 – T

|            |      |   | adult   |       | infant  |       | toddler |       | 4-6 year old child |       | 7-10 year old child |       |
|------------|------|---|---------|-------|---------|-------|---------|-------|--------------------|-------|---------------------|-------|
| commodity  | HR   | P | NESTI   | %ARfD | NESTI   | %ARfD | NESTI   | %ARfD | NESTI              | %ARfD | NESTI               | %ARfD |
| Pistachios | 0.03 |   | 0.00007 | 0.1   | 0.00000 | 0.0   | 0.00006 | 0.1   | 0.00001            | 0.0   | 0.00004             | 0.0   |

|            |      |   | 11-14 year old child |       | 15-18 year old child |       | vegetarian |       | Elderly - own home |       | Elderly - residential |       |
|------------|------|---|----------------------|-------|----------------------|-------|------------|-------|--------------------|-------|-----------------------|-------|
| commodity  | HR   | P | NESTI                | %ARfD | NESTI                | %ARfD | NESTI      | %ARfD | NESTI              | %ARfD | NESTI                 | %ARfD |
| Pistachios | 0.03 |   | 0.00001              | 0.0   | 0.00002              | 0.0   | 0.00002    | 0.0   | 0.00000            | 0.0   | 0.00000               | 0.0   |

Pesticide 1,2,4-T

ARfD 0.100 mg/Kg bw/day

Source

\* 0.00000 corresponds to <0.000005 mg/kg bw/day (any value ≥0.000005 is rounded to 0.00001)

## TA

|            |       |   | adult   |       | infant  |       | toddler |       | 4-6 year old child |       | 7-10 year old child |       |
|------------|-------|---|---------|-------|---------|-------|---------|-------|--------------------|-------|---------------------|-------|
| commodity  | HR    | P | NESTI   | %ARfD | NESTI   | %ARfD | NESTI   | %ARfD | NESTI              | %ARfD | NESTI               | %ARfD |
| Pistachios | 39.00 |   | 0.10427 | 34.8  | 0.00000 | 0.0   | 0.08607 | 28.7  | 0.01750            | 5.8   | 0.06715             | 22.4  |

|            |       |   | 11-14 year old child |       | 15-18 year old child |       | vegetarian |       | Elderly - own home |       | Elderly - residential |       |
|------------|-------|---|----------------------|-------|----------------------|-------|------------|-------|--------------------|-------|-----------------------|-------|
| commodity  | HR    | P | NESTI                | %ARfD | NESTI                | %ARfD | NESTI      | %ARfD | NESTI              | %ARfD | NESTI                 | %ARfD |
| Pistachios | 39.00 |   | 0.01324              | 4.4   | 0.02904              | 9.7   | 0.03064    | 10.2  | 0.00000            | 0.0   | 0.00000               | 0.0   |

Pesticide TA

ARfD 0.300 mg/Kg bw/day

Source

\* 0.00000 corresponds to <0.000005 mg/kg bw/day (any value ≥0.000005 is rounded to 0.00001)

The evaluation of new MRLs for mefentrifluconazole in or on various commodities

**TAA**

|            |      |   | adult   |       | infant  |       | toddler |       | 4-6 year old child |       | 7-10 year old child |       |
|------------|------|---|---------|-------|---------|-------|---------|-------|--------------------|-------|---------------------|-------|
| commodity  | HR   | P | NESTI   | %ARfD | NESTI   | %ARfD | NESTI   | %ARfD | NESTI              | %ARfD | NESTI               | %ARfD |
| Pistachios | 0.15 |   | 0.00040 | 0.0   | 0.00000 | 0.0   | 0.00033 | 0.0   | 0.00007            | 0.0   | 0.00026             | 0.0   |

|            |      |   | 11-14 year old child |       | 15-18 year old child |       | vegetarian |       | Elderly - own home |       | Elderly - residential |       |
|------------|------|---|----------------------|-------|----------------------|-------|------------|-------|--------------------|-------|-----------------------|-------|
| commodity  | HR   | P | NESTI                | %ARfD | NESTI                | %ARfD | NESTI      | %ARfD | NESTI              | %ARfD | NESTI                 | %ARfD |
| Pistachios | 0.15 |   | 0.00005              | 0.0   | 0.00011              | 0.0   | 0.00012    | 0.0   | 0.00000            | 0.0   | 0.00000               | 0.0   |

Pesticide TAA  
 ARfD 1.000 mg/Kg bw/day  
 Source  
 \* 0.00000 corresponds to <0.000005 mg/kg bw/day (any value ≥0.000005 is rounded to 0.00001)

## TLA

|            |      |   | adult   |       | infant  |       | toddler |       | 4-6 year old child |       | 7-10 year old child |       |
|------------|------|---|---------|-------|---------|-------|---------|-------|--------------------|-------|---------------------|-------|
| commodity  | HR   | P | NESTI   | %ARfD | NESTI   | %ARfD | NESTI   | %ARfD | NESTI              | %ARfD | NESTI               | %ARfD |
| Pistachios | 2.40 |   | 0.00642 | 2.1   | 0.00000 | 0.0   | 0.00530 | 1.8   | 0.00108            | 0.4   | 0.00413             | 1.4   |
| Celery     | 0.05 |   | 0.00029 | 0.1   | 0.00034 | 0.1   | 0.00030 | 0.1   | 0.00026            | 0.1   | 0.00021             | 0.1   |
| Fennel     | 0.05 |   | 0.00072 | 0.2   | 0.00000 | 0.0   | 0.00000 | 0.0   | 0.00000            | 0.0   | 0.00000             | 0.0   |
| Rhubarb    | 0.05 |   | 0.00039 | 0.1   | 0.00170 | 0.6   | 0.00186 | 0.6   | 0.00059            | 0.2   | 0.00085             | 0.3   |

|            |      |   | 11-14 year old child |       | 15-18 year old child |       | vegetarian |       | Elderly - own home |       | Elderly - residential |       |
|------------|------|---|----------------------|-------|----------------------|-------|------------|-------|--------------------|-------|-----------------------|-------|
| commodity  | HR   | P | NESTI                | %ARfD | NESTI                | %ARfD | NESTI      | %ARfD | NESTI              | %ARfD | NESTI                 | %ARfD |
| Pistachios | 2.40 |   | 0.00082              | 0.3   | 0.00179              | 0.6   | 0.00189    | 0.6   | 0.00000            | 0.0   | 0.00000               | 0.0   |
| Celery     | 0.05 |   | 0.00028              | 0.1   | 0.00021              | 0.1   | 0.00041    | 0.1   | 0.00032            | 0.1   | 0.00011               | 0.0   |
| Fennel     | 0.05 |   | 0.00000              | 0.0   | 0.00000              | 0.0   | 0.00093    | 0.3   | 0.00052            | 0.2   | 0.00000               | 0.0   |
| Rhubarb    | 0.05 |   | 0.00031              | 0.1   | 0.00040              | 0.1   | 0.00046    | 0.2   | 0.00040            | 0.1   | 0.00044               | 0.1   |

**Table B.4 Acute risk assessment undertaken using PRIMo revision 3.1****1,2,4 – T**

| Show results of IESTI calculation only for crops with GAPs under assessment                               |                                                                                                    |                          |                            |                     |                       |                          |                            |                     |
|-----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|--------------------------|----------------------------|---------------------|-----------------------|--------------------------|----------------------------|---------------------|
| Unprocessed commodities                                                                                   | <b>Results for children</b><br>No. of commodities for which ARfD/ADI is exceeded (IESTI):          |                          |                            |                     | ---                   |                          |                            |                     |
|                                                                                                           | <b>IESTI</b>                                                                                       |                          |                            |                     | <b>IESTI</b>          |                          |                            |                     |
|                                                                                                           | Highest % of ARfD/ADI                                                                              | Commodities              | MRL / input for RA (mg/kg) | Exposure (µg/kg bw) | Highest % of ARfD/ADI | Commodities              | MRL / input for RA (mg/kg) | Exposure (µg/kg bw) |
|                                                                                                           | 0.47%                                                                                              | Kaki/Japanese persimmons | 0 / 0.01                   | 0.47                | 0.22%                 | Kaki/Japanese persimmons | 0 / 0.01                   | 0.22                |
|                                                                                                           | 0.15%                                                                                              | Pistachios               | 0 / 0.03                   | 0.15                | 0.07%                 | Pistachios               | 0 / 0.03                   | 0.07                |
|                                                                                                           | 0.03%                                                                                              | Table olives             | 0 / 0.01                   | 0.03                | 0.01%                 | Table olives             | 0 / 0.01                   | 0.01                |
| Expand/collapse list                                                                                      |                                                                                                    |                          |                            |                     |                       |                          |                            |                     |
| <b>Total number of commodities exceeding the ARfD/ADI in children and adult diets (IESTI calculation)</b> |                                                                                                    |                          |                            |                     |                       |                          |                            |                     |
| Processed commodities                                                                                     | <b>Results for children</b><br>No of processed commodities for which ARfD/ADI is exceeded (IESTI): |                          |                            |                     | ---                   |                          |                            |                     |
|                                                                                                           | <b>IESTI</b>                                                                                       |                          |                            |                     | <b>IESTI</b>          |                          |                            |                     |
|                                                                                                           | Highest % of ARfD/ADI                                                                              | Processed commodities    | MRL / input for RA (mg/kg) | Exposure (µg/kg bw) | Highest % of ARfD/ADI | Processed commodities    | MRL / input for RA (mg/kg) | Exposure (µg/kg bw) |
|                                                                                                           | 0.0%                                                                                               | Table olives / canned    | 0 / 0.01                   | 0.01                | 0.0%                  | Table olives / canned    | 0 / 0.01                   | 0.01                |
|                                                                                                           | #NUM!                                                                                              | #NUM!                    | #NUM!                      | #NUM!               | #NUM!                 | #NUM!                    | #NUM!                      | #NUM!               |
|                                                                                                           | #NUM!                                                                                              | #NUM!                    | #NUM!                      | #NUM!               | #NUM!                 | #NUM!                    | #NUM!                      | #NUM!               |
| Expand/collapse list                                                                                      |                                                                                                    |                          |                            |                     |                       |                          |                            |                     |

**TA**

| Show results of IESTI calculation only for crops with GAPs under assessment |                                                                                                           |                          |                            |                     |                                                                                                  |                          |                            |                     |
|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|--------------------------|----------------------------|---------------------|--------------------------------------------------------------------------------------------------|--------------------------|----------------------------|---------------------|
| Unprocessed commodities                                                     | <b>Results for children</b><br>No. of commodities for which ARfD/ADI is exceeded (IESTI):                 |                          |                            |                     | <b>Results for adults</b><br>No. of commodities for which ARfD/ADI is exceeded (IESTI):          |                          |                            |                     |
|                                                                             | ---                                                                                                       |                          |                            |                     | ---                                                                                              |                          |                            |                     |
|                                                                             | <b>IESTI</b>                                                                                              |                          |                            |                     | <b>IESTI</b>                                                                                     |                          |                            |                     |
|                                                                             | Highest % of ARfD/ADI                                                                                     | Commodities              | MRL / input for RA (mg/kg) | Exposure (µg/kg bw) | Highest % of ARfD/ADI                                                                            | Commodities              | MRL / input for RA (mg/kg) | Exposure (µg/kg bw) |
|                                                                             | 75.31%                                                                                                    | Pistachios               | 0 / 39                     | 225.92              | 34.76%                                                                                           | Pistachios               | 0 / 39                     | 104.27              |
|                                                                             | 6.36%                                                                                                     | Kaki/Japanese persimmons | 0 / 0.41                   | 19.09               | 3.00%                                                                                            | Kaki/Japanese persimmons | 0 / 0.41                   | 9.01                |
| Processed commodities                                                       | 0.98%                                                                                                     | Table olives             | 0 / 0.87                   | 2.93                | 0.29%                                                                                            | Table olives             | 0 / 0.87                   | 0.87                |
|                                                                             | Expand/collapse list                                                                                      |                          |                            |                     |                                                                                                  |                          |                            |                     |
|                                                                             | <b>Total number of commodities exceeding the ARfD/ADI in children and adult diets (IESTI calculation)</b> |                          |                            |                     |                                                                                                  |                          |                            |                     |
|                                                                             |                                                                                                           |                          |                            |                     |                                                                                                  |                          |                            |                     |
| Processed commodities                                                       | <b>Results for children</b><br>No of processed commodities for which ARfD/ADI is exceeded (IESTI):        |                          |                            |                     | <b>Results for adults</b><br>No of processed commodities for which ARfD/ADI is exceeded (IESTI): |                          |                            |                     |
|                                                                             | ---                                                                                                       |                          |                            |                     | ---                                                                                              |                          |                            |                     |
|                                                                             | <b>IESTI</b>                                                                                              |                          |                            |                     | <b>IESTI</b>                                                                                     |                          |                            |                     |
|                                                                             | Highest % of ARfD/ADI                                                                                     | Processed commodities    | MRL / input for RA (mg/kg) | Exposure (µg/kg bw) | Highest % of ARfD/ADI                                                                            | Processed commodities    | MRL / input for RA (mg/kg) | Exposure (µg/kg bw) |
|                                                                             | 0.2%                                                                                                      | Table olives / canned    | 0 / 0.6                    | 0.67                | 0.3%                                                                                             | Table olives / canned    | 0 / 0.6                    | 0.76                |
|                                                                             | Expand/collapse list                                                                                      |                          |                            |                     |                                                                                                  |                          |                            |                     |

**TAA**

| Show results of IESTI calculation only for crops with GAPs under assessment                               |                                                                                           |                          |                          |            |                                                                                         |                          |                          |            |
|-----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------|--------------------------|------------|-----------------------------------------------------------------------------------------|--------------------------|--------------------------|------------|
| Unprocessed commodities                                                                                   | <b>Results for children</b><br>No. of commodities for which ARfD/ADI is exceeded (IESTI): |                          |                          |            | <b>Results for adults</b><br>No. of commodities for which ARfD/ADI is exceeded (IESTI): |                          |                          |            |
|                                                                                                           | ---                                                                                       |                          |                          |            | ---                                                                                     |                          |                          |            |
|                                                                                                           | <b>IESTI</b>                                                                              |                          |                          |            | <b>IESTI</b>                                                                            |                          |                          |            |
|                                                                                                           |                                                                                           |                          | MRL /<br>input for<br>RA | Exposure   |                                                                                         |                          | MRL /<br>input for<br>RA | Exposure   |
|                                                                                                           | Highest % of ARfD/ADI                                                                     | Commodities              | (mg/kg)                  | (µg/kg bw) | Highest % of<br>ARfD/ADI                                                                | Commodities              | (mg/kg)                  | (µg/kg bw) |
|                                                                                                           | 0.09%                                                                                     | Pistachios               | 0 / 0.15                 | 0.87       | 0.04%                                                                                   | Pistachios               | 0 / 0.15                 | 0.40       |
|                                                                                                           | 0.06%                                                                                     | Kaki/Japanese persimmons | 0 / 0.01                 | 0.61       | 0.03%                                                                                   | Kaki/Japanese persimmons | 0 / 0.01                 | 0.29       |
| 0.00%                                                                                                     | Table olives                                                                              | 0 / 0.01                 | 0.03                     | 0.00%      | Table olives                                                                            | 0 / 0.01                 | 0.01                     |            |
| Expand/collapse list                                                                                      |                                                                                           |                          |                          |            |                                                                                         |                          |                          |            |
| <b>Total number of commodities exceeding the ARfD/ADI in children and adult diets (IESTI calculation)</b> |                                                                                           |                          |                          |            |                                                                                         |                          |                          |            |

|                       |                                                                                                    |                       |                          |            |                                                                                                  |                       |                          |            |
|-----------------------|----------------------------------------------------------------------------------------------------|-----------------------|--------------------------|------------|--------------------------------------------------------------------------------------------------|-----------------------|--------------------------|------------|
| Processed commodities | <b>Results for children</b><br>No of processed commodities for which ARfD/ADI is exceeded (IESTI): |                       |                          |            | <b>Results for adults</b><br>No of processed commodities for which ARfD/ADI is exceeded (IESTI): |                       |                          |            |
|                       | ---                                                                                                |                       |                          |            | ---                                                                                              |                       |                          |            |
|                       | <b>IESTI</b>                                                                                       |                       |                          |            | <b>IESTI</b>                                                                                     |                       |                          |            |
|                       |                                                                                                    |                       | MRL /<br>input for<br>RA | Exposure   |                                                                                                  |                       | MRL /<br>input for<br>RA | Exposure   |
|                       | Highest % of ARfD/ADI                                                                              | Processed commodities | (mg/kg)                  | (µg/kg bw) | Highest % of<br>ARfD/ADI                                                                         | Processed commodities | (mg/kg)                  | (µg/kg bw) |
|                       | 0.0%                                                                                               | Table olives / canned | 0 / 0.01                 | 0.01       | 0.0%                                                                                             | Table olives / canned | 0 / 0.01                 | 0.01       |
| Expand/collapse list  |                                                                                                    |                       |                          |            |                                                                                                  |                       |                          |            |

**TLA**

| Show results of IESTI calculation only for crops with GAPs under assessment |                                                                                                           |                           |                            |                     |                                                                                         |                           |                            |                     |
|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|---------------------------|----------------------------|---------------------|-----------------------------------------------------------------------------------------|---------------------------|----------------------------|---------------------|
| Unprocessed commodities                                                     | <b>Results for children</b><br>No. of commodities for which ARfD/ADI is exceeded (IESTI):                 |                           |                            |                     | <b>Results for adults</b><br>No. of commodities for which ARfD/ADI is exceeded (IESTI): |                           |                            |                     |
|                                                                             | ---                                                                                                       |                           |                            |                     | ---                                                                                     |                           |                            |                     |
|                                                                             | <b>IESTI</b>                                                                                              |                           |                            |                     | <b>IESTI</b>                                                                            |                           |                            |                     |
|                                                                             | Highest % of ARfD/ADI                                                                                     | Commodities               | MRL / input for RA (mg/kg) | Exposure (µg/kg bw) | Highest % of ARfD/ADI                                                                   | Commodities               | MRL / input for RA (mg/kg) | Exposure (µg/kg bw) |
|                                                                             | 4.63%                                                                                                     | Pistachios                | 0 / 2.4                    | 13.90               | 2.14%                                                                                   | Pistachios                | 0 / 2.4                    | 6.42                |
|                                                                             | 0.62%                                                                                                     | Celeries                  | 0 / 0.05                   | 1.87                | 0.31%                                                                                   | Florence fennels          | 0 / 0.05                   | 0.93                |
|                                                                             | 0.62%                                                                                                     | Rhubarbs                  | 0 / 0.05                   | 1.86                | 0.28%                                                                                   | Kaki/Japanese persimmons  | 0 / 0.04                   | 0.83                |
| Processed commodities                                                       | 0.59%                                                                                                     | Kaki/Japanese persimmons  | 0 / 0.04                   | 1.77                | 0.27%                                                                                   | Celeries                  | 0 / 0.05                   | 0.80                |
|                                                                             | 0.27%                                                                                                     | Florence fennels          | 0 / 0.05                   | 0.81                | 0.17%                                                                                   | Cardoons                  | 0 / 0.05                   | 0.52                |
|                                                                             | 0.02%                                                                                                     | Table olives              | 0 / 0.02                   | 0.07                | 0.15%                                                                                   | Rhubarbs                  | 0 / 0.05                   | 0.46                |
|                                                                             | Expand/collapse list                                                                                      |                           |                            |                     |                                                                                         |                           |                            |                     |
|                                                                             | <b>Total number of commodities exceeding the ARfD/ADI in children and adult diets (IESTI calculation)</b> |                           |                            |                     |                                                                                         |                           |                            |                     |
|                                                                             | ---                                                                                                       |                           |                            |                     | ---                                                                                     |                           |                            |                     |
|                                                                             | <b>IESTI</b>                                                                                              |                           |                            |                     | <b>IESTI</b>                                                                            |                           |                            |                     |
|                                                                             | Highest % of ARfD/ADI                                                                                     | Processed commodities     | MRL / input for RA (mg/kg) | Exposure (µg/kg bw) | Highest % of ARfD/ADI                                                                   | Processed commodities     | MRL / input for RA (mg/kg) | Exposure (µg/kg bw) |
|                                                                             | 0.8%                                                                                                      | Florence fennels / boiled | 0 / 0.05                   | 2.27                | 0.6%                                                                                    | Celeries / boiled         | 0 / 0.05                   | 1.69                |
|                                                                             | 0.6%                                                                                                      | Rhubarbs / sauce/puree    | 0 / 0.05                   | 1.86                | 0.32%                                                                                   | Florence fennels / boiled | 0 / 0.05                   | 0.97                |
|                                                                             | 0.0%                                                                                                      | Table olives / canned     | 0 / 0.01                   | 0.01                | 0.24%                                                                                   | Rhubarbs / sauce/puree    | 0 / 0.05                   | 0.73                |

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|                      |       |       |       |       |       |                       |          |       |
|----------------------|-------|-------|-------|-------|-------|-----------------------|----------|-------|
|                      | #NUM! | #NUM! | #NUM! | #NUM! | 0.20% | Cardoons / boiled     | 0 / 0.05 | 0.61  |
|                      | #NUM! | #NUM! | #NUM! | #NUM! | 0.00% | Table olives / canned | 0 / 0.01 | 0.01  |
|                      | #NUM! | #NUM! | #NUM! | #NUM! | #NUM! | #NUM!                 | #NUM!    | #NUM! |
| Expand/collapse list |       |       |       |       |       |                       |          |       |

**Conclusion:**

No exceedance of the toxicological reference value was identified for any unprocessed commodity.

A short term intake of residues of tla is unlikely to present a public health risk.

For processed commodities, no exceedance of the ARfD/ADI was identified.

## **Appendix C - Detailed evaluation of the additional studies relied on**

### **C.1 Methods of analysis**

No additional studies submitted.

## **C.2 Mammalian toxicology**

No additional studies submitted.

## **C.3      Residue data**

### **C.3.1      Nature and magnitude of residues in primary crops**

#### **C.3.1.1 Nature of residues**

No additional studies submitted.

### C.3.1.2 Magnitude of residues

#### C.3.1.2.1 Pistachios

##### C.3.1.2.1.1 Study 1

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reference:             | Study on the residue behaviour of Mefentrifluconazole (BAS 750 F) in hazelnuts (cobnuts) and pistachio after application of BAS 750 05 F under field conditions in Southern Europe, 2019, [REDACTED] 2021, Study Code: 877925, BASF DocID: 2020/2080723                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Guideline(s):          | <p>Regulation (EC) no. 1107/2009 of the European Parliament and of the Council of 21 October 2009 concerning the placing of plant protection products on the market and repealing Council Directives 79/117/EEC and 91/414/EEC</p> <p>European Community Guideline 7029/VI/95 - rev.5, 22/07/97: General recommendations for the design preparation and realization of residue trials.</p> <p>European Community Guideline SANCO 7525/VI/95 - rev.10.3, June 2017: Comparability, extrapolation, group tolerances and data requirements for setting MRLs.</p> <p>OECD Guideline for the testing of chemicals – Crop Field Trials: OECD/OCDE 509. Adopted 7 September 2009</p> <p>Directive 2004/10/EC of 11th February 2004</p> |
| Deviations:            | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| GLP:                   | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Validity of the study: | Acceptable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

#### Materials and methods

Three trials on pistachios were conducted in Greece, Italy and Spain using 'BAS 750 05 F', an SC formulation containing 75 g/L mefentrifluconazole, in the 2019 growing season. Three trials on hazelnuts were also conducted but have not been assessed.

'BAS 750 05 F' was applied as a foliar spray at a nominal rate of 2 x 150 g/ha mefentrifluconazole (actual: 2 x 148 – 157 g a.s./ha) in 495 - 524 L/ha of water, resulting in a spray concentration of 30 g a.s./hL. The applications were made with a 7-8 day RTI and with last application at BBCH 78-81 and a 27-28 day PHI.

The applications support the notified critical GAP (2 x 150 g a.s./ha, 28 day PHI, applications between BBCH 19 -79 with a 7 day RTI).

As pistachios are a tall crop, residues may be driven by spray concentration due to direct application to the plant and the fact that the spray is often applied to run off. It is noted that the maximum spray concentration of the notified cGAP is 100 g a.s./hL (water volume: 150 L/ha). The spray concentration used in the trials is 30 g a.s./hL (water volume: 500 L/ha). From the trials data it is not possible to determine whether it is application rate or spray concentration which is predominantly driving the residue. However, previously assessed trials (HSE, 2023) on other fruit and fruiting vegetable crops show that the spray concentration does not have a significant effect on residues, therefore the trials are considered to support the notified use.

Weather data were reported for the trials and no exceptional events were noted. The trials were decline trials, samples of pistachio nutmeat were taken at 21-22, 27-28 and 34-35 days after last application. Samples of pistachio whole nut were taken at zero days after last application. Samples of nutmeat containing at least 1 kg were collected from both treated and control plots. Samples were frozen within 12 hours, and stored at  $\leq -18$  °C until analysis. The maximum storage interval between harvest and analysis for mefentrifluconazole was 119 days (whole nut) and 98 days (nutmeat). Data was considered in the DAR which demonstrates stability of mefentrifluconazole for this period of time in high oil crops when stored at  $\leq -18$  °C (EFSA, 2018b). The maximum storage interval between harvest and analysis for TDMs was 58 days (whole nut) and 37 days (nutmeat). Data was considered in the TDM Review (EFSA, 2018a) which demonstrates stability of TDMs for this period of time in high oil crops when stored at  $\leq -18$  °C.

Analysis for mefentrifluconazole was performed using LC-MS/MS (method L0076/09) with an LOQ of 0.01 mg/kg. Analysis for TDMs were performed using LC-DMS-MS/MS (method L0170/02) with an LOQ of 0.01 mg/kg per analyte.

## Results and discussions

The analytical method for analysing residues of mefentrifluconazole (L0076/09) was satisfactorily validated in accordance with SANCO 3029/99 rev. 4 on high oil commodities (UK, 2018b). The LOQ of the method is 0.01 mg/kg. The method was considered applicable to pistachios as 14 procedural recoveries for pistachios (mean recovery of 95.9%) were presented across the 0.010, 0.10 and 10 mg/kg fortification levels.

The analytical method for analysing residues of TDMs (L0170/02) was satisfactorily validated in accordance with SANCO 3029/99 rev. 4 on high oil commodities (UK, 2018a). The LOQ of the method is 0.01 mg/kg per analyte. The method was considered applicable to pistachios as 24 procedural recoveries for pistachios (mean recovery of 93 - 104%) were presented across the 0.010, 0.10, 10 (nutmeat and whole nuts) and 30 (nutmeat only) mg/kg fortification levels for each TDM.

No residues of mefentrifluconazole or 1,2,4-T at or above the LOQ were detected in control samples for all trials. Residues of TAA (up to 0.34 mg/kg) and TLA (up to 1.0 mg/kg) were found in control samples from some trials. Residues of TA (up to 19 mg/kg) were found in all control samples from all trials.

Residues of mefentrifluconazole in pistachio nutmeat at 28 days after last application were between 0.015 - 0.024 mg/kg.

Residues of 1,2,4-T in pistachio nutmeat at 28 days after last application were between <0.01 – 0.026 mg/kg.

Residues of TA in pistachio nutmeat at 28 days after last application were between 0.86-28 mg/kg.

Residues of TAA in pistachio nutmeat at 28 days after last application were between <0.01 – 0.15 mg/kg.

Residues of TLA in pistachio nutmeat at 28 days after last application were between 0.044 – 1.6 mg/kg.

A summary of the residues trials is given in Table C.3.1.2.1.1-1.

**Table C.3.1.2.1.1-1 Residue trials on pistachio**

|                              |                                                                                                                                                                                                                                                         |                                  |                                                             |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------------------------------|
| Reference:                   | Study on the residue behaviour of Mefentrifluconazole (BAS 750 F) in hazelnuts (cobnuts) and pistachio after application of BAS 750 05 F under field conditions in Southern Europe, 2019, [REDACTED] 2021, Study Code: 877925, BASF DocID: 2020/2080723 |                                  |                                                             |
| GLP:                         | Yes                                                                                                                                                                                                                                                     | Sample storage conditions:       | 119 days mefentrifluconazole; and 58 days for TDMs at -18°C |
| Crop/crop group:             | Pistachio/ Tree nuts                                                                                                                                                                                                                                    | Analytical method:               | Mefentrifluconazole: L0076/09;<br><br>TDMs: L0170/02        |
| Indoor/outdoor:              | Outdoor                                                                                                                                                                                                                                                 | Limit of Quantification (mg/kg): | 0.01                                                        |
| Formulation:                 | SC                                                                                                                                                                                                                                                      | Residues calculated as:          | Mefentrifluconazole, 1,2,4-T, TA, TAA and TLA               |
| Content of active substance: | 75 g/L                                                                                                                                                                                                                                                  |                                  |                                                             |

| Report No.<br>Location<br><br>(EU-region)<br>trial No               | Commodity/<br>Variety                   | Date of<br>1. Sowing or<br>planting<br>2. Flowering<br>3. Harvest | Application rate per treatment |               |             | No. of<br>treat-<br>ments<br>and last<br>date | RTI (days) | Growth<br>stage<br><br>at last date | Portion<br>analysed | DALA<br>(days) | Residues (mg/kg)         |              |           |             |            |
|---------------------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------------|--------------------------------|---------------|-------------|-----------------------------------------------|------------|-------------------------------------|---------------------|----------------|--------------------------|--------------|-----------|-------------|------------|
|                                                                     |                                         |                                                                   | kg<br>as/hL                    | Water<br>L/ha | kg<br>as/ha |                                               |            |                                     |                     |                | Mefentri-<br>fluconazole | 1,2,4-T      | TA        | TAA         | TLA        |
| 2020/2080723<br>GR-63200<br>Nea<br>Tenedos<br>Chalkidiki,<br>Greece | Pistachio<br>TN 0675<br>PIAVE<br>Eginis | 1. 20.03.92                                                       | 0.03                           | 498.0         | 0.1494      | 2<br>09.07.19                                 | 8          | BBCH 81                             | Whole               | 0              | 2.4                      | <0.010       | 7.5       | 0.27        | 1.4        |
|                                                                     |                                         | 2. 01.04.19-                                                      | 0.03                           | 502.0         | 0.1505      |                                               |            |                                     | Nuts                | 21             | 0.019                    | <0.010       | 24        | 0.088       | 0.96       |
|                                                                     |                                         | 15.04.19                                                          |                                |               |             |                                               |            |                                     | Nutmeat             | 27             | 0.014                    | <0.010       | 25        | 0.10        | 1.2        |
|                                                                     |                                         | 3. 01.08.19-<br>15.08.19                                          |                                |               |             |                                               |            |                                     | Nutmeat<br>Nutmeat  | 34             | <u>0.015</u>             | <u>0.026</u> | <u>28</u> | <u>0.15</u> | <u>1.6</u> |

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| Report No.<br>Location<br><br>(EU-region)<br>trial No                                                   | Commodity/<br>Variety                    | Date of<br>1. Sowing or<br>2. Flowering<br>3. Harvest  | Application rate per treatment |               |             | No. of<br>treatments<br>and last<br>date | RTI (days) | Growth<br>stage<br><br>at last date | Portion<br>analysed | DALA<br>(days) | Residues (mg/kg)         |                  |             |                  |              |
|---------------------------------------------------------------------------------------------------------|------------------------------------------|--------------------------------------------------------|--------------------------------|---------------|-------------|------------------------------------------|------------|-------------------------------------|---------------------|----------------|--------------------------|------------------|-------------|------------------|--------------|
|                                                                                                         |                                          |                                                        | kg<br>as/hL                    | Water<br>L/ha | kg<br>as/ha |                                          |            |                                     |                     |                | Mefentri-<br>fluconazole | 1,2,4-T          | TA          | TAA              | TLA          |
| (S-EU)<br>(877925,<br>L190288)                                                                          |                                          |                                                        | -                              | -             | -           | -                                        | -          | -                                   | Whole               | 0              | <0.010                   | <0.010           | 4.7         | 0.34             | 1.0          |
|                                                                                                         |                                          |                                                        |                                |               |             |                                          |            |                                     | Nuts                | 21             | <0.010                   | <0.010           | 15          | 0.069            | 0.63         |
|                                                                                                         |                                          |                                                        |                                |               |             |                                          |            |                                     | Nutmeat             | 27             | <0.010                   | <0.010           | 19          | 0.12             | 1.0          |
|                                                                                                         |                                          |                                                        |                                |               |             |                                          |            |                                     | Nutmeat             | 34             | <0.010                   | <0.010           | 11          | 0.072            | 0.65         |
|                                                                                                         |                                          |                                                        |                                |               |             |                                          |            |                                     | Nutmeat             |                |                          |                  |             |                  |              |
| 2020/208072<br>3IT-75018<br>Stigliano<br>Matera, Italy<br>(S-EU)<br><br>(877925,<br>L190289)            | PistachioTN<br>0675<br>PIAVE<br>Aegina   | 1. 15.04.92<br>2. 05.04.19-<br>05.06.19<br>3. 27.08.19 | 0.03                           | 524           | 0.1572      | 2                                        | 7          | BBCH 78                             | Whole               | 0              | 1.5                      | <0.010           | 0.21        | <0.010           | 0.064        |
|                                                                                                         |                                          |                                                        | 0.03                           | 521           | 0.1563      | 30.07.19                                 |            |                                     | Nuts                | 22             | 0.045                    | <0.010           | 1.2         | <0.010           | 0.062        |
|                                                                                                         |                                          |                                                        |                                |               |             |                                          |            |                                     | Nutmeat             | 28             | <u>0.024</u>             | <u>&lt;0.010</u> | 0.9         | <u>&lt;0.010</u> | 0.066        |
|                                                                                                         |                                          |                                                        |                                |               |             |                                          |            |                                     | Nutmeat             | 35             | 0.024                    | <0.010           | 1.0         | <0.010           | <u>0.091</u> |
|                                                                                                         |                                          |                                                        |                                |               |             |                                          |            |                                     | Nutmeat             |                |                          |                  |             |                  |              |
|                                                                                                         |                                          |                                                        |                                |               |             |                                          |            |                                     | Whole               | 0              | <0.010                   | <0.010           | 0.46        | 0.014            | 0.13         |
|                                                                                                         |                                          |                                                        |                                |               |             |                                          |            |                                     | Nuts                | 22             | <0.010                   | <0.010           | 1.3         | <0.010           | 0.073        |
|                                                                                                         |                                          |                                                        |                                |               |             |                                          |            |                                     | Nutmeat             | 28             | <0.010                   | <0.010           | <u>1.2</u>  | <0.010           | 0.059        |
|                                                                                                         |                                          |                                                        |                                |               |             |                                          |            |                                     | Nutmeat             | 35             | <0.010                   | <0.010           | 0.96        | <0.010           | 0.062        |
|                                                                                                         |                                          |                                                        |                                |               |             |                                          |            |                                     | Nutmeat             |                |                          |                  |             |                  |              |
| 2020/208072<br>3ES-06140<br>Talavera la<br>Real<br>Bandajoz,<br>Spain<br>(S-EU)<br>(877925,<br>L190290) | Pistachio<br>TN 0675<br>PIAVE<br>Laranka | 1. 05.02.08<br>2. 16.03.19-<br>30.03.19<br>3. 06.09.19 | 0.03                           | 504           | 0.1512      | 2                                        | 7          | BBCH 81                             | Whole               | 0              | 2.2                      | <0.010           | 0.16        | <0.010           | 0.013        |
|                                                                                                         |                                          |                                                        | 0.03                           | 494.7         | 0.1484      | 30.07.19                                 |            |                                     | Nuts                | 21             | 0.026                    | <0.010           | 0.76        | <0.010           | 0.036        |
|                                                                                                         |                                          |                                                        |                                |               |             |                                          |            |                                     | Nutmeat             | 28             | 0.012                    | <u>&lt;0.010</u> | <u>0.86</u> | <u>&lt;0.010</u> | 0.037        |
|                                                                                                         |                                          |                                                        |                                |               |             |                                          |            |                                     | Nutmeat             | 35             | <u>0.018</u>             | <0.010           | 0.77        | <0.010           | <u>0.044</u> |
|                                                                                                         |                                          |                                                        |                                |               |             |                                          |            |                                     | Nutmeat             |                |                          |                  |             |                  |              |
|                                                                                                         |                                          |                                                        |                                |               |             |                                          |            |                                     | Whole               | 0              | <0.010                   | <0.010           | 0.055       | <0.010           | 0.011        |
|                                                                                                         |                                          |                                                        |                                |               |             |                                          |            |                                     | Nuts                | 21             | <0.010                   | <0.010           | 0.11        | <0.010           | <0.01        |
|                                                                                                         |                                          |                                                        |                                |               |             |                                          |            |                                     | Nutmeat             | 28             | <0.010                   | <0.010           | 0.097       | <0.010           | 0            |
|                                                                                                         |                                          |                                                        |                                |               |             |                                          |            |                                     | Nutmeat             | 35             | <0.010                   | <0.010           | 0.075       | <0.010           | <0.01        |
|                                                                                                         |                                          |                                                        |                                |               |             |                                          |            |                                     | Nutmeat             |                |                          |                  |             |                  | 0            |

#### **C.3.1.2.1.2 Study 2**

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reference:             | Study on the residue behaviour of BAS 750 F (Mefentrifluconazole) in hazelnuts (cobnuts) and pistachio after application of BAS 750 11 F under field conditions in Southern Europe, 2020, [REDACTED] 2024, Study Code: 884405, BASF DocID: 2021/2010278                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Guideline(s):          | <p>Regulation (EC) no. 1107/2009 of the European Parliament and of the Council of 21 October 2009 concerning the placing of plant protection products on the market and repealing Council Directives 79/117/EEC and 91/414/EEC.</p> <p>European Community Guideline 7029/VI/95 - rev.5, 22/07/97: General recommendations for the design preparation and realization of residue trials.</p> <p>European Community Guideline SANCO 7525/VI/95 - rev.10.3, June 2017: Comparability, extrapolation, group tolerances and data requirements for setting MRLs.</p> <p>OECD Guideline for the testing of chemicals – Crop Field Trials: OECD/OCDE 509. Adopted 7 September 2009.</p> <p>Directive 2004/10/EC of 11th February 2004.</p> |
| Deviations:            | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| GLP:                   | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Validity of the study: | Acceptable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

#### **Materials and methods**

Three trials on pistachios were conducted in Greece, Italy and Spain using 'BAS 750 11 F', an SC formulation containing 75 g/L mefentrifluconazole, in the 2020 growing season. Three trials on hazelnuts were also conducted but have not been assessed.

'BAS 750 11 F' was applied as a foliar spray at a nominal rate of 2 x 150 g/ha mefentrifluconazole (actual: 2 x 144 – 154 g a.s./ha) in 480 - 514 L/ha of water, resulting in a spray concentration of 30 g a.s./hL. The applications were made with a 6-7 day RTI, with last application at BBCH 78-81 and a 27-28 day PHI.

The applications support the notified critical GAP (2 x 150 g a.s./ha, 28 day PHI, applications between BBCH 19 -79 with a 7 day RTI).

As pistachios are a tall crop, residues may be driven by spray concentration due to direct application to the plant and the fact that the spray is often applied to run off. It is noted that the maximum spray concentration of the notified cGAP is 100 g a.s./hL (water volume: 150 L/ha). The spray concentration used in the trials is 30 g a.s./hL (water volume: 500 L/ha). From the trials data it is not possible to determine whether it is application rate or spray concentration which is predominantly driving the residue. However, previously assessed trials (HSE, 2023) on other fruit and fruiting vegetable crops show that the spray concentration does not have a significant effect on residues, therefore the trials support the notified use.

Weather data were reported for the trials and no exceptional events were noted. The trials were decline trials, samples of pistachio nutmeat were taken at 21, 27-28 and 34-35 days after last application. Samples of pistachio whole nut were taken at zero days after last application. Samples of nutmeat containing at least 1 kg were collected from both treated and control plots. Samples were frozen within 12 hours and stored at  $\leq -18^{\circ}\text{C}$  until analysis. The maximum storage interval between harvest and analysis of mefentrifluconazole was 79 days (whole nut) and 61 days (nutmeat). Data was considered in the DAR which demonstrates stability of mefentrifluconazole for this period of time in high oil crops when stored at  $\leq -18^{\circ}\text{C}$  (EFSA, 2018b). The maximum storage interval between harvest and analysis for TDMs was 50 days (whole nut) and 35 days (nutmeat). Data was considered in the TDM Review (EFSA, 2018a) which demonstrates stability of TDMs for this period of time in high oil crops when stored at  $\leq -18^{\circ}\text{C}$ .

Analysis for mefentrifluconazole was performed using LC-MS/MS (method L0076/09) with an LOQ of 0.01 mg/kg. Analysis for TDMs were performed using LC-DMS-MS/MS (method L0170/02) with an LOQ of 0.01 mg/kg per analyte.

## **Results and discussions**

The analytical method for analysing residues of mefentrifluconazole (L0076/09) was satisfactorily validated in accordance with SANCO 3029/99 rev. 4 on high oil commodities (UK, 2018b). The LOQ of the method is 0.01 mg/kg. The method was considered applicable to pistachios as 14 procedural recoveries for pistachios (mean recovery of 92.7%) were presented across the 0.010, 0.10 and 10 mg/kg fortification levels.

The analytical method for analysing residues of TDMs (L0170/02) was satisfactorily validated in accordance with SANCO 3029/99 rev. 4 on high oil commodities (UK, 2018a). The LOQ of the method is 0.01 mg/kg per analyte. The method was considered applicable to pistachios as at least 14 procedural recoveries for pistachios (mean recovery of 88.4 – 97.9%) were presented across the 0.010, 0.10, 10 (nutmeat and whole nuts for all TDMs) and 60 (TA, nutmeat only) mg/kg fortification levels.

No residues of mefentrifluconazole or 1,2,4-T at or above the LOQ were detected in control samples for all trials. Residues of TAA (up to 0.23 mg/kg) and TLA (up to 1.8 mg/kg) were found in control samples for some trials. Residues of TA (up to 41 mg/kg) were found in all control samples from all trials.

Residues of mefentrifluconazole in pistachio nutmeat at 28 days after last application were between <0.01-0.018 mg/kg.

Residues of 1,2,4-T in pistachio nutmeat at 28 days after last application were <0.01 mg/kg.

Residues of TA in pistachio nutmeat at 28 days after last application were between 0.58-39 mg/kg.

Residues of TAA in pistachio nutmeat at 28 days after last application were between <0.01 – 0.12 mg/kg.

Residues of TLA in pistachio nutmeat at 28 days after last application were between 0.039 – 2.4 mg/kg.

A summary of the residues trials is given in Table C.3.1.2.1.2-1.

**Table C.3.1.2.1.2-1 Residue trials on pistachio**

|                              |                                                                                                                                                                                                                                                         |                                  |                                                            |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------------------------|
| Reference:                   | Study on the residue behaviour of BAS 750 F (Mefentrifluconazole) in hazelnuts (cobnuts) and pistachio after application of BAS 750 11 F under field conditions in Southern Europe, 2020, ██████████ 2024, Study Code: 884405, BASF DocID: 2021/2010278 |                                  |                                                            |
| GLP:                         | Yes                                                                                                                                                                                                                                                     | Sample storage conditions:       | 79 days mefentrifluconazole; and 50 days for TDMs at -18°C |
| Crop/crop group:             | Pistachio/ Tree nuts                                                                                                                                                                                                                                    | Analytical method:               | Mefentrifluconazole: L0076/09;<br>TDMs: L0170/02           |
| Indoor/outdoor:              | Outdoor                                                                                                                                                                                                                                                 | Limit of Quantification (mg/kg): | 0.01                                                       |
| Formulation:                 | SC                                                                                                                                                                                                                                                      | Residues calculated as:          | Mefentrifluconazole, 1,2,4-T, TA, TAA and TLA              |
| Content of active substance: | 75 g/L                                                                                                                                                                                                                                                  |                                  |                                                            |

| Report No.<br>Location<br>(EU-region)<br>trial No                                      | Commodity/<br>Variety                   | Date of<br>1. Sowing or<br>planting<br>2. Flowering<br>3. Harvest | Application rate treatment<br>per |               |          | No. of<br>treat-<br>ments<br>and last<br>date | RTI<br>(days) | Growth<br>stage<br>at last<br>date | Portion<br>analysed | DALA<br>(days) | Residues (mg/kg)         |                  |           |             |            |
|----------------------------------------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------------|-----------------------------------|---------------|----------|-----------------------------------------------|---------------|------------------------------------|---------------------|----------------|--------------------------|------------------|-----------|-------------|------------|
|                                                                                        |                                         |                                                                   | kg as/hL                          | Water<br>L/ha | kg as/ha |                                               |               |                                    |                     |                | Mefentri-<br>fluconazole | 1,2,4-T          | TA        | TAA         | TLA        |
| 2021/2010278<br>63200 Nea<br>Tenedos<br>Chalkidiki,<br>Greece<br><br>(S-EU)<br>L200251 | Pistachio<br>TN 0675<br>PIAVE<br>Eginis | 1. 20.03.92                                                       | 0.03                              | 497.6         | 0.1493   | 2<br>08.07.20                                 | 6             | BBCH<br>79                         | Whole               | 0              | 1.1                      | <0.010           | 12        | 0.22        | 2.7        |
|                                                                                        |                                         | 2. 05.04.2020                                                     | 0.03                              | 493.9         | 0.1482   |                                               |               |                                    | Nuts                | 21             | 0.037                    | <0.010           | 51        | 0.10        | 1.7        |
|                                                                                        |                                         | —                                                                 |                                   |               |          |                                               |               |                                    | Nutmeat             | 27             | <u>0.016</u>             | <u>&lt;0.010</u> | <u>39</u> | 0.083       | 1.8        |
|                                                                                        |                                         | 18.04.2020                                                        |                                   |               |          |                                               |               |                                    | Nutmeat             | 34             | 0.013                    | <0.010           | 39        | <u>0.12</u> | <u>2.4</u> |
|                                                                                        |                                         | 3. 05.08.2020                                                     |                                   |               |          |                                               |               |                                    | Nutmeat             |                |                          |                  |           |             |            |
|                                                                                        |                                         | —                                                                 |                                   |               |          | —                                             | —             | —                                  |                     |                |                          |                  |           |             |            |
|                                                                                        |                                         | 15.08.2020                                                        |                                   |               |          |                                               |               |                                    |                     |                |                          |                  |           |             |            |
|                                                                                        |                                         |                                                                   | -                                 | -             | -        |                                               |               |                                    | Whole               | 0              | <0.010                   | <0.010           | 8.6       | 0.23        | 1.8        |
|                                                                                        |                                         |                                                                   |                                   |               |          |                                               |               |                                    | Nuts                | 21             | <0.010                   | <0.010           | 41        | 0.076       | 1.3        |
|                                                                                        |                                         |                                                                   |                                   |               |          |                                               |               |                                    | Nutmeat             | 27             | <0.010                   | <0.010           | 24        | 0.067       | 1.4        |
|                                                                                        |                                         |                                                                   |                                   |               |          |                                               |               |                                    | Nutmeat             | 34             | <0.010                   | <0.010           | 20        | 0.056       | 1.4        |

The evaluation of new MRLs for mefentrifluconazole in or on various commodities

| Report No.<br>Location<br>(EU-region)<br>trial No                                       | Commodity/<br>Variety                    | Date of<br>1. Sowing or<br>planting<br>2. Flowering<br>3. Harvest | Application rate treatment<br>per |               |          | No. of<br>treat-<br>ments<br>and last<br>date | RTI<br>(days) | Growth<br>stage<br>at last<br>date | Portion<br>analysed | DALA<br>(days) | Residues (mg/kg)         |                  |             |                  |              |
|-----------------------------------------------------------------------------------------|------------------------------------------|-------------------------------------------------------------------|-----------------------------------|---------------|----------|-----------------------------------------------|---------------|------------------------------------|---------------------|----------------|--------------------------|------------------|-------------|------------------|--------------|
|                                                                                         |                                          |                                                                   | kg as/hL                          | Water<br>L/ha | kg as/ha |                                               |               |                                    |                     |                | Mefentri-<br>fluconazole | 1,2,4-T          | TA          | TAA              | TLA          |
| 2021/2010278<br>75018<br>Stigliano<br>Matera, Italy<br>(S-EU)<br><br>L200252            | Pistachio<br>TN 0675<br>PIAVE<br>Aegina  | 1. 15.04.92<br>2. 10.04.2020<br>–<br>08.06.2020<br>3. 25.08.2020  | 0.03                              | 510.5         | 0.1532   | 2<br>28.07.20                                 | 7             | BBCH<br>78                         | Whole               | 0              | 1.8                      | <0.010           | 0.30        | <0.010           | 0.081        |
|                                                                                         |                                          |                                                                   | 0.03                              | 513.5         | 0.1541   |                                               |               |                                    | Nuts                | 21             | 0.024                    | <0.010           | 1.1         | <0.010           | 0.10         |
|                                                                                         |                                          |                                                                   |                                   |               |          |                                               |               |                                    | Nutmeat             | 28             | <u>0.018</u>             | <u>&lt;0.010</u> | <u>1.1</u>  | <u>&lt;0.010</u> | 0.13         |
|                                                                                         |                                          |                                                                   |                                   |               |          |                                               |               |                                    | Nutmeat             | 35             | 0.013                    | <0.010           | 0.86        | <0.010           | <u>0.14</u>  |
|                                                                                         |                                          |                                                                   | -                                 | -             | -        | -                                             | -             | -                                  | Whole               | 0              | <0.010                   | <0.010           | 0.23        | <0.010           | 0.054        |
|                                                                                         |                                          |                                                                   |                                   |               |          |                                               |               |                                    | Nuts                | 22             | <0.010                   | <0.010           | 0.65        | <0.010           | 0.051        |
|                                                                                         |                                          |                                                                   |                                   |               |          |                                               |               |                                    | Nutmeat             | 28             | <0.010                   | <0.010           | 0.44        | <0.010           | 0.031        |
|                                                                                         |                                          |                                                                   |                                   |               |          |                                               |               |                                    | Nutmeat             | 35             | <0.010                   | <0.010           | 0.6         | <0.010           | 0.084        |
| 2021/2010278<br>06140<br>Talavera la<br>Real<br>Bandajoz,<br>Spain<br>(S-EU)<br>L200253 | Pistachio<br>TN 0675<br>PIAVE<br>Laranka | 1. 05.02.08<br>2. 18.03.2020<br>–<br>02.04.2020<br>3. 03.09.2020  | 0.03                              | 480.0         | 0.1440   | 2<br>29.07.20                                 | 7             | BBCH<br>81                         | Whole               | 0              | 1.5                      | <0.010           | 0.089       | <0.010           | <0.010       |
|                                                                                         |                                          |                                                                   | 0.03                              | 502.4         | 0.1507   |                                               |               |                                    | Nuts                | 21             | <0.010                   | <0.010           | 0.59        | <0.010           | 0.033        |
|                                                                                         |                                          |                                                                   |                                   |               |          |                                               |               |                                    | Nutmeat             | 28             | <u>&lt;0.010</u>         | <u>&lt;0.010</u> | <u>0.58</u> | <u>&lt;0.010</u> | <u>0.039</u> |
|                                                                                         |                                          |                                                                   |                                   |               |          |                                               |               |                                    | Nutmeat             | 34             | <0.010                   | <0.010           | 0.50        | <0.010           | 0.037        |
|                                                                                         |                                          |                                                                   | -                                 | -             | -        | -                                             | -             | -                                  | Whole               | 0              | <0.010                   | <0.010           | 0.018       | <0.010           | <0.010       |
|                                                                                         |                                          |                                                                   |                                   |               |          |                                               |               |                                    | Nuts                | 21             | <0.010                   | <0.010           | 0.035       | <0.010           | <0.010       |
|                                                                                         |                                          |                                                                   |                                   |               |          |                                               |               |                                    | Nutmeat             | 28             | <0.010                   | <0.010           | 0.014       | <0.010           | <0.010       |
|                                                                                         |                                          |                                                                   |                                   |               |          |                                               |               |                                    | Nutmeat             | 35             | <0.010                   | <0.010           | 0.031       | <0.010           | <0.010       |

### C.3.1.2.2 Grapes

#### C.3.1.2.2.1 Study 1

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reference:             | Residue study of mefentrifluconazole and pyraclostrobin in grape (fruits) after treatment with BAS 751 01 F, under field conditions in Brazil and Chile, [REDACTED] 2019, Study Code: 847565, BASF DocID: 2019/3001691                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Guideline(s):          | <p>NIT-DICLA-034 Revision 03 - Aplicação dos Princípios de BPL aos Estudos de Campo (Application of GLP principles to field studies) – CGCRE/INMETRO – September/2011.</p> <p>NIT-DICLA-034 Revision 04 - Aplicação dos Princípios de BPL aos Estudos de Campo (Application of GLP principles to field studies) - Cgcre - November/2018. *</p> <p>NIT-DICLA-035 Revision 02 - Princípios das Boas Práticas de Laboratório - BPL (Principles of Good Laboratory Practice - GLP) - CGCRE/INMETRO - September/ 2011.</p> <p>NIT-DICLA-035 Revision 03 - Princípios das Boas Práticas de Laboratório - BPL (Principles of Good Laboratory Practice - GLP) - Cgcre - November/2018. *</p> <p>OECD Series on Principles of Good Laboratory Practice (as revised in 1997)</p> |
| Deviations:            | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| GLP:                   | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Validity of the study: | Acceptable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

### Materials and methods

Eight trials on grapes were conducted in Brazil and Chile using 'BAS 751 01 F', an SC formulation containing 200 g/L mefentrifluconazole and 200 g/l pyraclostrobin, in the 2018 growing season. One trial was undertaken on wine grapes and the remaining seven trials on table grapes.

'BAS 751 01 F' was applied as a foliar spray at a rate of 4 x 100 g/ha mefentrifluconazole in 1000 L/ha of water, spray concentration 0.01 kg a.s./hL. The four applications were made with a 7-8 day RTI and with last application at BBCH 83 and a 14 day PHI. A growth stage is not specified in the notified GAP. The latest BBCH of normal commercial harvest of grapes is BBCH 89. The BBCH at the last application in the trials was BBCH 79-85 which is very close to, or the same principle growth stage of normal commercial harvest. Additionally, a

PHI of 14 days was used which matches the notified GAP.

The applications support the notified critical GAP (4 x 100 g a.s./ha, 14 day PHI, 7 day RTI).

As grapes are a tall crop, residues may be driven by spray concentration due to direct application to the plant and the fact that the spray is often applied to run off. It is noted that the maximum spray concentration of the notified cGAP is 0.01 kg/hL (water volume: 1000 L/ha). The spray concentration used in the trials was 0.01 kg/hL. As the spray concentration in the trials is in line with the cGAP, no further consideration is required.

Weather data were reported for the trials and no exceptional events were noted. The trials were decline trials, samples of grape (fruit) were taken at 7, 14, 21 and 28 days after last application. Samples containing at least 12 bunches and weighing at least 1.0 kg were collected from both treated and control plots. Samples were frozen within 24 hours, and stored at  $\leq -20$  °C until analysis. The maximum storage interval between harvest and analysis was 257 days for mefentrifluconazole. Data was considered in the DAR which demonstrates stability of mefentrifluconazole for this period of time in high acid crops when stored at  $\leq -18$  °C (EFSA, 2018b). The study did not analyse for TDMs.

Analysis for mefentrifluconazole was performed using LC-MS/MS (method L0076/09) with an LOQ of 0.01 mg/kg.

## **Results and discussions**

The analytical method (L0076/09) was satisfactorily validated in accordance with SANCO 3029/99 rev. 4 on high acid commodities (EFSA, 2018a). The LOQ of the method is 0.01 mg/kg. The method was considered applicable to grapes as 6 procedural recoveries (mean recovery 99.9%) were provided across the 0.01 and 1.0 mg/kg fortification levels.

No residues of mefentrifluconazole were detected in control samples for all trials.

Residues of mefentrifluconazole in grape (fruits) at 14 days after last application were between 0.12 - 0.86 mg/kg.

A summary of the residues trials is given in Table C.3.1.2.2.1-1.

**Table C.3.1.2.2.1-1 Residue trials on grapes**

Reference: Residue study of mefentrifluconazole and pyraclostrobin in grape (fruits) after treatment with BAS 751 01 F, under field conditions in Brazil and Chile, [REDACTED] 2019, Study Code: 847565, BASF DocID: 2019/3001691

GLP: Yes Sample storage conditions: Mefentrifluconazole: 257 days and -18°C

Crop/crop group: Grapes/ Analytical method: L0076/09, validated

Fruit and fruiting vegetables

Indoor/outdoor: Outdoor Limit of Quantification (mg/kg): 0.01

Formulation: SC Residues calculated as: Mefentrifluconazole

Content of active substance: 200 g/L

| Report No.<br>Location<br>trial No                                                 | Commodity/<br>Variety                           | Date of<br>1. Sowing or<br>planting<br>2. Flowering<br>3. Harvest | Application rate per treatment |            |          | No. of treat-<br>ments and<br>last date | RTI<br>(days) | Growth<br>stage at<br>last date | Portion<br>analysed | DALA<br>(days) | Residues (mg/kg)    |
|------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------------------------|--------------------------------|------------|----------|-----------------------------------------|---------------|---------------------------------|---------------------|----------------|---------------------|
|                                                                                    |                                                 |                                                                   | kg as/hL                       | Water L/ha | kg as/ha |                                         |               |                                 |                     |                | Mefentrifluconazole |
| 2019/3001691,<br>2019/2076891<br>Sao Joaquim<br>Santa Catrina<br>Brazil<br>G172063 | Wine grape<br>FB 1236<br><br>Sauvignon<br>Blanc | 1. -.10.12<br>2. n.a.<br>3. 05.-26.03.18                          | 0.010                          | 1000       | 0.100    | 4<br>26.02.2018                         | 7             | BBCH<br>83                      | Fruits              | 7              | 0.75                |
|                                                                                    |                                                 |                                                                   |                                |            |          |                                         |               |                                 | Fruits              | 14             | 0.86                |
|                                                                                    |                                                 |                                                                   |                                |            |          |                                         |               |                                 | Fruits              | 21             | 0.65                |
|                                                                                    |                                                 |                                                                   |                                |            |          |                                         |               |                                 | Fruits              | 28             | 0.64                |
|                                                                                    |                                                 |                                                                   | -                              | -          | -        | -                                       | -             | -                               | Fruits              | 7              | <0.01               |
|                                                                                    |                                                 |                                                                   |                                |            |          |                                         |               |                                 | Fruits              | 14             | <0.01               |
|                                                                                    |                                                 |                                                                   |                                |            |          |                                         |               |                                 | Fruits              | 21             | <0.01               |
|                                                                                    |                                                 |                                                                   |                                |            |          |                                         |               |                                 | Fruits              | 28             | <0.01               |

The evaluation of new MRLs for mefentrifluconazole in or on various commodities

| Report No.<br>Location<br>trial No                                                         | Commodity/<br>Variety                             | Date of<br>1. Sowing or<br>planting<br>2. Flowering<br>3. Harvest | Application rate per treatment |            |          | No. of treat-<br>ments and<br>last date | RTI<br>(days) | Growth<br>stage at<br>last date | Portion<br>analysed                  | DALA<br>(days)      | Residues (mg/kg)                          |
|--------------------------------------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------------------|--------------------------------|------------|----------|-----------------------------------------|---------------|---------------------------------|--------------------------------------|---------------------|-------------------------------------------|
|                                                                                            |                                                   |                                                                   | kg as/hL                       | Water L/ha | kg as/ha |                                         |               |                                 |                                      |                     | Mefentrifluconazole                       |
| 2019/3001691,<br>2019/2076891<br>Bento Goncalves<br>Rio Grande do Sul<br>Brazil<br>G172064 | Table grape<br>FB 1235<br><br>Isabel              | 1. 2010<br>2. n.a.<br>3. 02.-23.02.18                             | 0.010                          | 1000       | 0.100    | 4<br>26.01.2018                         | 7             | BBCH<br>81                      | Fruits<br>Fruits<br>Fruits<br>Fruits | 7<br>14<br>21<br>28 | 0.80<br><u>0.38</u><br>0.11<br>0.13       |
|                                                                                            |                                                   |                                                                   | -                              | -          | -        | -                                       | -             | -                               | Fruits<br>Fruits<br>Fruits<br>Fruits | 7<br>14<br>21<br>28 | <0.01<br><0.01<br><0.01<br><0.01          |
| 2019/3001691,<br>2019/2076891<br>Antonio Prado<br>Rio Grande do Sul<br>Brazil<br>G172065   | Table grape<br>FB 1235<br><br>Isabel              | 1. 2002<br>2. n.a.<br>3. 02.-23.02.18                             | 0.010                          | 1000       | 0.100    | 4<br>26.01.2018                         | 7-8           | BBCH<br>85                      | Fruits<br>Fruits<br>Fruits<br>Fruits | 7<br>14<br>21<br>28 | 0.15*<br>0.061*<br>0.074*<br><u>0.12*</u> |
|                                                                                            |                                                   |                                                                   | -                              | -          | -        | -                                       | -             | -                               | Fruits<br>Fruits<br>Fruits<br>Fruits | 7<br>14<br>21<br>28 | <0.01*<br><0.01<br><0.01<br><0.01*        |
| 2019/3001691,<br>2019/2076891<br>Lago Grande<br>Pernambuco<br>Brazil<br>G172066            | Table grape<br>FB 1235<br><br>Italia<br>Melhorada | 1. 2014<br>2. n.a.<br>3. 15.03.-<br>05.04.18                      | 0.010                          | 1000       | 0.100    | 4<br>08.03.2018                         | 7-8           | BBCH<br>83                      | Fruits<br>Fruits<br>Fruits<br>Fruits | 7<br>14<br>21<br>28 | 0.41<br>0.38<br>0.39<br><u>0.40</u>       |
|                                                                                            |                                                   |                                                                   | -                              | -          | -        | -                                       | -             | -                               | Fruits<br>Fruits<br>Fruits<br>Fruits | 7<br>14<br>21<br>28 | <0.01<br><0.01<br><0.01<br><0.01          |
| 2019/3001691,<br>2019/2076891<br>Petrolinea<br>Pernambuco<br>Brazil<br>G172067             | Table grape<br>FB 1235<br><br>BRS-ISIS            | 1. -.07.2016<br>2. n.a.<br>3. 14.03.-<br>04.04.18                 | 0.010                          | 1000       | 0.100    | 4<br>07.03.2018                         | 7             | BBCH<br>83                      | Fruits<br>Fruits<br>Fruits<br>Fruits | 7<br>14<br>21<br>28 | 0.39<br><u>0.32</u><br>0.21<br>0.20       |
|                                                                                            |                                                   |                                                                   | -                              | -          | -        | -                                       | -             | -                               | Fruits<br>Fruits<br>Fruits<br>Fruits | 7<br>14<br>21<br>28 | <0.01<br><0.01<br><0.01<br><0.01          |

The evaluation of new MRLs for mefentrifluconazole in or on various commodities

| Report No.<br>Location<br>trial No                                       | Commodity/<br>Variety                              | Date of<br>1. Sowing or<br>planting<br>2. Flowering<br>3. Harvest | Application rate per treatment |            |          | No. of treat-<br>ments and<br>last date | RTI<br>(days) | Growth<br>stage at<br>last date | Portion<br>analysed                  | DALA<br>(days)      | Residues (mg/kg)                     |
|--------------------------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------------|--------------------------------|------------|----------|-----------------------------------------|---------------|---------------------------------|--------------------------------------|---------------------|--------------------------------------|
|                                                                          |                                                    |                                                                   | kg as/hL                       | Water L/ha | kg as/ha |                                         |               |                                 |                                      |                     | Mefentrifluconazole                  |
| 2019/3001691,<br>2019/2076891<br>Casa Nova<br>Bahia<br>Brazil<br>G172068 | Table grape<br>FB 1235<br><br>Italia<br>Melhorada  | 1. 2016<br>2. n.a.<br>3. 14.03.-<br>04.04.18                      | 0.010                          | 1000       | 0.100    | 4<br>07.03.2018                         | 7             | BBCH<br>81                      | Fruits<br>Fruits<br>Fruits<br>Fruits | 7<br>14<br>21<br>28 | 0.42<br><u>0.34</u><br>0.29<br>0.19  |
|                                                                          |                                                    |                                                                   | -                              | -          | -        | -                                       | -             | -                               | Fruits<br>Fruits<br>Fruits<br>Fruits | 7<br>14<br>21<br>28 | <0.01<br><0.01<br><0.01<br><0.01     |
| 2019/3001691,<br>2019/2076891<br>Machali<br>Chile<br>G172069             | Table grape<br>FB 1235<br><br>Crimson              | 1. 2005<br>2. n.a.<br>3. 08.02-<br>01.03.18                       | 0.010                          | 1000       | 0.100    | 4<br>01.02.2018                         | 7             | BBCH<br>79                      | Fruits<br>Fruits<br>Fruits<br>Fruits | 7<br>14<br>21<br>28 | 0.39<br><u>0.37</u><br>0.29<br>0.33  |
|                                                                          |                                                    |                                                                   | -                              | -          | -        | -                                       | -             | -                               | Fruits<br>Fruits<br>Fruits<br>Fruits | 7<br>14<br>21<br>28 | <0.01<br><0.01<br><0.01<br><0.01     |
| 2019/3001691,<br>2019/2076891<br>Nancagua<br>Chile<br>C172070            | Table grape<br>FB 1235<br><br>Thompson<br>Seedless | 1. 2004<br>2. n.a.<br>3. 08.02.-<br>01.03.18                      | 0.010                          | 1000       | 0.100    | 4<br>01.02.2018                         | 7             | BBCH<br>79                      | Fruits<br>Fruits<br>Fruits<br>Fruits | 7<br>14<br>21<br>28 | 0.82<br>0.36<br>0.38<br><u>0.40</u>  |
|                                                                          |                                                    |                                                                   | -                              | -          | -        | -                                       | -             | -                               | Fruits<br>Fruits<br>Fruits<br>Fruits | 7<br>14<br>21<br>28 | <0.01*<br><0.01*<br><0.01*<br><0.01* |

#### C.3.1.2.2.2 Study 2

|                        |                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reference:             | Residue analysis of 1,2,4-triazole, triazolylalanine, triazole acetic acid and triazole lactic acid in grape (fruits) after treatment with BAS 751 01 F, under field conditions in Brazil and Chile, [REDACTED] 2019, Study Code: 847566, BASF DocID: 2019/2076891                                                                                                                                           |
| Guideline(s):          | <p>NIT-DICLA-035 Revision 03 - Princípios das Boas Práticas de Laboratório - BPL (Principles of Good Laboratory Practice - GLP), Cgcre – November/2018.</p> <p>NIT-DICLA-035 Revision 04 - Princípios das Boas Práticas de Laboratório - BPL (Principles of Good Laboratory Practice - GLP) – BPL, Cgcre – October/2019</p> <p>OECD Series on Principles of Good Laboratory Practice. (revised in 1997).</p> |
| Deviations:            | No                                                                                                                                                                                                                                                                                                                                                                                                           |
| GLP:                   | Yes                                                                                                                                                                                                                                                                                                                                                                                                          |
| Validity of the study: | Validated                                                                                                                                                                                                                                                                                                                                                                                                    |

#### Materials and methods

Samples generated from study 847656 (see Section C.3.1.2.2.1) were analysed for TDMs in this study. Therefore the trial parameters are identical to those discussed previously for study 847656.

The maximum storage interval between harvest and analysis for TDMs was 412 days.

Data was considered in the TDM review (EFSA, 2018a) which demonstrates stability of TLA for this period of time in high acid crops when stored at  $\leq -18^{\circ}\text{C}$ . Data evaluated in a previous ER/RO (HSE, 2025a) demonstrates stability of 1,2,4-T, TA and TAA for this period of time in high acid crops when stored at  $\leq -18^{\circ}\text{C}$ .

Analysis for TDMs was performed using LC-DMS-MS/MS (method L0170/02) with an LOQ of 0.01 mg/kg per analyte.

#### Results and discussions

The analytical method for analysing residues of TDMs (L0170/02) was satisfactorily validated in accordance with SANCO 3029/99 rev. 4 on high oil commodities (UK, 2018a). The LOQ of the method is 0.01 mg/kg per analyte. The method was considered applicable to grapes as 8 procedural recoveries were provided across the 0.01 and 1.0 mg/kg fortification levels for all TDMs (mean recoveries 78.1 – 103%).

No residues of 1,2,4-T and TAA at or above the LOQ were detected in control samples for all trials. Residues of TA (up to 0.048 mg/kg) and TLA (up to 0.067 mg/kg) were found in control samples from some trials.

Residues of 1,2,4 -T, and TAA in grape (fruits) at 14 days after last application were <0.01 mg/kg.

Residues of TLA in grape (fruits) at 14 days after last application were between <0.01 – 0.067 mg/kg.

Residues of TA in grape (fruits) at 14 days after last application were between <0.01 - 0.064 mg/kg.

A summary of the residues trials is given in Table C.3.1.2.2.2-1.

**Table C.3.1.2.2.2-1 Residue trials on grapes**

|                              |                                                                                                                                                                                                                                                                    |                                  |                          |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------|
| Reference:                   | Residue analysis of 1,2,4-triazole, triazolylalanine, triazole acetic acid and triazole lactic acid in grape (fruits) after treatment with BAS 751 01 F, under field conditions in Brazil and Chile, [REDACTED] 2019, Study Code: 847566, BASF DocID: 2019/2076891 |                                  |                          |
| GLP:                         | Yes                                                                                                                                                                                                                                                                | Sample storage conditions:       | TDMs 412 days and -18°C  |
| Crop/crop group:             | Grapes/<br>Fruits and Fruiting Vegetables                                                                                                                                                                                                                          | Analytical method:               | L0170/02, validated      |
| Indoor/outdoor:              | Outdoor                                                                                                                                                                                                                                                            | Limit of Quantification (mg/kg): | 0.01                     |
| Formulation:                 | SC                                                                                                                                                                                                                                                                 | Residues calculated as:          | 1,2,4-T, TA, TAA and TLA |
| Content of active substance: | 200 g/L                                                                                                                                                                                                                                                            |                                  |                          |

| Report No.<br>Location<br>trial No                                                 | Commodity/<br>Variety                           | Date of<br>1. Sowing or<br>planting<br>2. Flowering<br>3. Harvest | Application rate per treatment |               |          | No. of treat-<br>ments and<br>last date | RTI<br>(days) | Growth<br>stage<br>at last<br>date | Portion<br>analysed | DALA<br>(days) | Residues (mg/kg) |       |       |       |
|------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------------------------|--------------------------------|---------------|----------|-----------------------------------------|---------------|------------------------------------|---------------------|----------------|------------------|-------|-------|-------|
|                                                                                    |                                                 |                                                                   | kg as/hL                       | Water<br>L/ha | kg as/ha |                                         |               |                                    |                     |                | 1,2,4-T          | TA    | TAA   | TLA   |
| 2019/3001691,<br>2019/2076891<br>Sao Joaquim<br>Santa Catrina<br>Brazil<br>G172063 | Wine grape<br>FB 1236<br><br>Sauvignon<br>Blanc | 1. -.10.12<br>2. n.a.<br>3. 05.-<br>26.03.18                      | 0.010                          | 1000          | 0.100    | 4<br>26.02.2018                         | 7             | BBCH<br>83                         | Fruits              | 7              | <0.01            | 0.054 | <0.01 | 0.054 |
|                                                                                    |                                                 |                                                                   |                                |               |          |                                         |               |                                    | Fruits              | 14             | <0.01            | 0.048 | <0.01 | 0.051 |
|                                                                                    |                                                 |                                                                   |                                |               |          |                                         |               |                                    | Fruits              | 21             | <0.01            | 0.064 | <0.01 | 0.064 |
|                                                                                    |                                                 |                                                                   |                                |               |          |                                         |               |                                    | Fruits              | 28             | <0.01            | 0.058 | <0.01 | 0.061 |
|                                                                                    |                                                 |                                                                   | -                              | -             | -        | -                                       | -             | -                                  | Fruits              | 7              | <0.01            | 0.040 | <0.01 | 0.055 |
|                                                                                    |                                                 |                                                                   |                                |               |          |                                         |               |                                    | Fruits              | 14             | <0.01            | 0.033 | <0.01 | 0.039 |
|                                                                                    |                                                 |                                                                   |                                |               |          |                                         |               |                                    | Fruits              | 21             | <0.01            | 0.021 | <0.01 | 0.027 |
|                                                                                    |                                                 |                                                                   |                                |               |          |                                         |               |                                    | Fruits              | 28             | <0.01            | 0.048 | <0.01 | 0.067 |

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| Report No.<br>Location<br>trial No                                                            | Commodity/<br>Variety                             | Date of<br>1. Sowing or<br>planting<br>2. Flowering<br>3. Harvest | Application rate per treatment |               |          | No. of treat-<br>ments and<br>last date | RTI<br>(days) | Growth<br>stage<br>at last<br>date | Portion<br>analysed | DALA<br>(days) | Residues (mg/kg) |       |       |       |
|-----------------------------------------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------------------|--------------------------------|---------------|----------|-----------------------------------------|---------------|------------------------------------|---------------------|----------------|------------------|-------|-------|-------|
|                                                                                               |                                                   |                                                                   | kg as/hL                       | Water<br>L/ha | kg as/ha |                                         |               |                                    |                     |                | 1,2,4-T          | TA    | TAA   | TLA   |
| 2019/3001691,<br>2019/2076891<br>Bento Goncalves<br>Rio Grande do<br>Sul<br>Brazil<br>G172064 | Table grape<br>FB 1235<br><br>Isabel              | 1. 2010<br>2. n.a.<br>3. 02.-<br>23.02.18                         | 0.010                          | 1000          | 0.100    | 4<br>26.01.2018                         | 7             | BBCH<br>81                         | Fruits              | 7              | 0.018            | <0.01 | <0.01 | <0.01 |
|                                                                                               |                                                   |                                                                   |                                |               |          |                                         |               |                                    | Fruits              | 14             | <0.01            | <0.01 | <0.01 | <0.01 |
|                                                                                               |                                                   |                                                                   |                                |               |          |                                         |               |                                    | Fruits              | 21             | <0.01            | <0.01 | <0.01 | <0.01 |
|                                                                                               |                                                   |                                                                   |                                |               |          |                                         |               |                                    | Fruits              | 28             | <0.01            | <0.01 | <0.01 | <0.01 |
|                                                                                               |                                                   |                                                                   | -                              | -             | -        | -                                       | -             | -                                  | Fruits              | 7              | <0.01            | <0.01 | <0.01 | <0.01 |
|                                                                                               |                                                   |                                                                   |                                |               |          |                                         |               |                                    | Fruits              | 14             | <0.01            | <0.01 | <0.01 | <0.01 |
|                                                                                               |                                                   |                                                                   |                                |               |          |                                         |               |                                    | Fruits              | 21             | <0.01            | <0.01 | <0.01 | <0.01 |
|                                                                                               |                                                   |                                                                   |                                |               |          |                                         |               |                                    | Fruits              | 28             | <0.01            | <0.01 | <0.01 | <0.01 |
| 2019/3001691,<br>2019/2076891<br>Antonio Prado<br>Rio Grande do<br>Sul<br>Brazil<br>G172065   | Table grape<br>FB 1235<br><br>Isabel              | 1. 2002<br>2. n.a.<br>3. 02.-<br>23.02.18                         | 0.010                          | 1000          | 0.100    | 4<br>26.01.2018                         | 7-8           | BBCH<br>85                         | Fruits              | 7              | <0.01            | <0.01 | <0.01 | <0.01 |
|                                                                                               |                                                   |                                                                   |                                |               |          |                                         |               |                                    | Fruits              | 14             | <0.01            | <0.01 | <0.01 | <0.01 |
|                                                                                               |                                                   |                                                                   |                                |               |          |                                         |               |                                    | Fruits              | 21             | <0.01            | <0.01 | <0.01 | <0.01 |
|                                                                                               |                                                   |                                                                   |                                |               |          |                                         |               |                                    | Fruits              | 28             | <0.01            | <0.01 | <0.01 | <0.01 |
|                                                                                               |                                                   |                                                                   | -                              | -             | -        | -                                       | -             | -                                  | Fruits              | 7              | <0.01            | <0.01 | <0.01 | <0.01 |
|                                                                                               |                                                   |                                                                   |                                |               |          |                                         |               |                                    | Fruits              | 14             | <0.01            | <0.01 | <0.01 | <0.01 |
|                                                                                               |                                                   |                                                                   |                                |               |          |                                         |               |                                    | Fruits              | 21             | <0.01            | <0.01 | <0.01 | <0.01 |
|                                                                                               |                                                   |                                                                   |                                |               |          |                                         |               |                                    | Fruits              | 28             | <0.01            | <0.01 | <0.01 | <0.01 |
| 2019/3001691,<br>2019/2076891<br>Lago Grande<br>Pernambuco<br>Brazil<br>G172066               | Table grape<br>FB 1235<br><br>Italia<br>Melhorada | 1. 2014<br>2. n.a.<br>3. 15.03.-<br>05.04.18                      | 0.010                          | 1000          | 0.100    | 4<br>08.03.2018                         | 7-8           | BBCH<br>83                         | Fruits              | 7              | <0.01            | <0.01 | <0.01 | <0.01 |
|                                                                                               |                                                   |                                                                   |                                |               |          |                                         |               |                                    | Fruits              | 14             | <0.01            | <0.01 | <0.01 | <0.01 |
|                                                                                               |                                                   |                                                                   |                                |               |          |                                         |               |                                    | Fruits              | 21             | <0.01            | <0.01 | <0.01 | <0.01 |
|                                                                                               |                                                   |                                                                   |                                |               |          |                                         |               |                                    | Fruits              | 28             | <0.01            | <0.01 | <0.01 | 0.010 |
|                                                                                               |                                                   |                                                                   | -                              | -             | -        | -                                       | -             | -                                  | Fruits              | 7              | <0.01            | <0.01 | <0.01 | <0.01 |
|                                                                                               |                                                   |                                                                   |                                |               |          |                                         |               |                                    | Fruits              | 14             | <0.01            | <0.01 | <0.01 | <0.01 |
|                                                                                               |                                                   |                                                                   |                                |               |          |                                         |               |                                    | Fruits              | 21             | <0.01            | <0.01 | <0.01 | <0.01 |
|                                                                                               |                                                   |                                                                   |                                |               |          |                                         |               |                                    | Fruits              | 28             | <0.01            | <0.01 | <0.01 | <0.01 |
| 2019/3001691,<br>2019/2076891<br>Petrolina<br>Pernambuco<br>Brazil                            | Table grape<br>FB 1235<br><br>BRS-ISIS            | 1. -.07.2016<br>2. n.a.<br>3. 14.03.-<br>04.04.18                 | 0.010                          | 1000          | 0.100    | 4<br>07.03.2018                         | 7             | BBCH<br>83                         | Fruits              | 7              | <0.01            | 0.020 | <0.01 | <0.01 |
|                                                                                               |                                                   |                                                                   |                                |               |          |                                         |               |                                    | Fruits              | 14             | <0.01            | 0.016 | <0.01 | <0.01 |
|                                                                                               |                                                   |                                                                   |                                |               |          |                                         |               |                                    | Fruits              | 21             | <0.01            | 0.016 | <0.01 | <0.01 |
|                                                                                               |                                                   |                                                                   |                                |               |          |                                         |               |                                    | Fruits              | 28             | <0.01            | 0.023 | <0.01 | 0.012 |
|                                                                                               |                                                   |                                                                   |                                |               |          |                                         |               |                                    |                     |                |                  |       |       |       |
|                                                                                               |                                                   |                                                                   |                                |               |          |                                         |               |                                    |                     |                |                  |       |       |       |
|                                                                                               |                                                   |                                                                   |                                |               |          |                                         |               |                                    |                     |                |                  |       |       |       |
|                                                                                               |                                                   |                                                                   |                                |               |          |                                         |               |                                    |                     |                |                  |       |       |       |

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| Report No.<br>Location<br>trial No                                       | Commodity/<br>Variety                              | Date of<br>1. Sowing or<br>planting<br>2. Flowering<br>3. Harvest | Application rate per treatment |               |          | No. of treat-<br>ments and<br>last date | RTI<br>(days) | Growth<br>stage<br>at last<br>date | Portion<br>analysed | DALA<br>(days) | Residues (mg/kg) |                 |                 |              |
|--------------------------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------------|--------------------------------|---------------|----------|-----------------------------------------|---------------|------------------------------------|---------------------|----------------|------------------|-----------------|-----------------|--------------|
|                                                                          |                                                    |                                                                   | kg as/hL                       | Water<br>L/ha | kg as/ha |                                         |               |                                    |                     |                | 1,2,4-T          | TA              | TAA             | TLA          |
| G172067                                                                  |                                                    |                                                                   | -                              | -             | -        | -                                       | -             | -                                  | Fruits              | 7              | <0.01            | <0.01           | <0.01           | <0.01        |
|                                                                          |                                                    |                                                                   |                                |               |          |                                         |               |                                    | Fruits              | 14             | <0.01            | <0.01           | <0.01           | <0.01        |
|                                                                          |                                                    |                                                                   |                                |               |          |                                         |               |                                    | Fruits              | 21             | <0.01            | <0.01           | <0.01           | <0.01        |
|                                                                          |                                                    |                                                                   |                                |               |          |                                         |               |                                    | Fruits              | 28             | <0.01            | <0.01           | <0.01           | <u>0.015</u> |
| 2019/3001691,<br>2019/2076891<br>Casa Nova<br>Bahia<br>Brazil<br>G172068 | Table grape<br>FB 1235<br><br>Italia<br>Melhorada  | 1. 2016<br>2. n.a.<br>3. 14.03.-<br>04.04.18                      | 0.010                          | 1000          | 0.100    | 4<br>07.03.2018                         | 7             | BBCH<br>81                         | Fruits              | 7              | <0.01            | <0.01           | <0.01           | 0.010        |
|                                                                          |                                                    |                                                                   |                                |               |          |                                         |               |                                    | Fruits              | 14             | <u>&lt;0.01</u>  | 0.011           | <u>&lt;0.01</u> | 0.010        |
|                                                                          |                                                    |                                                                   |                                |               |          |                                         |               |                                    | Fruits              | 21             | <0.01            | 0.012           | <0.01           | <0.01        |
|                                                                          |                                                    |                                                                   |                                |               |          |                                         |               |                                    | Fruits              | 28             | <0.01            | <u>0.014</u>    | <0.01           | <0.01        |
|                                                                          |                                                    |                                                                   | -                              | -             | -        | -                                       | -             | -                                  | Fruits              | 7              | <0.01            | <0.01           | <0.01           | 0.016        |
|                                                                          |                                                    |                                                                   |                                |               |          |                                         |               |                                    | Fruits              | 14             | <0.01            | <0.01           | <0.01           | 0.014        |
|                                                                          |                                                    |                                                                   |                                |               |          |                                         |               |                                    | Fruits              | 21             | <0.01            | <0.01           | <0.01           | 0.015        |
|                                                                          |                                                    |                                                                   |                                |               |          |                                         |               |                                    | Fruits              | 28             | <0.01            | <0.01           | <0.01           | <u>0.016</u> |
| 2019/3001691,<br>2019/2076891<br>Machali<br>Chile<br>G172069             | Table grape<br>FB 1235<br><br>Crimson              | 1. 2005<br>2. n.a.<br>3. 08.02.-<br>01.03.18                      | 0.010                          | 1000          | 0.100    | 4<br>01.02.2018                         | 7             | BBCH<br>79                         | Fruits              | 7              | <0.01            | 0.031           | <0.01           | 0.044        |
|                                                                          |                                                    |                                                                   |                                |               |          |                                         |               |                                    | Fruits              | 14             | <u>&lt;0.01</u>  | <u>0.043</u>    | <u>&lt;0.01</u> | 0.046        |
|                                                                          |                                                    |                                                                   |                                |               |          |                                         |               |                                    | Fruits              | 21             | <0.01            | 0.040           | <0.01           | <u>0.058</u> |
|                                                                          |                                                    |                                                                   |                                |               |          |                                         |               |                                    | Fruits              | 28             | <0.01            | 0.038           | <0.01           | 0.051        |
|                                                                          |                                                    |                                                                   | -                              | -             | -        | -                                       | -             | -                                  | Fruits              | 7              | <0.01            | 0.024           | <0.01           | 0.034        |
|                                                                          |                                                    |                                                                   |                                |               |          |                                         |               |                                    | Fruits              | 14             | <0.01            | 0.030           | <0.01           | 0.039        |
|                                                                          |                                                    |                                                                   |                                |               |          |                                         |               |                                    | Fruits              | 21             | <0.01            | 0.025           | <0.01           | 0.038        |
|                                                                          |                                                    |                                                                   |                                |               |          |                                         |               |                                    | Fruits              | 28             | <0.01            | 0.024           | <0.01           | 0.043        |
| 2019/3001691,<br>2019/2076891<br>Nancagua<br>Chile<br>C172070            | Table grape<br>FB 1235<br><br>Thompson<br>Seedless | 1. 2004<br>2. n.a.<br>3. 08.02.-<br>01.03.18                      | 0.010                          | 1000          | 0.100    | 4<br>01.02.2018                         | 7             | BBCH<br>79                         | Fruits              | 7              | <0.01            | <0.01           | <0.01           | 0.011        |
|                                                                          |                                                    |                                                                   |                                |               |          |                                         |               |                                    | Fruits              | 14             | <u>&lt;0.01</u>  | <u>&lt;0.01</u> | <u>&lt;0.01</u> | <0.01        |
|                                                                          |                                                    |                                                                   |                                |               |          |                                         |               |                                    | Fruits              | 21             | <0.01            | <0.01           | <0.01           | 0.011        |
|                                                                          |                                                    |                                                                   |                                |               |          |                                         |               |                                    | Fruits              | 28             | <0.01            | <0.01           | <0.01           | <u>0.013</u> |
|                                                                          |                                                    |                                                                   | -                              | -             | -        | -                                       | -             | -                                  | Fruits              | 7              | <0.01            | <0.01           | <0.01           | <0.01        |
|                                                                          |                                                    |                                                                   |                                |               |          |                                         |               |                                    | Fruits              | 14             | <0.01            | <0.01           | <0.01           | <0.01        |
|                                                                          |                                                    |                                                                   |                                |               |          |                                         |               |                                    | Fruits              | 21             | <0.01            | <0.01           | <0.01           | <0.01        |
|                                                                          |                                                    |                                                                   |                                |               |          |                                         |               |                                    | Fruits              | 28             | <0.01            | <0.01           | <0.01           | <0.01        |

### C.3.1.2.3 Olives

#### C.3.1.2.3.1 Study 1

|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reference:    | Study on the residue behaviour of Mefentrifluconazole (BAS 750 F) on table and oil olives after treatment with BAS 750 05 F under field conditions in Southern Europe, season 2019, [REDACTED], 2021, Study code: 19/19/PF, BASF Study ID: 877930, BASF Doc ID:2019/2075101,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Guideline(s): | <p>Regulation (EC) no. 1107/2009 of the European Parliament and of the Council of 21 October 2009 concerning the placing of plant protection products on the market and repealing Council Directives 79/117/EEC and 91/414/EEC.</p> <p>European Community Guidelines 7029/VI/95 – Rev. 5, 22/07/97: Appendix B- General Recommendations for the design, preparation and realization of residue trials.</p> <p>OECD 509 – OECD Guideline for the testing of Chemicals Crop Field Trials 7th September 2009.</p> <p>European Community Guideline SANCO 7525/VI/95 - rev.10.3, June 2017: Comparability, extrapolation, group tolerances and data requirements for setting MRLs.</p> <p>Directive 2004/10/EC of the European Parliament and of the Council of 11th February 2004 on the harmonisation of laws, regulations and administrative provisions relating to the application of the principles of good laboratory practice and the verification of their applications for tests on chemical substances.</p> <p>OECD Principles of Good Laboratory Practice and Compliance Monitoring Number 1. 'OECD Principles on Good Laboratory Practice'. ENV/MC/CHEM(98)17.</p> <p>OECD Principles of Good Laboratory Practice and Compliance Monitoring Number 4. 'Quality Assurance and GLP'. ENV/JM/MONO(99)20.</p> <p>OECD Principles of Good Laboratory Practice and Compliance Monitoring Number 6 (Revised). 'The</p> |

Application of the GLP Principles to field studies'.  
ENV/JM/MONO (99)22.

OECD Principles of Good Laboratory Practice and  
Compliance Monitoring Number 13. Consensus Document  
of the Working Group on Good Laboratory Practice 'The  
application of OECD Principles of GLP to the Organisation  
and Management of Multi-site studies'.  
ENV/JM/MONO(2002)/9.

Spanish R.D. 1369/2000 on 19th of July, whereby the  
Principles of Good Laboratory Practices and their  
application to the conduction of non-clinical studies on  
chemical substances and products are established

|                        |            |
|------------------------|------------|
| Deviations:            | No         |
| GLP:                   | Yes        |
| Validity of the study: | Acceptable |

### **Materials and methods**

Four trials on olives were conducted in Spain, Greece and Italy using 'BAS 750 05 F', an SC formulation containing 75 g/L mefentrifluconazole, in the 2019 growing season.

The trials were undertaken across two plots: one with table olives and the other with olives for oil production.

'BAS 750 05 F' was applied as a foliar spray at a nominal rate of 2 x 0.15 kg/ha mefentrifluconazole (actual: 2 x 0.143 - 0.159) in 957 – 1058 L/ha of water, resulting in a spray concentration of 0.015 kg a.s./hL. Two applications were made with a 10-11 day RTI and with last application at BBCH 79-80 (table olives) or BBCH 81-85 (olives for oil production) and a 21-22 day PHI.

The applications support the notified critical GAP (2 x 0.15 kg a.s./ha, 21 day PHI, RTI 10 days BBCH 15-85).

As olives are a tall crop, residues may be driven by spray concentration due to direct application to the plant and the fact that the spray is often applied to run off. It is noted that the maximum spray concentration of the notified cGAP is 0.015 kg/hL (water volume: 1000 L/ha). The spray concentration used in the trials was 0.015 kg/hL (water volume: approx. 1000 L/ha). As the spray concentration in the trials is in line with the cGAP, no further consideration is required.

Weather data were reported for the trials and no exceptional events were noted. The trials were decline trials, samples of olive fruits were taken at 0, 14, 21/22 and 27/28 days after last application. Samples containing at least 1 kg were collected from both treated and control plots. Samples were frozen within 24 hours, and stored at  $\leq -18$  °C until analysis. The maximum storage interval between harvest and analysis for mefentrifluconazole was 185 days for table olives and 140 days for olives for oil production. Data was considered in the DAR which demonstrates stability of mefentrifluconazole for this period of time in high oil crops when stored at  $\leq -18$  °C (EFSA, 2018). The maximum storage interval between harvest and analysis for TDMs was 263 days for table olives and 182 days for olives for oil production. Data was considered in the TDM Review (EFSA, 2018a) which demonstrates stability of TDMs for this period of time in high oil crops when stored at  $\leq -18$  °C.

Analysis for mefentrifluconazole was performed using LC-MS/MS (method L0076/09) with an LOQ of 0.01 mg/kg. Analysis for TDMs was performed using LC-DMS-MS/MS (method L0170/02) with an LOQ of 0.01 mg/kg per analyte.

## Results and Discussion

The analytical method for analysing residues of mefentrifluconazole (L0076/09) was satisfactorily validated in accordance with SANCO 3029/99 rev. 4 on high oil commodities (UK, 2018b). The LOQ of the method is 0.01 mg/kg. The method was considered applicable to table olives as 7 procedural recoveries for table olives (mean recovery of 84.4%) were presented across the 0.010, 0.10 and 10 mg/kg fortification levels, and olives for oil production as 9 procedural recoveries for olives for oil production (mean recovery of 80.6%) were presented across the 0.010 and 10 mg/kg fortification levels.

The analytical method for analysing residues of TDMs (L0170/02) was satisfactorily validated in accordance with SANCO 3029/99 rev. 4 on high oil commodities (UK, 2018a). The LOQ of the method is 0.01 mg/kg per analyte. The method was considered applicable to table olives as at least 23 procedural recoveries for table olives (mean recovery of 88.3 – 98.6%) were presented across the 0.010, 0.10, and 1.0 mg/kg fortification levels for each TDM. The method was considered applicable to olives for oil production as at least 9 procedural recoveries for olives for oil production (mean recovery of 87.3 – 97.4%) were presented across the 0.010, 0.10, and 1.0 mg/kg fortification levels for each TDM.

No residues of mefentrifluconazole or TAA at or above the LOQ were detected in control samples for all trials. Residues of 1,2,4-T (up to 0.013 mg/kg) and TLA (up to 0.018 mg/kg) were found in control samples from some trials. Residues of TA (up to 0.8 mg/kg) were found in all control samples from all trials.

Residues of mefentrifluconazole in table olives at 21 days after last application were between 0.34 - 0.88 mg/kg.

Residues of mefentrifluconazole in olives for oil production at 21 days after last application were between 0.20 - 1.2 mg/kg.

Residues of 1,2,4-T in table olives at 21 days after last application were between <0.01 – 0.013 mg/kg.

Residues of 1,2,4-T in olives for oil production at 21 days after last application were <0.01 mg/kg.

Residues of TAA in table and olives for oil production at 21 days after last application were <0.01 mg/kg.

Residues of TLA in table olives at 21 days after last application were between <0.01 – 0.021 mg/kg.

Residues of TLA in olives for oil production at 21 days after last application were between <0.01 – 0.015 mg/kg.

Residues of TA in table olives at 21 days after last application were between 0.25 – 0.61 mg/kg.

Residues of TA in olives for oil production at 21 days after last application were between 0.58 – 0.80 mg/kg.

A summary of the residues trials is given in Table C.3.1.2.3.1-1.

**Table C.3.1.2.3.1-1 Residue trials on olives**

|                              |                                                                                                                                                                                                                                                                             |                                  |                                                           |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------------------------------------------|
| Reference:                   | Study on the residue behaviour of Mefentrifluconazole (BAS 750 F) on table and oil olives after treatment with BAS 750 05 F under field conditions in Southern Europe, season 2019, [REDACTED] 2021, Study code: 19/19/PF, BASF Study ID: 877930, BASF Doc ID:2019/2075101, |                                  |                                                           |
| GLP:                         | Yes                                                                                                                                                                                                                                                                         | Sample storage conditions:       | Mefentrifluconazole 185 days, -18°C, TDMs: 263 days, 18°C |
| Crop/crop group:             | Olives/<br>Oil Fruits                                                                                                                                                                                                                                                       | Analytical method:               | L0076/09 and L0170/02, validated                          |
| Indoor/outdoor:              | Outdoor                                                                                                                                                                                                                                                                     | Limit of Quantification (mg/kg): | 0.01                                                      |
| Formulation:                 | SC                                                                                                                                                                                                                                                                          | Residues calculated as:          | Mefentrifluconazole, 1,2,4-T, TA, TAA and TLA             |
| Content of active substance: | 75 g/L                                                                                                                                                                                                                                                                      |                                  |                                                           |

| Report No.<br>Location<br>(EU-region)<br>trial No                                        | Commodity/<br>Variety                    | Date of<br>1. Sowing or<br>planting<br>2. Flowering<br>3. Harvest       | Application rate per<br>treatment |               |                | No. of<br>treat-<br>ments<br>and last<br>date | RTI<br>(days) | Growth<br>stage<br>at last<br>date | Portion<br>analysed | DALA<br>(days) | Residues (mg/kg) |                  |             |                  |                  |
|------------------------------------------------------------------------------------------|------------------------------------------|-------------------------------------------------------------------------|-----------------------------------|---------------|----------------|-----------------------------------------------|---------------|------------------------------------|---------------------|----------------|------------------|------------------|-------------|------------------|------------------|
|                                                                                          |                                          |                                                                         | kg as/hL                          | Water<br>L/ha | kg<br>as/ha    |                                               |               |                                    |                     |                | BAS<br>750 F     | 1,2,4-<br>T      | TA          | TAA              | TLA              |
| 2019/2075101<br>14548 Montalbán<br>Spain<br>(S-EU)<br>L190623<br>Plot 2 (table<br>olive) | Olive<br>FT 0305<br>OLVEU<br>Hojiblanca  | 1. 2000<br>2. 07.05.2019-<br>23.05.2019<br>3. 30.09.2019-<br>15.10.2019 | 0.015<br>0.015                    | 1016<br>1058  | 0.152<br>0.159 | 2<br>10.09.2019                               | 11            | BBCH<br>75                         | Fruit               | 0              | 0.72             | <0.010           | 0.57        | <0.010           | <0.010           |
|                                                                                          |                                          |                                                                         |                                   |               |                |                                               |               |                                    | Fruit               | 14             | 0.58             | <0.010           | 0.48        | <0.010           | <0.010           |
|                                                                                          |                                          |                                                                         |                                   |               |                |                                               |               |                                    | Fruit               | 21             | <u>0.48</u>      | <0.010           | <u>0.44</u> | <u>&lt;0.010</u> | <u>&lt;0.010</u> |
|                                                                                          |                                          |                                                                         |                                   |               |                |                                               |               |                                    | Fruit               | 28             | 0.44             | <0.010           | 0.045       | <0.010           | <0.010           |
|                                                                                          |                                          |                                                                         | -                                 | -             | -              | -                                             | -             | -                                  | Fruit               | 0              | <0.010           | <0.010           | 0.34        | <0.010           | <0.010           |
|                                                                                          |                                          |                                                                         |                                   |               |                |                                               |               |                                    | Fruit               | 14             | <0.010           | <0.010           | 0.50        | <0.010           | <0.010           |
|                                                                                          |                                          |                                                                         |                                   |               |                |                                               |               |                                    | Fruit               | 21             | <0.010           | <u>0.013</u>     | 0.33        | <0.010           | <0.010           |
|                                                                                          |                                          |                                                                         |                                   |               |                |                                               |               |                                    | Fruit               | 28             | <0.010           | <0.010           | 0.076       | <0.010           | <0.010           |
| 2019/2075101<br>41410 Carmona<br>Spain<br>(S-EU)<br>L190624<br>Plot 2 (table olive)      | Olive<br>FT 0305<br>OLVEU<br>Manzanilla  | 1. 1998<br>2. 15.04.2019-<br>28.04.2019<br>3. 09.09.2019-<br>16.09.2019 | 0.015<br>0.015                    | 1039<br>1013  | 0.156<br>0.152 | 2<br>19.08.2019                               | 10            | BBCH<br>75                         | Fruit               | 0              | 1.0              | <0.010           | 0.32        | <0.010           | 0.014            |
|                                                                                          |                                          |                                                                         |                                   |               |                |                                               |               |                                    | Fruit               | 14             | 0.96             | <0.010           | 0.40        | <0.010           | 0.016            |
|                                                                                          |                                          |                                                                         |                                   |               |                |                                               |               |                                    | Fruit               | 21             | <u>0.57</u>      | <0.010           | 0.39        | <u>&lt;0.010</u> | 0.016            |
|                                                                                          |                                          |                                                                         |                                   |               |                |                                               |               |                                    | Fruit               | 28             | 0.38             | 0.010            | 0.15        | <0.010           | <u>0.021</u>     |
|                                                                                          |                                          |                                                                         | -                                 | -             | -              | -                                             | -             | -                                  | Fruit               | 0              | <0.010           | <0.010           | 0.23        | <0.010           | 0.012            |
|                                                                                          |                                          |                                                                         |                                   |               |                |                                               |               |                                    | Fruit               | 14             | <0.010           | <0.010           | 0.51        | <0.010           | <0.010           |
|                                                                                          |                                          |                                                                         |                                   |               |                |                                               |               |                                    | Fruit               | 21             | <0.010           | <0.010           | 0.21        | <0.010           | 0.010            |
|                                                                                          |                                          |                                                                         |                                   |               |                |                                               |               |                                    | Fruit               | 28             | <0.010           | <u>0.011</u>     | <u>0.60</u> | <0.010           | 0.018            |
| 2019/2075101<br>63085 Nea Skioni<br>Greece<br>(S-EU)<br>L190625<br>Plot 2 (table olive)  | Olive<br>FT 0305<br>OLVEU<br>Chalkidikis | 1. 1996<br>2. 25.05.2019-<br>10.06.2019<br>3. 20.09.2019-<br>30.09.2019 | 0.015<br>0.015                    | 993<br>1004   | 0.149<br>0.151 | 2<br>30.08.2019                               | 10            | BBCH<br>77                         | Fruit               | 0              | 1.2              | <0.010           | 0.16        | <0.010           | <0.010           |
|                                                                                          |                                          |                                                                         |                                   |               |                |                                               |               |                                    | Fruit               | 14             | 1.1              | <0.010           | 0.14        | <0.010           | <0.010           |
|                                                                                          |                                          |                                                                         |                                   |               |                |                                               |               |                                    | Fruit               | 21             | <u>0.88</u>      | <u>&lt;0.010</u> | 0.062       | <u>&lt;0.010</u> | <u>&lt;0.010</u> |
|                                                                                          |                                          |                                                                         |                                   |               |                |                                               |               |                                    | Fruit               | 28             | 0.72             | <0.010           | <u>0.25</u> | <0.010           | <0.010           |
|                                                                                          |                                          |                                                                         | -                                 | -             | -              | -                                             | -             | -                                  | Fruit               | 0              | <0.010           | <0.010           | 0.022       | <0.010           | <0.010           |
|                                                                                          |                                          |                                                                         |                                   |               |                |                                               |               |                                    | Fruit               | 14             | <0.010           | <0.010           | 0.044       | <0.010           | <0.010           |
|                                                                                          |                                          |                                                                         |                                   |               |                |                                               |               |                                    | Fruit               | 21             | <0.010           | <0.010           | 0.035       | <0.010           | <0.010           |
|                                                                                          |                                          |                                                                         |                                   |               |                |                                               |               |                                    | Fruit               | 28             | <0.010           | <0.010           | 0.17        | <0.010           | <0.010           |

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| Report No.<br>Location<br>(EU-region)<br>trial No                                           | Commodity/<br>Variety                  | Date of<br>1. Sowing or<br>planting<br>2. Flowering<br>3. Harvest | Application rate per<br>treatment |               |                | No. of<br>treat-<br>ments<br>and last<br>date | RTI<br>(days) | Growth<br>stage<br>at last<br>date | Portion<br>analysed | DALA<br>(days) | Residues (mg/kg) |                  |             |                  |                  |
|---------------------------------------------------------------------------------------------|----------------------------------------|-------------------------------------------------------------------|-----------------------------------|---------------|----------------|-----------------------------------------------|---------------|------------------------------------|---------------------|----------------|------------------|------------------|-------------|------------------|------------------|
|                                                                                             |                                        |                                                                   | kg as/hL                          | Water<br>L/ha | kg<br>as/ha    |                                               |               |                                    |                     |                | BAS<br>750 F     | 1,2,4-<br>T      | TA          | TAA              | TLA              |
| 2019/2075101<br>94010<br>Calascibetta<br>Italy<br>(S-EU)<br>L190626<br>Plot 2 (table olive) | Olive<br>FT 0305<br>OLVEU<br>Giarraffa | 1. 1985<br>2. 05.05.2019-<br>25.05.2019<br>3. 24.10.2019          | 0.015<br>0.015                    | 1006<br>1003  | 0.151<br>0.150 | 2<br>03.10.2019                               | 10            | BBCH<br>80                         | Fruit               | 0              | 0.53             | <0.010           | 0.063       | <0.010           | <0.010           |
|                                                                                             |                                        |                                                                   |                                   |               |                |                                               |               |                                    | Fruit               | 14             | 0.33             | <0.010           | 0.023       | <0.010           | <0.010           |
|                                                                                             |                                        |                                                                   |                                   |               |                |                                               |               |                                    | Fruit               | 21             | <u>0.34</u>      | <u>&lt;0.010</u> | <u>0.61</u> | <u>&lt;0.010</u> | <u>&lt;0.010</u> |
|                                                                                             |                                        |                                                                   |                                   |               |                |                                               |               |                                    | Fruit               | 27             | 0.24             | <0.010           | <0.010      | <0.010           | <0.010           |
|                                                                                             |                                        |                                                                   | -                                 | -             | -              | -                                             | -             | -                                  | Fruit               | 0              | <0.010           | <0.010           | 0.22        | <0.010           | <0.010           |
|                                                                                             |                                        |                                                                   |                                   |               |                |                                               |               |                                    | Fruit               | 14             | <0.010           | <0.010           | 0.44        | <0.010           | <0.010           |
|                                                                                             |                                        |                                                                   |                                   |               |                |                                               |               |                                    | Fruit               | 21             | <0.010           | <0.010           | 0.49        | <0.010           | <0.010           |
|                                                                                             |                                        |                                                                   |                                   |               |                |                                               |               |                                    | Fruit               | 27             | <0.010           | <0.010           | <0.010      | <0.010           | <0.010           |

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| Report No.<br>Location<br>(EU-region)<br>trial No                                                        | Commodity/<br>Variety                    | Date of<br>1. Sowing or<br>planting<br>2. Flowering<br>3. Harvest       | Application rate per<br>treatment |               |                | No. of<br>treat-<br>ments<br>and last<br>date | RTI<br>(days) | Growth<br>stage<br>at last<br>date | Portion<br>analysed | DALA<br>(days) | Residues (mg/kg) |             |        |        |        |
|----------------------------------------------------------------------------------------------------------|------------------------------------------|-------------------------------------------------------------------------|-----------------------------------|---------------|----------------|-----------------------------------------------|---------------|------------------------------------|---------------------|----------------|------------------|-------------|--------|--------|--------|
|                                                                                                          |                                          |                                                                         | kg as/hL                          | Water<br>L/ha | kg<br>as/ha    |                                               |               |                                    |                     |                | BAS<br>750 F     | 1,2,4-<br>T | TA     | TAA    | TLA    |
| 2019/2075101<br>14548 Montalbán<br>Spain<br>(S-EU)<br>L190623<br>Plot 3 (olives for<br>oil production)   | Olive<br>FT 0305<br>OLVEU<br>Hojiblanca  | 1. 2000<br>2. 07.05.2019-<br>23.05.2019<br>3. 09.12.2019-<br>27.12.2019 | 0.015<br>0.015                    | 957<br>1004   | 0.143<br>0.151 | 2<br>18.11.2019                               | 10            | BBCH<br>85                         | Fruit               | 0              | 0.73             | <0.010      | 0.15   | <0.010 | <0.010 |
|                                                                                                          |                                          |                                                                         |                                   |               |                |                                               |               |                                    | Fruit               | 14             | 0.20             | <0.010      | 0.17   | <0.010 | <0.010 |
|                                                                                                          |                                          |                                                                         |                                   |               |                |                                               |               |                                    | Fruit               | 22             | 0.18             | <0.010      | 0.44   | <0.010 | <0.010 |
|                                                                                                          |                                          |                                                                         |                                   |               |                |                                               |               |                                    | Fruit               | 28             | 0.20             | <0.010      | 0.10   | <0.010 | <0.010 |
|                                                                                                          |                                          |                                                                         | -                                 | -             | -              | -                                             | -             | -                                  | Fruit               | 0              | <0.010           | <0.010      | 0.061  | <0.010 | <0.010 |
|                                                                                                          |                                          |                                                                         |                                   |               |                |                                               |               |                                    | Fruit               | 14             | <0.010           | <0.010      | 0.061  | <0.010 | <0.010 |
|                                                                                                          |                                          |                                                                         |                                   |               |                |                                               |               |                                    | Fruit               | 22             | <0.010           | <0.010      | 0.58   | <0.010 | <0.010 |
|                                                                                                          |                                          |                                                                         |                                   |               |                |                                               |               |                                    | Fruit               | 28             | <0.010           | <0.010      | 0.039  | <0.010 | <0.010 |
| 2019/2075101<br>41410 Carmona<br>Spain<br>(S-EU)<br>L190624<br>Plot 3 (olives for<br>oil production)     | Olive<br>FT 0305<br>OLVEU<br>Manzanilla  | 1. 1998<br>2. 15.04.2019-<br>28.04.2019<br>3. 24.10.2019-<br>31.10.2019 | 0.015<br>0.015                    | 1032<br>1061  | 0.155<br>0.159 | 2<br>03.10.2019                               | 10            | BBCH<br>81                         | Fruit               | 0              | 0.71             | <0.010      | 0.85   | <0.010 | 0.012  |
|                                                                                                          |                                          |                                                                         |                                   |               |                |                                               |               |                                    | Fruit               | 14             | 0.43             | <0.010      | 0.45   | <0.010 | <0.010 |
|                                                                                                          |                                          |                                                                         |                                   |               |                |                                               |               |                                    | Fruit               | 21             | 0.36             | <0.010      | 0.36   | <0.010 | 0.015  |
|                                                                                                          |                                          |                                                                         |                                   |               |                |                                               |               |                                    | Fruit               | 28             | 0.38             | <0.010      | 0.23   | <0.010 | <0.010 |
|                                                                                                          |                                          |                                                                         | -                                 | -             | -              | -                                             | -             | -                                  | Fruit               | 0              | <0.010           | <0.010      | 0.36   | <0.010 | 0.015  |
|                                                                                                          |                                          |                                                                         |                                   |               |                |                                               |               |                                    | Fruit               | 14             | <0.010           | <0.010      | <0.010 | <0.010 | 0.011  |
|                                                                                                          |                                          |                                                                         |                                   |               |                |                                               |               |                                    | Fruit               | 21             | <0.010           | <0.010      | 0.80   | <0.010 | 0.015  |
|                                                                                                          |                                          |                                                                         |                                   |               |                |                                               |               |                                    | Fruit               | 28             | <0.010           | <0.010      | 0.12   | <0.010 | 0.011  |
| 2019/2075101<br>63085 Nea Skioni<br>Greece<br>(S-EU)<br>L190625<br>Plot 3 (olives for<br>oil production) | Olive<br>FT 0305<br>OLVEU<br>Chalkidikis | 1. 1996<br>2. 25.05.2019-<br>10.06.2019<br>3. 05.11.2019-<br>20.11.2019 | 0.015<br>0.015                    | 998<br>1001   | 0.155<br>0.159 | 2<br>17.10.2019                               | 10            | BBCH<br>85                         | Fruit               | 0              | 0.96             | <0.010      | 0.23   | <0.010 | <0.010 |
|                                                                                                          |                                          |                                                                         |                                   |               |                |                                               |               |                                    | Fruit               | 14             | 0.93             | <0.010      | 0.43   | <0.010 | <0.010 |
|                                                                                                          |                                          |                                                                         |                                   |               |                |                                               |               |                                    | Fruit               | 21             | 1.2              | <0.010      | 0.56   | <0.010 | <0.010 |
|                                                                                                          |                                          |                                                                         |                                   |               |                |                                               |               |                                    | Fruit               | 28             | 1.1              | <0.010      | 0.64   | <0.010 | <0.010 |
|                                                                                                          |                                          |                                                                         | -                                 | -             | -              | -                                             | -             | -                                  | Fruit               | 0              | <0.010           | <0.010      | 0.23   | <0.010 | <0.010 |
|                                                                                                          |                                          |                                                                         |                                   |               |                |                                               |               |                                    | Fruit               | 14             | <0.010           | <0.010      | 0.15   | <0.010 | <0.010 |
|                                                                                                          |                                          |                                                                         |                                   |               |                |                                               |               |                                    | Fruit               | 21             | <0.010           | <0.010      | 0.59   | <0.010 | <0.010 |
|                                                                                                          |                                          |                                                                         |                                   |               |                |                                               |               |                                    | Fruit               | 28             | <0.010           | <0.010      | 0.17   | <0.010 | <0.010 |

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| Report No.<br>Location<br>(EU-region)<br>trial No                                                            | Commodity/<br>Variety                  | Date of<br>1. Sowing or<br>planting<br>2. Flowering<br>3. Harvest | Application rate per<br>treatment |               |                | No. of<br>treat-<br>ments<br>and last<br>date | RTI<br>(days) | Growth<br>stage<br>at last<br>date | Portion<br>analysed | DALA<br>(days) | Residues (mg/kg) |             |       |        |        |
|--------------------------------------------------------------------------------------------------------------|----------------------------------------|-------------------------------------------------------------------|-----------------------------------|---------------|----------------|-----------------------------------------------|---------------|------------------------------------|---------------------|----------------|------------------|-------------|-------|--------|--------|
|                                                                                                              |                                        |                                                                   | kg as/hL                          | Water<br>L/ha | kg<br>as/ha    |                                               |               |                                    |                     |                | BAS<br>750 F     | 1,2,4-<br>T | TA    | TAA    | TLA    |
| 2019/2075101<br>94010<br>Calascibetta<br>Italy<br>(S-EU)<br>L190626<br>Plot 3 (olives for<br>oil production) | Olive<br>FT 0305<br>OLVEU<br>Giarraffa | 1. 1985<br>2. 05.05.2019-<br>25.05.2019<br>3. 25.11.2019          | 0.015<br>0.015                    | 1006<br>1008  | 0.151<br>0.151 | 2<br>04.11.2019                               | 10            | BBCH<br>81-85                      | Fruit               | 0              | 0.29             | <0.010      | 0.020 | <0.010 | <0.010 |
|                                                                                                              |                                        |                                                                   |                                   |               |                |                                               |               |                                    | Fruit               | 14             | 0.14             | <0.010      | 0.044 | <0.010 | <0.010 |
|                                                                                                              |                                        |                                                                   |                                   |               |                |                                               |               |                                    | Fruit               | 21             | 0.15             | <0.010      | 0.30  | <0.010 | <0.010 |
|                                                                                                              |                                        |                                                                   |                                   |               |                |                                               |               |                                    | Fruit               | 28             | 0.23             | <0.010      | 0.091 | <0.010 | <0.010 |
|                                                                                                              |                                        |                                                                   | -                                 | -             | -              | -                                             | -             | -                                  | Fruit               | 0              | <0.010           | <0.010      | 0.041 | <0.010 | <0.010 |
|                                                                                                              |                                        |                                                                   |                                   |               |                |                                               |               |                                    | Fruit               | 14             | <0.010           | <0.010      | 0.025 | <0.010 | <0.010 |
|                                                                                                              |                                        |                                                                   |                                   |               |                |                                               |               |                                    | Fruit               | 21             | <0.010           | <0.010      | 0.43  | <0.010 | <0.010 |
|                                                                                                              |                                        |                                                                   |                                   |               |                |                                               |               |                                    | Fruit               | 28             | <0.010           | <0.010      | 0.061 | <0.010 | <0.010 |

#### **C.3.1.2.3.2 Study 2**

Reference: Study on the residue behaviour of BAS 750 F (Mefentrifluconazole) in oil olives and table olives after application of BAS 750 11 F under field conditions in Southern Europe, 2020, 2021, [REDACTED] BASF Study ID: 884411, BASF DocID: 2021/2010279

Guideline(s): Regulation (EC) no. 1107/2009 of the European Parliament and of the Council of 21 October 2009 concerning the placing of plant protection products on the market and repealing Council Directives 79/117/EEC and 91/414/EEC.

European Community Guideline 7029/VI/95 - rev.5, 22/07/97: General recommendations for the design preparation and realization of residue trials.

European Community Guideline SANCO 7525/VI/95 - rev.10.3, June 2017: Comparability, extrapolation, group tolerances and data requirements for setting MRLs.

OECD Guideline for the testing of chemicals – Crop Field Trials: OECD/OCDE 509. Adopted 7 September 2009.

Directive 2004/10/EC of 11th February 2004.

Deviations: No

GLP: Yes

Validity of the study: Validated

#### **Materials and methods**

Four trials on olives were conducted in southern France, Spain, Greece and Italy using 'BAS 750 11 F', an SC formulation containing 75 g/L mefentrifluconazole, in the 2020 growing season.

The trials were undertaken across two plots: one with table olives and the other with olives for oil production.

'BAS 750 15 F' was applied as a foliar spray at a nominal rate of 2 x 0.15 kg/ha mefentrifluconazole (actual: 2 x 0.150 - 0.162) in 997 – 1081 L/ha of water, resulting in a spray concentration of 0.015 kg a.s./hL. Two applications were made with a 9-12 day RTI and with last application at BBCH 75-79 (table olives) or BBCH (81-85 olives for oil

production) and a 20-21 day PHI. The applications support the notified critical GAP (2 x 0.15 kg a.s./ha, 21 day PHI, RTI 10 days BBCH 15-85).

As olives are a tall crop, residues may be driven by spray concentration due to direct application to the plant and the fact that the spray is often applied to run off. It is noted that the maximum spray concentration of the notified cGAP is 0.015 kg/hL (water volume: 100 L/ha). The spray concentration used in the trials was 0.015 kg/hL (water volume: approx. 1000 L/ha). As the spray concentration in the trials is in line with the cGAP, no further consideration is required.

Weather data were reported for the trials and no exceptional events were noted. The trials were decline trials, samples of olive fruits were taken at 0, 13-15, 20/21 and 27-29 days after last application. Samples containing at least 1 kg were collected from both treated and control plots. Samples were frozen within 12 hours and stored at  $\leq -18^{\circ}\text{C}$  until analysis. The maximum storage interval between harvest and analysis was 93 days for olives for oil production and 104 days for table olives. Data was considered in the DAR which demonstrates stability of mefentrifluconazole for this period of time in high oil crops when stored at  $\leq -18^{\circ}\text{C}$  (EFSA, 2018). The maximum storage interval between harvest and analysis for TDMs was 42 days for table olives and 81 for olives for oil production. Data was considered in the TDM Review (EFSA, 2018a) which demonstrates stability of TDMs for this period of time in high oil crops when stored at  $\leq -18^{\circ}\text{C}$ .

Analysis for mefentrifluconazole was performed using LC-MS/MS (method L0076/09) with an LOQ of 0.01 mg/kg. Analysis for TDMs was performed using LC-DMS-MS/MS (method L0170/02) with an LOQ of 0.01 mg/kg per analyte.

## Results and Discussion

The analytical method for analysing residues of mefentrifluconazole (L0076/09) was satisfactorily validated in accordance with SANCO 3029/99 rev. 4 on high oil commodities (UK, 2018b). The LOQ of the method is 0.01 mg/kg. The method was considered applicable to olives as 10 procedural recoveries (mean recovery of 96.3%) were presented across the 0.01, 0.1 and 10 mg/kg fortification levels for table olives and 8 procedural recoveries (mean recovery of 92.6%) were presented across the 0.01, 0.1 and 10 mg/kg fortification levels for olives for oil production.

The analytical method for analysing residues of TDMs (L0170/02) was satisfactorily validated in accordance with SANCO 3029/99 rev. 4 on high oil commodities (UK 2018). The LOQ of the method is 0.01 mg/kg per analyte. The method was considered applicable to table olives as 13 procedural recoveries (mean recovery of 87.2-102%) were presented across the 0.01, 0.1 and 1.0 mg/kg for each TDM. The method was considered applicable to olives for oil production as at least 11 procedural recoveries (mean recovery of 88.4-101%) were presented across the 0.01, 0.1, 1.0 (all TDMs) and 0.2 (TLA only) fortification levels.

No residues of 1,2,4-T or TAA were detected in control samples for all trials. Residues of mefentrifluconazole (0.018 mg/kg) were found in one control sample (table olive sample at 14 DALA from trial L200255). Residues of TLA (0.012 mg/kg) were found in one control sample from one trial. Residues of TA (up to 0.87 mg/kg) were found in all control samples from all trials.

Residues of mefentrifluconazole in table olives at 21 days after last application were between 0.30-0.77 mg/kg.

Residues of mefentrifluconazole in olives for oil production at 21 days after last application were between 0.32-1.4 mg/kg.

Residues of 1,2,4 T and TAA in both olives for oil production and table olives at 21 days after last application were <0.01 mg/kg.

Residues of TLA in table olives at 21 days after last application were between <0.01 – 0.013 mg/kg.

Residues of TLA in olives for oil production at 21 days after last application were <0.01 mg/kg.

Residues of TA in table olives at 21 days after last application were between 0.42 – 0.87 mg/kg.

Residues of TA in olives for oil production at 21 days after last application were between 0.53 – 0.77 mg/kg.

A summary of the residues trials is given in Table C.3.1.2.3.2-1.

**Table 3.1.2.3.2-1 Residue trials on olives**

|                              |                                                                                                                                                                                                                                                      |                                  |                                                                                                                                                                                                     |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reference:                   | Study on the residue behaviour of BAS 750 F (Mefentrifluconazole) in oil olives and table olives after application of BAS 750 11 F under field conditions in Southern Europe, 2020, [REDACTED] 2021, BASF Study ID: 884411, BASF DocID: 2021/2010279 |                                  |                                                                                                                                                                                                     |
| GLP:                         | Yes                                                                                                                                                                                                                                                  | Sample storage conditions:       | Mefentrifluconazole:<br>Table olives: 104 days at -18°C<br>olives for oil production 93 days at -18°C<br><br>TDMs:<br>Table Olives: 42 days at -18°C<br>olives for oil production: 81 days at -18°C |
| Crop/crop group:             | Olives/<br><br>Oil Fruits                                                                                                                                                                                                                            | Analytical method:               | L0076/09 and L0170/02, validated                                                                                                                                                                    |
| Indoor/outdoor:              | Outdoor                                                                                                                                                                                                                                              | Limit of Quantification (mg/kg): | 0.01                                                                                                                                                                                                |
| Formulation:                 | SC                                                                                                                                                                                                                                                   | Residues calculated as:          | Mefentrifluconazole, 1,2,4-T, TA, TAA and TLA                                                                                                                                                       |
| Content of active substance: | 75 g/L                                                                                                                                                                                                                                               |                                  |                                                                                                                                                                                                     |

The evaluation of new MRLs for mefentrifluconazole in or on various commodities

| Report No.<br>Location<br>(EU-region)<br>trial No                                                              | Commodity/<br>Variety                                           | Date of<br>1. Sowing<br>or planting<br>2. Flowering<br>3. Harvest                      | Application rate per<br>treatment |               |                  | No. of<br>treatments<br>and last<br>date | RTI<br>(days) | Growth<br>stage<br>at last<br>date | Portion<br>analysed              | DALA<br>(days)      | Residues (mg/kg)         |                  |             |                  |                  |
|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------|---------------|------------------|------------------------------------------|---------------|------------------------------------|----------------------------------|---------------------|--------------------------|------------------|-------------|------------------|------------------|
|                                                                                                                |                                                                 |                                                                                        | kg as/hL                          | Water<br>L/ha | kg<br>as/ha      |                                          |               |                                    |                                  |                     | Mefentri-<br>fluconazole | 1,2,4-<br>T      | TA          | TAA              | TLA              |
| 2021/2010279<br>34570<br>Montarnaud<br>Southern<br>France<br><br>(S-EU)<br>L200254<br>Plot 2 (table<br>olives) | Olive (table)<br>FT 0305<br>OLVEU<br>Picholine                  | 1. 2005<br>2.<br>12.04.2020-<br>25.04.2020<br>3.<br>18.09.2020-<br>08.10.2020          | 0.015<br>0.015                    | 1014<br>1038  | 0.1522<br>0.1557 | 2<br>31.08.2020                          | 12            | BBCH<br>79                         | Fruit<br>Fruit<br>Fruit<br>Fruit | 0<br>14<br>20<br>28 | 1.3                      | <0.010           | 0.70        | <0.010           | <0.010           |
|                                                                                                                |                                                                 |                                                                                        |                                   |               |                  |                                          |               |                                    |                                  |                     | 0.95                     | <0.010           | 0.36        | <0.010           | <0.010           |
|                                                                                                                |                                                                 |                                                                                        |                                   |               |                  |                                          |               |                                    |                                  |                     | <u>0.77</u>              | <u>&lt;0.010</u> | 0.12        | <u>&lt;0.010</u> | <u>&lt;0.010</u> |
|                                                                                                                |                                                                 |                                                                                        |                                   |               |                  |                                          |               |                                    |                                  |                     | 0.44                     | <0.010           | <u>0.60</u> | <0.010           | <0.010           |
|                                                                                                                |                                                                 |                                                                                        | -                                 | -             | -                | -                                        | -             | -                                  | Fruit<br>Fruit<br>Fruit<br>Fruit | 0<br>14<br>20<br>28 | <0.010                   | <0.010           | 0.56        | <0.010           | <0.010           |
|                                                                                                                |                                                                 |                                                                                        |                                   |               |                  |                                          |               |                                    |                                  |                     | <0.010                   | <0.010           | 0.75        | <0.010           | <0.010           |
|                                                                                                                |                                                                 |                                                                                        |                                   |               |                  |                                          |               |                                    |                                  |                     | <0.010                   | <0.010           | 0.085       | <0.010           | <0.010           |
|                                                                                                                |                                                                 |                                                                                        |                                   |               |                  |                                          |               |                                    |                                  |                     | <0.010                   | <0.010           | 0.60        | <0.010           | <0.010           |
| 2021/2010279<br>41760 EI<br>Coronil<br>Spain<br>(S-EU)<br><br>L200255<br>Plot 2 (table<br>olives)              | Olive (table)<br>FT 0305<br>OLVEU<br>Manzanilla                 | 1.<br>02.02.1998<br>2.<br>25.04.2020-<br>10.05.2020<br>3.<br>25.09.2020                | 0.015<br>0.015                    | 1026<br>1021  | 0.1538<br>0.1557 | 2<br>27.08.2020                          | 10            | BBCH<br>75                         | Fruit<br>Fruit<br>Fruit<br>Fruit | 0<br>14<br>21<br>29 | 0.57                     | <0.010           | 0.38        | <0.010           | <0.010           |
|                                                                                                                |                                                                 |                                                                                        |                                   |               |                  |                                          |               |                                    |                                  |                     | 0.53                     | <0.010           | 0.37        | <0.010           | <0.010           |
|                                                                                                                |                                                                 |                                                                                        |                                   |               |                  |                                          |               |                                    |                                  |                     | 0.60                     | <0.010           | <u>0.77</u> | <u>&lt;0.010</u> | <u>&lt;0.010</u> |
|                                                                                                                |                                                                 |                                                                                        |                                   |               |                  |                                          |               |                                    |                                  |                     | <u>0.77</u>              | <0.010           | 0.34        | <0.010           | <0.010           |
|                                                                                                                |                                                                 |                                                                                        | -                                 | -             | -                | -                                        | -             | -                                  | Fruit<br>Fruit<br>Fruit<br>Fruit | 0<br>14<br>21<br>29 | <0.010                   | <0.010           | 0.21        | <0.010           | <0.010           |
|                                                                                                                |                                                                 |                                                                                        |                                   |               |                  |                                          |               |                                    |                                  |                     | 0.018                    | <0.010           | 0.23        | <0.010           | <0.010           |
|                                                                                                                |                                                                 |                                                                                        |                                   |               |                  |                                          |               |                                    |                                  |                     | <0.010                   | <0.010           | 0.44        | <0.010           | <0.010           |
|                                                                                                                |                                                                 |                                                                                        |                                   |               |                  |                                          |               |                                    |                                  |                     | <0.010                   | <u>0.010</u>     | 0.30        | <0.010           | <0.010           |
| 2021/2010279<br>63085 Nea<br>Skioni<br>Greece<br>(S-EU)                                                        | Olive (table)<br>FT 0305<br>OLVEU<br>Chondroelia<br>Chalkidikis | 1.<br>15.03.1992<br>2.<br>10.05.2020-<br>22.05.2020<br>3.<br>20.09.2019-<br>30.09.2019 | 0.015<br>0.015                    | 1015<br>997   | 0.1523<br>0.1495 | 2<br>31.08.2020                          | 11            | BBCH<br>77                         | Fruit<br>Fruit<br>Fruit<br>Fruit | 0<br>15<br>21<br>28 | 0.54                     | <0.010           | 0.12        | <0.010           | 0.010            |
|                                                                                                                |                                                                 |                                                                                        |                                   |               |                  |                                          |               |                                    |                                  |                     | 0.54                     | <0.010           | 0.20        | <0.010           | 0.012            |
|                                                                                                                |                                                                 |                                                                                        |                                   |               |                  |                                          |               |                                    |                                  |                     | <u>0.44</u>              | <u>&lt;0.010</u> | 0.30        | <u>&lt;0.010</u> | <u>0.013</u>     |
|                                                                                                                |                                                                 |                                                                                        | 0.015<br>0.015                    | 1015<br>997   | 0.1523<br>0.1495 | 2<br>31.08.2020                          | 11            | BBCH<br>77                         | Fruit<br>Fruit<br>Fruit<br>Fruit | 0<br>15<br>21<br>28 | 0.31                     | <0.010           | <u>0.42</u> | <0.010           | <0.010           |
|                                                                                                                |                                                                 |                                                                                        |                                   |               |                  |                                          |               |                                    |                                  |                     |                          |                  |             |                  |                  |
|                                                                                                                |                                                                 |                                                                                        |                                   |               |                  |                                          |               |                                    |                                  |                     |                          |                  |             |                  |                  |

The evaluation of new MRLs for mefentrifluconazole in or on various commodities

| Report No.<br>Location<br>(EU-region)<br>trial No                                                                              | Commodity/<br>Variety                        | Date of<br>1. Sowing<br>or planting<br>2. Flowering<br>3. Harvest             | Application rate per<br>treatment |               |                  | No. of<br>treatments<br>and last<br>date | RTI<br>(days) | Growth<br>stage<br>at last<br>date | Portion<br>analysed              | DALA<br>(days)      | Residues (mg/kg)                     |                                                |                                     |                                                |                                                |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------|---------------|------------------|------------------------------------------|---------------|------------------------------------|----------------------------------|---------------------|--------------------------------------|------------------------------------------------|-------------------------------------|------------------------------------------------|------------------------------------------------|
|                                                                                                                                |                                              |                                                                               | kg as/hL                          | Water<br>L/ha | kg<br>as/ha      |                                          |               |                                    |                                  |                     | Mefentri-<br>fluconazole             | 1,2,4-<br>T                                    | TA                                  | TAA                                            | TLA                                            |
| L200256<br>Plot 2 (table<br>olives)                                                                                            |                                              |                                                                               | -                                 | -             | -                | -                                        | -             | -                                  | Fruit<br>Fruit<br>Fruit<br>Fruit | 0<br>15<br>21<br>28 | <0.010<br><0.010<br><0.010<br><0.010 | <0.010<br><0.010<br><0.010<br><0.010           | 0.54<br>0.37<br>0.32<br>0.41        | <0.010<br><0.010<br><0.010<br><0.010           | <0.010<br><0.010<br>0.012<br><0.010            |
| 2021/2010279<br>71029 Troia<br>Italy<br>(S-EU)<br>L200257<br><br>Plot 2 (table<br>olives)                                      | Olive (table)<br>FT 0305<br>OLVEU<br>Leccino | 1.<br>20.03.1972<br>2.<br>10.05.2020-<br>25.05.2020<br>3.<br>28.09.2020       | 0.015<br>0.015                    | 1022<br>1026  | 0.1533<br>0.1539 | 2<br>07.09.2020                          | 10            | BBCH<br>75                         | Fruit<br>Fruit<br>Fruit<br>Fruit | 0<br>14<br>21<br>28 | 0.57<br>0.45<br><u>0.30</u><br>0.28  | <0.010<br><0.010<br><u>&lt;0.010</u><br><0.010 | 0.67<br>0.54<br>0.18<br>0.46        | <0.010<br><0.010<br><u>&lt;0.010</u><br><0.010 | <0.010<br><0.010<br><u>&lt;0.010</u><br><0.010 |
|                                                                                                                                |                                              |                                                                               | -                                 | -             | -                | -                                        | -             | -                                  | Fruit<br>Fruit<br>Fruit<br>Fruit | 0<br>14<br>21<br>28 | <0.010<br><0.010<br><0.010<br><0.010 | <0.010<br><0.010<br><0.010<br><0.010           | 0.50<br>0.62<br><u>0.87</u><br>0.43 | <0.010<br><0.010<br><0.010<br><0.010           | <0.010<br><0.010<br><0.010<br><0.010           |
| 2021/2010279<br>34570<br>Montarnaud<br>Southern<br>France<br><br>(S-EU)<br>L200254<br>Plot 3 (olives<br>for oil<br>production) | Olive (oil)<br>FT 0305<br>OLVEU<br>Picholine | 1. 2005<br>2.<br>12.04.2020-<br>25.04.2020<br>3.<br>23.11.2020-<br>14.12.2020 | 0.015<br>0.015                    | 1014<br>1038  | 0.1522<br>0.1577 | 2<br>12.11.2020                          | 10            | BBCH<br>81                         | Fruit<br>Fruit<br>Fruit<br>Fruit | 0<br>14<br>21<br>27 | 1.4<br>1.3<br><u>1.4</u><br>0.25     | <0.010<br><0.010<br><u>&lt;0.010</u><br><0.010 | 0.69<br>0.94<br>0.16<br>0.63        | <0.010<br><0.010<br><u>&lt;0.010</u><br><0.010 | <0.010<br><0.010<br><u>&lt;0.010</u><br><0.010 |
|                                                                                                                                |                                              |                                                                               | -                                 | -             | -                | -                                        | -             | -                                  | Fruit<br>Fruit<br>Fruit<br>Fruit | 0<br>14<br>21<br>27 | <0.010<br><0.010<br><0.010<br><0.010 | <0.010<br><0.010<br><0.010<br><0.010           | 0.54<br>0.63<br>0.28<br><u>0.74</u> | <0.010<br><0.010<br><0.010<br><0.010           | <0.010<br><0.010<br><0.010<br><0.010           |

The evaluation of new MRLs for mefentrifluconazole in or on various commodities

| Report No.<br>Location<br>(EU-region)<br>trial No                                                                  | Commodity/<br>Variety                                         | Date of<br>1. Sowing<br>or planting<br>2. Flowering<br>3. Harvest                      | Application rate per<br>treatment |               |                  | No. of<br>treatments<br>and last<br>date | RTI<br>(days) | Growth<br>stage<br>at last<br>date | Portion<br>analysed              | DALA<br>(days)      | Residues (mg/kg)         |             |             |        |        |
|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------|---------------|------------------|------------------------------------------|---------------|------------------------------------|----------------------------------|---------------------|--------------------------|-------------|-------------|--------|--------|
|                                                                                                                    |                                                               |                                                                                        | kg as/hL                          | Water<br>L/ha | kg<br>as/ha      |                                          |               |                                    |                                  |                     | Mefentri-<br>fluconazole | 1,2,4-<br>T | TA          | TAA    | TLA    |
| 2021/2010279<br>41760 EI<br>Coronil<br>Spain<br>(S-EU)<br><br>L200255<br>Plot 3 (olives<br>for oil<br>production)  | Olive (oil)<br>FT 0305<br>OLVEU<br>Manzanilla                 | 1.<br>02.02.1998<br>2.<br>25.04.2020-<br>10.05.2020<br>3.<br>24.11.2020                | 0.015<br>0.015                    | 1026<br>1021  | 0.1538<br>0.1531 | 2<br>28.10.2020                          | 9             | BBCH<br>85                         | Fruit<br>Fruit<br>Fruit<br>Fruit | 0<br>14<br>21<br>27 | 0.62                     | <0.010      | 0.40        | <0.010 | <0.010 |
|                                                                                                                    |                                                               |                                                                                        |                                   |               |                  |                                          |               |                                    |                                  |                     | 0.55                     | <0.010      | <0.010      | <0.010 | <0.010 |
|                                                                                                                    |                                                               |                                                                                        |                                   |               |                  |                                          |               |                                    |                                  |                     | <u>0.33</u>              | <0.010      | 0.17        | <0.010 | <0.010 |
|                                                                                                                    |                                                               |                                                                                        |                                   |               |                  |                                          |               |                                    |                                  |                     | 0.27                     | <0.010      | 0.65        | <0.010 | <0.010 |
|                                                                                                                    |                                                               |                                                                                        | -                                 | -             | -                | -                                        | -             | -                                  | Fruit<br>Fruit<br>Fruit<br>Fruit | 0<br>14<br>21<br>27 | <0.010                   | <0.010      | 0.036       | <0.010 | <0.010 |
|                                                                                                                    |                                                               |                                                                                        |                                   |               |                  |                                          |               |                                    |                                  |                     | <0.010                   | <0.010      | 0.14        | <0.010 | <0.010 |
|                                                                                                                    |                                                               |                                                                                        |                                   |               |                  |                                          |               |                                    |                                  |                     | <0.010                   | <0.010      | 0.22        | <0.010 | <0.010 |
|                                                                                                                    |                                                               |                                                                                        |                                   |               |                  |                                          |               |                                    |                                  |                     | <0.010                   | <0.010      | <u>0.77</u> | <0.010 | <0.010 |
| 2021/2010279<br>63085 Nea<br>Skioni<br>Greece<br>(S-EU)<br><br>L200256<br>Plot 3 (olives<br>for oil<br>production) | Olive (oil)<br>FT 0305<br>OLVEU<br>Chondroelia<br>Chalkidikis | 1.<br>15.03.1992<br>2.<br>10.05.2020-<br>22.05.2020<br>3.<br>05.11.2020-<br>20.11.2020 | 0.015<br>0.015                    | 1015<br>997   | 0.1523<br>0.1495 | 2<br>16.10.2020                          | 10            | BBCH<br>81                         | Fruit<br>Fruit<br>Fruit<br>Fruit | 0<br>13<br>21<br>28 | 0.90                     | <0.010      | 0.14        | <0.010 | <0.010 |
|                                                                                                                    |                                                               |                                                                                        |                                   |               |                  |                                          |               |                                    |                                  |                     | 0.68                     | <0.010      | 0.17        | <0.010 | <0.010 |
|                                                                                                                    |                                                               |                                                                                        |                                   |               |                  |                                          |               |                                    |                                  |                     | 0.52                     | <0.010      | 0.16        | <0.010 | <0.010 |
|                                                                                                                    |                                                               |                                                                                        |                                   |               |                  |                                          |               |                                    |                                  |                     | <u>0.60</u>              | <0.010      | 0.035       | <0.010 | <0.010 |
|                                                                                                                    |                                                               |                                                                                        | -                                 | -             | -                | -                                        | -             | -                                  | Fruit<br>Fruit<br>Fruit<br>Fruit | 0<br>13<br>21<br>28 | <0.010                   | <0.010      | 0.72        | <0.010 | <0.010 |
|                                                                                                                    |                                                               |                                                                                        |                                   |               |                  |                                          |               |                                    |                                  |                     | <0.010                   | <0.010      | 0.82        | <0.010 | <0.010 |
|                                                                                                                    |                                                               |                                                                                        |                                   |               |                  |                                          |               |                                    |                                  |                     | <0.010                   | <0.010      | 0.47        | <0.010 | <0.010 |
|                                                                                                                    |                                                               |                                                                                        |                                   |               |                  |                                          |               |                                    |                                  |                     | <0.010                   | <0.010      | <u>0.63</u> | <0.010 | <0.010 |
| 2021/2010279<br>71029 Troia<br>Italy<br>(S-EU)<br>L200257                                                          | Olive (oil)<br>FT 0305<br>OLVEU<br>Leccino                    | 1.<br>20.03.1972<br>2.<br>10.05.2020-<br>25.05.2020<br>3.<br>03.11.2020                | 0.015<br>0.015                    | 1022<br>1026  | 0.1533<br>0.1539 | 2<br>13.10.2020                          | 10            | BBCH<br>81                         | Fruit<br>Fruit<br>Fruit<br>Fruit | 0<br>14<br>21<br>28 | 0.38                     | <0.010      | 0.084       | <0.010 | <0.010 |
|                                                                                                                    |                                                               |                                                                                        |                                   |               |                  |                                          |               |                                    |                                  |                     | 0.33                     | <0.010      | 0.26        | <0.010 | <0.010 |
|                                                                                                                    |                                                               |                                                                                        |                                   |               |                  |                                          |               |                                    |                                  |                     | <u>0.32</u>              | <0.010      | 0.087       | <0.010 | <0.010 |
|                                                                                                                    |                                                               |                                                                                        |                                   |               |                  |                                          |               |                                    |                                  |                     | 0.26                     | <0.010      | 0.28        | <0.010 | <0.010 |
|                                                                                                                    |                                                               |                                                                                        |                                   |               |                  |                                          |               |                                    |                                  |                     |                          |             |             |        |        |

The evaluation of new MRLs for mefentrifluconazole in or on various commodities

| Report No.<br>Location<br>(EU-region)<br>trial No | Commodity/<br>Variety | Date of<br>1. Sowing<br>or planting<br>2. Flowering<br>3. Harvest | Application rate per<br>treatment |               |             | No. of<br>treatments<br>and last<br>date | RTI<br>(days) | Growth<br>stage<br>at last<br>date | Portion<br>analysed | DALA<br>(days) | Residues (mg/kg)         |             |             |        |        |
|---------------------------------------------------|-----------------------|-------------------------------------------------------------------|-----------------------------------|---------------|-------------|------------------------------------------|---------------|------------------------------------|---------------------|----------------|--------------------------|-------------|-------------|--------|--------|
|                                                   |                       |                                                                   | kg as/hL                          | Water<br>L/ha | kg<br>as/ha |                                          |               |                                    |                     |                | Mefentri-<br>fluconazole | 1,2,4-<br>T | TA          | TAA    | TLA    |
| Plot 3 (olives<br>for oil<br>production)          |                       |                                                                   | -                                 | -             | -           | -                                        | -             | -                                  | Fruit               | 0              | <0.010                   | <0.010      | 0.82        | <0.010 | <0.010 |
|                                                   |                       |                                                                   |                                   |               |             |                                          |               |                                    | Fruit               | 14             | <0.010                   | <0.010      | 0.66        | <0.010 | <0.010 |
|                                                   |                       |                                                                   |                                   |               |             |                                          |               |                                    | Fruit               | 21             | <0.010                   | <0.010      | <u>0.53</u> | <0.010 | <0.010 |
|                                                   |                       |                                                                   |                                   |               |             |                                          |               |                                    | Fruit               | 28             | <0.010                   | <0.010      | 0.092       | <0.010 | <0.010 |

#### **C.3.1.2.4 Beans**

##### **C.3.1.2.4.1 Study 1**

Reference: Study on the residue behaviour of BAS 750 F (Mefentrifluconazole) in beans (*Vicia faba*) after application of BAS 750 05 F under field conditions in Northern and Southern Europe, 2019, [REDACTED] 2020, Study no.: AC/BASF/19/09, BASF Doc ID: 2020/2006189

Guideline(s): Regulation (EC) No. 1107/2009 of the European Parliament and the Council of 21 October 2009 concerning the placing of plant protection products on the market and repealing Council Directives 79/117/EEC and 91/414/EEC

European Community Guideline 7029/VI/95 - rev.5, 22/07/97: General recommendations for the design preparation and realization of residue trials.

European Community Guideline SANCO 7525/VI/95 - Rev. 10.3, 13 June 2017: Guidelines on comparability, extrapolation, group tolerances and data requirements for setting MRLs.

OECD Guideline for the testing of chemicals – Crop Field Trials: OECD/OCDE 509. Adopted 7 September 2009

Deviations: No

GLP: Yes

Validity of the study: Validated

#### **Materials and methods**

Eight trials on beans (broad) were conducted in Germany, the Netherlands, the UK, northern France, southern France, Greece, Italy and Spain using 'BAS 750 05 F', an SC formulation containing 75 g/L mefentrifluconazole, in the 2019 growing season.

'BAS 750 05 F' was applied as a foliar spray at a rate of 2 x 0.088 – 0.109 kg/ha mefentrifluconazole in 200 L/ha of water. Two applications were made with a 9-10 day RTI and with last application at BBCH 72, PHI was defined by application timing. The applications were within  $\pm 25\%$  of the notified critical GAP (2 x 0.098 kg a.s./ha, PHI defined by last application timing, BBCH 50-72, RTI 10 days).

Weather data were reported for the trials and no exceptional events were noted. The trials were decline trials, samples were taken at BBCH 72 (whole plant), 79 (seed and rest of plant) and 89 (seed and rest of plant). Samples containing at least 1 kg (seed and whole plant) or 0.5 kg (rest of plant) were collected from both treated and control plots. Samples were frozen within 6 hours and stored at  $\leq -18^{\circ}\text{C}$  until analysis. The maximum storage interval between harvest and analysis for mefentrifluconazole was 252 days. Data was considered in the DAR which demonstrates stability of mefentrifluconazole for this period of time in high water crops when stored at  $\leq -18^{\circ}\text{C}$  (EFSA, 2018b).

The maximum storage interval between harvest and analysis for TDMs was 191 days. Data was considered in the TDM Review (EFSA, 2018a) which demonstrates stability of TDMs for this period of time in high water crops when stored at  $\leq -18^{\circ}\text{C}$ .

Analysis for mefentrifluconazole was performed using LC-MS/MS method L0076/09 with an LOQ of 0.01 mg/kg. Analysis for TDMs were performed using LC-MS/MS method L0170/02 with an LOQ of 0.01 mg/kg per analyte.

## Results and Discussion

The analytical method for analysing residues of mefentrifluconazole (L0076/09) was satisfactorily validated in accordance with SANCO 3029/99 rev. 4 on high water commodities (UK, 2018b). The LOQ of the method is 0.01 mg/kg. The method was considered applicable to beans as 8 procedural recoveries for beans whole plant (mean recovery of 94.9%), beans seeds (mean recovery of 90.0%) and beans rest of plant (without roots) (mean recovery 88.3%) were presented across the 0.010, 0.10, 2.0 and 10 mg/kg fortification levels.

The analytical method for analysing residues of TDMs (L0170/02) was satisfactorily validated in accordance with SANCO 3029/99 rev. 4 on high water commodities (UK, 2018a). The LOQ of the method is 0.01 mg/kg per analyte. The method was considered applicable to beans as at least 15 procedural recoveries for bean seeds (mean recovery of 90-98.6 %) were presented across the 0.010, 0.10 and 2.0 mg/kg fortification levels for all TDMs. Also at least 6 procedural recoveries (mean recovery 85.1-89.2%) for whole plant (no roots) were presented across the 0.010, 0.10 and 10 mg/kg fortification levels for all TDMs and at least 8 procedural recoveries (mean recovery 92.3- 99.9%) were presented across the 0.010, 0.10 and 1.0 mg/kg fortification levels for all TDMs.

No mefentrifluconazole residues at or above the LOQ were detected in control samples of bean seeds (without pods) for all trials. TA residues were detected in untreated control samples, these residues did not exceed 0.50 mg/kg. TAA residues were detected in untreated control samples, these residues did not exceed 0.017 mg/kg. TLA residues were detected in untreated control samples, these residues did not exceed 0.097 mg/kg. 1,2,4-T residues were detected in untreated control samples, these residues did not exceed 0.017 mg/kg.

Residues of mefentrifluconazole in bean seeds (without pods) were between <0.01 – 0.025 mg/kg.

Residues of 1,2,4-T, TAA and TLA in beans seeds (without pods) were <0.01 mg/kg.

Residues of TA in beans seeds (without pods) were between 0.06 – 0.49 mg/kg.

A summary of the residues trials is given in Table C.3.1.2.4.1-1.

#### Table 3.1.2.4.1.1 Residue Trials on Beans

|                              |                                                                                                                                                                                                                                                                  |                                  |                                                                      |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------------------------------------------------------------------|
| Reference:                   | Study on the residue behaviour of BAS 750 F (Mefentrifluconazole) in beans ( <i>Vicia faba</i> ) after application of BAS 750 05 F under field conditions in Northern and Southern Europe, 2019, ■■■■■ 2020, Study no.: AC/BASF/19/09, BASF Doc ID: 2020/2006189 |                                  |                                                                      |
| GLP:                         | Yes                                                                                                                                                                                                                                                              | Sample storage conditions:       | Mefentrifluconazole:<br>252 days, -18°C<br><br>TDMs: 191 days, -18°C |
| Crop/crop group:             | Beans / Legume vegetables                                                                                                                                                                                                                                        | Analytical method:               | L0076/09 and L0170/02, validated                                     |
| Indoor/outdoor:              | Outdoor                                                                                                                                                                                                                                                          | Limit of Quantification (mg/kg): | 0.01                                                                 |
| Formulation:                 | SC                                                                                                                                                                                                                                                               | Residues calculated as:          | Mefentrifluconazole, 1,2,4-T, TA, TAA and TLA                        |
| Content of active substance: | 75 g/L                                                                                                                                                                                                                                                           |                                  |                                                                      |

| Report No.<br>Location<br>(EU-region)<br>trial No                                                | Commodity/<br>Variety                       | Date of<br>1. Sowing<br>or<br>planting<br>2.<br>Flowering<br>3. Harvest | Appli rate treatme<br>cation per nt |               |             | No. of<br>treatments<br>and last<br>date | RTI<br>(days<br>) | Growth<br>stage<br>at last<br>date | Portion analysed        | DALA | Residu<br>es (mg/kg) |         |        |        |        |
|--------------------------------------------------------------------------------------------------|---------------------------------------------|-------------------------------------------------------------------------|-------------------------------------|---------------|-------------|------------------------------------------|-------------------|------------------------------------|-------------------------|------|----------------------|---------|--------|--------|--------|
|                                                                                                  |                                             |                                                                         | kg<br>as/hL                         | Water<br>L/ha | kg<br>as/ha |                                          |                   |                                    |                         |      | BAS<br>750 F         | 1,2,4-T | TA     | TAA    | TLA    |
| #2020/2006189<br>16833 Lentzke<br>Brandenburg<br>Germany<br>(N-EU)<br>L190248                    | Bean (broad)<br>VD 0523<br>Fuego<br>VICFX   | 1.<br>22.03.2019<br>2. 23.05.-<br>11.06.2019<br>3.<br>19.07.2019        | 0.048<br>75                         | 200           | 0.0975      | 2<br>17.06.2019                          | 10                | BBCH<br>72                         | Whole plant, no roots   | 0    | 2.3                  | <0.010  | <0.010 | <0.010 | <0.010 |
|                                                                                                  |                                             |                                                                         |                                     |               |             |                                          |                   |                                    | Seed, green             | 11   | <0.010               | <0.010  | 0.065  | <0.010 | <0.010 |
|                                                                                                  |                                             |                                                                         |                                     |               |             |                                          |                   |                                    | Rest of plant w/o roots | 11   | 2.1                  | <0.010  | <0.010 | <0.010 | <0.010 |
|                                                                                                  |                                             |                                                                         |                                     |               |             |                                          |                   |                                    | Seed, dry               | 32   | <0.010               | <0.010  | 0.068  | <0.010 | <0.010 |
|                                                                                                  |                                             |                                                                         |                                     |               |             |                                          |                   |                                    | Rest of plant w/o roots | 32   | 1.7                  | <0.010  | <0.010 | <0.010 | <0.010 |
|                                                                                                  |                                             |                                                                         | -                                   | -             | -           | -                                        | -                 | -                                  | Whole plant, no roots   | 0    | <0.010               | <0.010  | <0.010 | <0.010 | <0.010 |
|                                                                                                  |                                             |                                                                         |                                     |               |             |                                          |                   |                                    | Seed, green             | 11   | <0.010               | <0.010  | 0.025  | <0.010 | <0.010 |
|                                                                                                  |                                             |                                                                         |                                     |               |             |                                          |                   |                                    | rest of plant w/o roots | 11   | <0.010               | <0.010  | <0.010 | <0.010 | <0.010 |
|                                                                                                  |                                             |                                                                         |                                     |               |             |                                          |                   |                                    | Seed, dry               | 32   | <0.010               | <0.010  | 0.023  | <0.010 | <0.010 |
|                                                                                                  |                                             |                                                                         |                                     |               |             |                                          |                   |                                    | rest of plant w/o roots | 32   | <0.010               | <0.010  | <0.010 | <0.010 | <0.010 |
| #2020/2006189<br>4119 LK<br>Ravenswaaij<br>Gelderland<br>The<br>Netherlands<br>(N-EU)<br>L190249 | Bean (broad)<br>VD 0523<br>Pyramid<br>VICFX | 1.<br>20.04.2019<br>2. 16.06.-<br>02.07.2019<br>3.<br>16.08.2019        | 0.048<br>75                         | 200           | 0.0975      | 2<br>13.07.2019                          | 9                 | BBCH<br>72                         | Whole plant, no roots   | 0    | 2.3                  | <0.010  | 0.022  | <0.010 | <0.010 |
|                                                                                                  |                                             |                                                                         |                                     |               |             |                                          |                   |                                    | Seed, green             | 13   | 0.016                | <0.010  | 0.11   | <0.010 | <0.010 |
|                                                                                                  |                                             |                                                                         |                                     |               |             |                                          |                   |                                    | rest of plant w/o roots | 13   | 0.88                 | <0.010  | <0.010 | <0.010 | <0.010 |
|                                                                                                  |                                             |                                                                         |                                     |               |             |                                          |                   |                                    | Seed, dry               | 34   | <0.010               | <0.010  | 0.11   | <0.010 | <0.010 |
|                                                                                                  |                                             |                                                                         |                                     |               |             |                                          |                   |                                    | rest of plant w/o roots | 34   | 0.22                 | <0.010  | <0.010 | <0.010 | <0.010 |
|                                                                                                  |                                             |                                                                         | -                                   | -             | -           | -                                        | -                 | -                                  | Whole plant, no roots   | 0    | <0.010               | <0.010  | 0.038  | <0.010 | <0.010 |
|                                                                                                  |                                             |                                                                         |                                     |               |             |                                          |                   |                                    | Seed, green             | 13   | <0.010               | <0.010  | 0.11   | <0.010 | <0.010 |
|                                                                                                  |                                             |                                                                         |                                     |               |             |                                          |                   |                                    | rest of plant w/o roots | 13   | <0.010               | <0.010  | <0.010 | <0.010 | <0.010 |
|                                                                                                  |                                             |                                                                         |                                     |               |             |                                          |                   |                                    | Seed, dry               | 34   | <0.010               | <0.010  | 0.13   | <0.010 | <0.010 |
|                                                                                                  |                                             |                                                                         |                                     |               |             |                                          |                   |                                    | rest of plant w/o roots | 34   | <0.010               | <0.010  | <0.010 | <0.010 | 0.016  |
| #2020/2006189<br>CO11 2NG<br>Manningtree<br>Essex<br>United<br>Kingdom<br>L190250                | Bean (broad)<br>VD 0523<br>Fanfare<br>VICFX | 1.<br>26.03.2019<br>2. June<br>2019<br>3.<br>29.08.2019                 | 0.048<br>75                         | 200           | 0.0975      | 2<br>19.07.2019                          | 10                | BBCH<br>72                         | Whole plant, no roots   | 0    | 2.5                  | <0.010  | 0.051  | <0.010 | <0.010 |
|                                                                                                  |                                             |                                                                         |                                     |               |             |                                          |                   |                                    | Seed, green             | 26   | 0.025                | <0.010  | 0.22   | <0.010 | <0.010 |
|                                                                                                  |                                             |                                                                         |                                     |               |             |                                          |                   |                                    | rest of plant w/o roots | 26   | 0.62                 | <0.010  | 0.030  | <0.010 | 0.014  |
|                                                                                                  |                                             |                                                                         |                                     |               |             |                                          |                   |                                    | Seed, dry               | 41   | <0.010               | <0.010  | 0.18   | <0.010 | <0.010 |
|                                                                                                  |                                             |                                                                         |                                     |               |             |                                          |                   |                                    | rest of plant w/o roots | 41   | 0.23                 | <0.010  | 0.041  | <0.010 | 0.013  |
|                                                                                                  |                                             |                                                                         |                                     |               |             |                                          |                   |                                    |                         |      |                      |         |        |        |        |

The evaluation of new MRLs for mefentrifluconazole in or on various commodities

| Report No.<br>Location<br>(EU-region)<br>trial No                                                                 | Commodity/<br>Variety                        | Date of<br>1. Sowing<br>or<br>planting<br>2.<br>Flowering<br>3. Harvest | Appli rate treatme<br>cation per nt |               |             | No. of<br>treatments<br>and last<br>date | RTI<br>(days<br>) | Growth<br>stage<br>at last<br>date | Portion analysed                                                                                        | DALA                      | Residu<br>es (mg/kg)                           |                                                |                                          |                                                |                                               |
|-------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-------------------------------------------------------------------------|-------------------------------------|---------------|-------------|------------------------------------------|-------------------|------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------|------------------------------------------------|------------------------------------------------|------------------------------------------|------------------------------------------------|-----------------------------------------------|
|                                                                                                                   |                                              |                                                                         | kg<br>as/hL                         | Water<br>L/ha | kg<br>as/ha |                                          |                   |                                    |                                                                                                         |                           | BAS<br>750 F                                   | 1,2,4-T                                        | TA                                       | TAA                                            | TLA                                           |
|                                                                                                                   |                                              |                                                                         | -                                   | -             | -           | -                                        | -                 | -                                  | Whole plant, no roots<br>Seed, green<br>rest of plant w/o roots<br>Seed, dry<br>rest of plant w/o roots | 0<br>26<br>26<br>41<br>41 | <0.010<br><0.010<br><0.010<br><0.010<br><0.010 | <0.010<br><0.010<br><0.010<br><0.010<br><0.010 | 0.034<br>0.090<br>0.022<br>0.13<br>0.016 | <0.010<br><0.010<br><0.010<br><0.010<br><0.010 | <0.010<br><0.010<br>0.012<br><0.010<br><0.010 |
| #2020/2006189<br>49480 Saint<br>Sylvain d'Anjou<br>Pays de la<br>Loire<br>Northern<br>France<br>(N-EU)<br>L190251 | Bean (broad)<br>VD 0523<br>Espresso<br>VICFX | 1.<br>03.03.2019<br>2. 18.05.-<br>02.06.2019<br>3.<br>10.07.2019        | 0.048<br>75                         | 200           | 0.0975      | 2<br>06.06.2019                          | 9                 | BBCH<br>72                         | Whole plant, no roots                                                                                   | 0                         | 3.4                                            | <0.010                                         | 0.046                                    | <0.010                                         | 0.020                                         |
|                                                                                                                   |                                              |                                                                         |                                     |               |             |                                          |                   |                                    | Seed, green                                                                                             | 20                        | <0.010                                         | <0.010                                         | 0.26                                     | <0.010                                         | <0.010                                        |
|                                                                                                                   |                                              |                                                                         |                                     |               |             |                                          |                   |                                    | rest of plant w/o roots                                                                                 | 20                        | 0.19                                           | <0.010                                         | <0.010                                   | <0.010                                         | 0.021                                         |
|                                                                                                                   |                                              |                                                                         |                                     |               |             |                                          |                   |                                    | Seed, dry                                                                                               | 33                        | <0.010                                         | <0.010                                         | 0.25                                     | <0.010                                         | 0.015                                         |
|                                                                                                                   |                                              |                                                                         |                                     |               |             |                                          |                   |                                    | rest of plant w/o roots                                                                                 | 33                        | 0.14                                           | <0.010                                         | 0.054                                    | <0.010                                         | 0.045                                         |
|                                                                                                                   |                                              |                                                                         | -                                   | -             | -           | -                                        | -                 | -                                  | Whole plant, no roots                                                                                   | 0                         | <0.010                                         | <0.010                                         | 0.049                                    | <0.010                                         | 0.021                                         |
|                                                                                                                   |                                              |                                                                         |                                     |               |             |                                          |                   |                                    | Seed, green                                                                                             | 20                        | <0.010                                         | <0.010                                         | <u>0.39</u>                              | <0.010                                         | <0.010                                        |
|                                                                                                                   |                                              |                                                                         |                                     |               |             |                                          |                   |                                    | rest of plant w/o roots                                                                                 | 20                        | <0.010                                         | <0.010                                         | 0.029                                    | <0.010                                         | 0.035                                         |
|                                                                                                                   |                                              |                                                                         |                                     |               |             |                                          |                   |                                    | Seed, dry                                                                                               | 33                        | <0.010                                         | <0.010                                         | 0.50                                     | <0.010                                         | 0.027                                         |
|                                                                                                                   |                                              |                                                                         |                                     |               |             |                                          |                   |                                    | rest of plant w/o roots                                                                                 | 33                        | <0.010                                         | <0.010                                         | 0.092                                    | 0.011                                          | 0.097                                         |
| #2020/2006189<br>49480<br>Plaisance<br>Nouvelle-<br>Aquitaine<br>Southern<br>France<br>(S-EU)<br>L190252          | Bean (broad)<br>VD 0523<br>Irena<br>VICFX    | 1.<br>10.11.2018<br>2. 03.05.-<br>12.05.2019<br>3.<br>16.07.2019        | 0.048<br>75                         | 200           | 0.0975      | 2<br>20.05.2019                          | 10                | BBCH<br>72                         | Whole plant, no roots                                                                                   | 0                         | 3.3                                            | <0.010                                         | 0.057                                    | <0.010                                         | 0.018                                         |
|                                                                                                                   |                                              |                                                                         |                                     |               |             |                                          |                   |                                    | Seed, green                                                                                             | 18                        | <u>&lt;0.010</u>                               | <u>&lt;0.010</u>                               | 0.43                                     | <u>&lt;0.010</u>                               | <u>&lt;0.010</u>                              |
|                                                                                                                   |                                              |                                                                         |                                     |               |             |                                          |                   |                                    | rest of plant w/o roots                                                                                 | 18                        | 0.23                                           | <0.010                                         | 0.034                                    | <0.010                                         | 0.020                                         |
|                                                                                                                   |                                              |                                                                         |                                     |               |             |                                          |                   |                                    | Seed, dry                                                                                               | 58                        | <0.010                                         | 0.017                                          | 0.45                                     | <0.010                                         | 0.017                                         |
|                                                                                                                   |                                              |                                                                         |                                     |               |             |                                          |                   |                                    | rest of plant w/o roots                                                                                 | 58                        | 0.20                                           | <0.010                                         | 0.090                                    | 0.015                                          | 0.033                                         |
|                                                                                                                   |                                              |                                                                         |                                     |               |             |                                          |                   |                                    |                                                                                                         |                           |                                                |                                                |                                          |                                                |                                               |

| Report No.<br>Location<br>(EU-region)<br>trial No                                           | Commodity/<br>Variety                                  | Date of<br>1. Sowing<br>or<br>planting<br>2.<br>Flowering<br>3. Harvest  | Appli rate treatme<br>cation per nt |               |             | No. of<br>treatments<br>and last<br>date | RTI<br>(days<br>) | Growth<br>stage<br>at last<br>date | Portion analysed                                                                                        | DALA                      | Residu es (mg/kg)                              |                                                |                                                     |                                                          |                                                          |
|---------------------------------------------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------|---------------|-------------|------------------------------------------|-------------------|------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------|------------------------------------------------|------------------------------------------------|-----------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|
|                                                                                             |                                                        |                                                                          | kg<br>as/hL                         | Water<br>L/ha | kg<br>as/ha |                                          |                   |                                    |                                                                                                         |                           | BAS<br>750 F                                   | 1,2,4-T                                        | TA                                                  | TAA                                                      | TLA                                                      |
|                                                                                             |                                                        |                                                                          | -                                   | -             | -           | -                                        | -                 | -                                  | Whole plant, no roots<br>Seed, green<br>rest of plant w/o roots<br>Seed, dry<br>rest of plant w/o roots | 0<br>18<br>18<br>58<br>58 | <0.010<br><0.010<br><0.010<br><0.010<br><0.010 | <0.010<br><0.010<br><0.010<br>0.014<br><0.010  | 0.063<br><u>0.49</u><br>0.028<br>0.39<br>0.066      | <0.010<br><0.010<br><0.010<br><0.010<br>0.017            | 0.026<br><0.010<br>0.028<br>0.017<br>0.035               |
| #2020/2006189<br>57007<br>Chalkidona<br>Central<br>Macedonia<br>Greece<br>(S-EU)<br>L190253 | Bean (broad)<br>VD 0523<br>Super<br>aquadulce<br>VICFX | 1.<br>05.11.2018<br>2. 05.05.-<br>20.05.2019<br>3. 10.06.-<br>20.06.2019 | 0.048<br>75                         | 200           | 0.0975      | 2<br>03.05.2019                          | 10                | BBCH<br>72                         | Whole plant, no roots<br>Seed, green<br>rest of plant w/o roots<br>Seed, dry<br>rest of plant w/o roots | 0<br>6<br>6<br>38<br>38   | 5.4<br><0.010<br>0.89<br><0.010<br>0.36        | <0.010<br><0.010<br><0.010<br><0.010<br><0.010 | <0.010<br><u>0.060</u><br><0.010<br>0.053<br><0.010 | <0.010<br><u>&lt;0.010</u><br><0.010<br><0.010<br><0.010 | <0.010<br><u>&lt;0.010</u><br><0.010<br><0.010<br><0.010 |
|                                                                                             |                                                        |                                                                          |                                     |               |             |                                          |                   |                                    | Whole plant, no roots<br>Seed, green<br>rest of plant w/o roots<br>Seed, dry<br>rest of plant w/o roots | 0<br>6<br>6<br>38<br>38   | <0.010<br><0.010<br><0.010<br><0.010<br><0.010 | <0.010<br><0.010<br><0.010<br><0.010<br><0.010 | <0.010<br><0.010<br><0.010<br><0.010<br><0.010      | <0.010<br><0.010<br><0.010<br><0.010<br><0.010           | <0.010<br><0.010<br><0.010<br><0.010<br><0.010           |
|                                                                                             |                                                        |                                                                          |                                     |               |             |                                          |                   |                                    | Whole plant, no roots<br>Seed, green<br>rest of plant w/o roots<br>Seed, dry<br>rest of plant w/o roots | 0<br>6<br>6<br>38<br>38   | <0.010<br><0.010<br><0.010<br><0.010<br><0.010 | <0.010<br><0.010<br><0.010<br><0.010<br><0.010 | <0.010<br><0.010<br><0.010<br><0.010<br><0.010      | <0.010<br><0.010<br><0.010<br><0.010<br><0.010           | <0.010<br><0.010<br><0.010<br><0.010<br><0.010           |
|                                                                                             |                                                        |                                                                          |                                     |               |             |                                          |                   |                                    | Whole plant, no roots<br>Seed, green<br>rest of plant w/o roots<br>Seed, dry<br>rest of plant w/o roots | 0<br>6<br>6<br>38<br>38   | <0.010<br><0.010<br><0.010<br><0.010<br><0.010 | <0.010<br><0.010<br><0.010<br><0.010<br><0.010 | <0.010<br><0.010<br><0.010<br><0.010<br><0.010      | <0.010<br><0.010<br><0.010<br><0.010<br><0.010           | <0.010<br><0.010<br><0.010<br><0.010<br><0.010           |
|                                                                                             |                                                        |                                                                          |                                     |               |             |                                          |                   |                                    | Whole plant, no roots<br>Seed, green<br>rest of plant w/o roots<br>Seed, dry<br>rest of plant w/o roots | 0<br>14<br>14<br>67<br>67 | 3.5<br><0.010<br>0.68<br><0.010<br>0.19        | <0.010<br><0.010<br><0.010<br><0.010<br><0.010 | 0.011<br>0.11<br><0.010<br>0.088<br>0.014           | <0.010<br><0.010<br><0.010<br><0.010<br><0.010           | <0.010<br><0.010<br><0.010<br><0.010<br><0.010           |
|                                                                                             |                                                        |                                                                          |                                     |               |             |                                          |                   |                                    | Whole plant, no roots<br>Seed, green<br>rest of plant w/o roots<br>Seed, dry<br>rest of plant w/o roots | 0<br>14<br>14<br>67<br>67 | <0.010<br><0.010<br><0.010<br><0.010<br><0.010 | <0.010<br><0.010<br><0.010<br><0.010<br><0.010 | 0.011<br>0.078<br><0.010<br>0.050<br><0.010         | <0.010<br><0.010<br><0.010<br><0.010<br><0.010           | <0.010<br><0.010<br><0.010<br><0.010<br><0.010           |
|                                                                                             |                                                        |                                                                          |                                     |               |             |                                          |                   |                                    | Whole plant, no roots<br>Seed, green<br>rest of plant w/o roots<br>Seed, dry<br>rest of plant w/o roots | 0<br>14<br>14<br>67<br>67 | <0.010<br><0.010<br><0.010<br><0.010<br><0.010 | <0.010<br><0.010<br><0.010<br><0.010<br><0.010 | 0.011<br>0.078<br><0.010<br>0.050<br><0.010         | <0.010<br><0.010<br><0.010<br><0.010<br><0.010           | <0.010<br><0.010<br><0.010<br><0.010<br><0.010           |
|                                                                                             |                                                        |                                                                          |                                     |               |             |                                          |                   |                                    | Whole plant, no roots<br>Seed, green<br>rest of plant w/o roots<br>Seed, dry<br>rest of plant w/o roots | 0<br>14<br>14<br>67<br>67 | <0.010<br><0.010<br><0.010<br><0.010<br><0.010 | <0.010<br><0.010<br><0.010<br><0.010<br><0.010 | 0.011<br>0.078<br><0.010<br>0.050<br><0.010         | <0.010<br><0.010<br><0.010<br><0.010<br><0.010           | <0.010<br><0.010<br><0.010<br><0.010<br><0.010           |
|                                                                                             |                                                        |                                                                          |                                     |               |             |                                          |                   |                                    | Whole plant, no roots<br>Seed, green<br>rest of plant w/o roots<br>Seed, dry<br>rest of plant w/o roots | 0<br>14<br>14<br>67<br>67 | <0.010<br><0.010<br><0.010<br><0.010<br><0.010 | <0.010<br><0.010<br><0.010<br><0.010<br><0.010 | 0.011<br>0.078<br><0.010<br>0.050<br><0.010         | <0.010<br><0.010<br><0.010<br><0.010<br><0.010           | <0.010<br><0.010<br><0.010<br><0.010<br><0.010           |
|                                                                                             |                                                        |                                                                          |                                     |               |             |                                          |                   |                                    | Whole plant, no roots<br>Seed, green<br>rest of plant w/o roots<br>Seed, dry<br>rest of plant w/o roots | 0<br>14<br>14<br>67<br>67 | <0.010<br><0.010<br><0.010<br><0.010<br><0.010 | <0.010<br><0.010<br><0.010<br><0.010<br><0.010 | 0.011<br>0.078<br><0.010<br>0.050<br><0.010         | <0.010<br><0.010<br><0.010<br><0.010<br><0.010           | <0.010<br><0.010<br><0.010<br><0.010<br><0.010           |

The evaluation of new MRLs for mefentrifluconazole in or on various commodities

| Report No.<br>Location<br>(EU-region)<br>trial No                               | Commodity/<br>Variety                       | Date of<br>1. Sowing<br>or<br>planting<br>2.<br>Flowering<br>3. Harvest | Appli rate treatme<br>cation per nt |               |             | No. of<br>treatments<br>and last<br>date | RTI<br>(days<br>) | Growth<br>stage<br>at last<br>date | Portion analysed        | DALA | Residu<br>es (mg/kg) |                  |             |                  |                  |
|---------------------------------------------------------------------------------|---------------------------------------------|-------------------------------------------------------------------------|-------------------------------------|---------------|-------------|------------------------------------------|-------------------|------------------------------------|-------------------------|------|----------------------|------------------|-------------|------------------|------------------|
|                                                                                 |                                             |                                                                         | kg<br>as/hL                         | Water<br>L/ha | kg<br>as/ha |                                          |                   |                                    |                         |      | BAS<br>750 F         | 1,2,4-T          | TA          | TAA              | TLA              |
| #2020/2006189<br>41770<br>Montellano<br>Andalusia<br>Spain<br>(S-EU)<br>L190255 | Bean (broad)<br>VD 0523<br>Palacio<br>VICFX | 1.<br>17.12.2018                                                        | 0.048<br>75                         | 200           | 0.0975      | 2<br>12.04.2019                          | 10                | BBCH<br>72                         | Whole plant, no roots   | 0    | 3.3                  | <0.010           | 0.028       | <0.010           | 0.024            |
|                                                                                 |                                             | 2. 16.03.-                                                              |                                     |               |             |                                          |                   |                                    | Seed, green             | 20   | <u>&lt;0.010</u>     | <u>&lt;0.010</u> | 0.22        | <u>&lt;0.010</u> | <u>&lt;0.010</u> |
|                                                                                 |                                             | 02.04.2019                                                              |                                     |               |             |                                          |                   |                                    | rest of plant w/o roots | 20   | 0.50                 | <0.010           | <0.010      | <0.010           | 0.033            |
|                                                                                 |                                             | 3.                                                                      |                                     |               |             |                                          |                   |                                    | Seed, dry               | 39   | <0.010               | <0.010           | 0.12        | <0.010           | <0.010           |
|                                                                                 |                                             | 22.05.2019                                                              |                                     |               |             |                                          |                   |                                    | rest of plant w/o roots | 39   | 0.31                 | <0.010           | <0.010      | <0.010           | 0.031            |
|                                                                                 |                                             |                                                                         | -                                   | -             | -           | -                                        | -                 | -                                  | Whole plant, no roots   | 0    | <0.010               | <0.010           | 0.018       | <0.010           | 0.016            |
|                                                                                 |                                             |                                                                         |                                     |               |             |                                          |                   |                                    | Seed, green             | 20   | <0.010               | <0.010           | <u>0.24</u> | <0.010           | <0.010           |
|                                                                                 |                                             |                                                                         |                                     |               |             |                                          |                   |                                    | rest of plant w/o roots | 20   | <0.010               | <0.010           | <0.010      | <0.010           | 0.013            |
|                                                                                 |                                             |                                                                         |                                     |               |             |                                          |                   |                                    | Seed, dry               | 39   | <0.010               | <0.010           | 0.060       | <0.010           | <0.010           |
|                                                                                 |                                             |                                                                         |                                     |               |             |                                          |                   |                                    | rest of plant w/o roots | 39   | <0.010               | <0.010           | <0.010      | <0.010           | 0.023            |

#### C.3.1.2.4.2 Study 2

Reference: Study on the residue behaviour of BAS 750 F (Mefentrifluconazole) in beans (*Vicia faba*) after application of BAS 750 05 F under field conditions in Germany, The Netherlands, United Kingdom, Northern and Southern France, Greece, Italy and Spain, 2018, [REDACTED] 2019  
Study no.: AC/BASF/18/14, BASF DocID: 2019/1016886

Guideline(s): Regulation (EC) No. 1107/2009 of the European Parliament and the Council of 21 October 2009 concerning the placing of plant protection products on the market and repealing Council Directives 79/117/EEC and 91/414/EEC

European Community Guideline 7029/VI/95 - rev.5, 22/07/97: General recommendations for the design preparation and realization of residue trials.

European Community Guideline SANCO 7525/VI/95 - Rev. 10.3, 13 June 2017: Guidelines on comparability, extrapolation, group tolerances and data requirements for setting MRLs.

OECD Guideline for the testing of chemicals – Crop Field Trials: OECD/OCDE 509. Adopted 7 September 2009

Deviations: Yes

GLP: Yes

Validity of the study: Validated

#### Materials and methods

Eight trials on beans (broad) were conducted in Germany, the Netherlands, UK, northern and southern France, Greece, Italy and Spain using 'BAS 750 05 F', an SC formulation containing 75 g/L mefentrifluconazole, in the 2018 growing season.

'BAS 750 05 F' was applied as a foliar spray at a rate of 2 x 0.089 – 0.103 kg/ha mefentrifluconazole in 200 L/ha of water. Two applications were made with a 7-11 day RTI and with last application at BBCH 72, PHI was defined by application timing. The applications were within  $\pm 25\%$  of the proposed critical GAP (2 x 0.98kg/ha, PHI defined by last application timing, BBCH 50-72, RTI 10 days) except for the RTI which was lower than the critical GAP, this was acceptable because the residue levels of parent mefentrifluconazole and TDMs are comparable regardless of RTI within the range tested.

Therefore, the trials are considered to support the cGAP despite falling outside 25% of the notified GAP

Weather data were reported for the trials and no exceptional events were noted. The trials were decline trials, samples were taken at BBCH 72 (whole plant), 79 (seed and rest of plant) and 89 (seed and rest of plant). Samples containing at least 1 kg (seed and whole plant) or 0.5kg (rest of plant) were collected from both treated and control plots. Due to disease some samples of seed from one of the plots was <1kg, however, as sufficient sample was available for analysis, this is considered acceptable. Samples were frozen within 6 hours and stored at  $\leq -18^{\circ}\text{C}$  until analysis. The maximum storage interval between harvest and analysis for mefentrifluconazole was 229 days. Data was considered in the DAR which demonstrates stability of mefentrifluconazole for this period of time in high water crops when stored at  $\leq -18^{\circ}\text{C}$  (see EFSA 2018).

The maximum storage interval between harvest and analysis for TDMs was 168 days. Data was considered in the TDM Review (EFSA, 2018a) which demonstrates stability of TDMs for this period of time in high water crops when stored at  $\leq -18^{\circ}\text{C}$ .

Analysis for mefentrifluconazole was performed using LC-MS/MS (method L0076/09) with an LOQ of 0.01 mg/kg. Analysis for TDMs were performed using LC-DMS-MS/MS (method L0170/02) with an LOQ of 0.01 mg/kg per analyte.

## Results and Discussion

The analytical method for analysing residues of mefentrifluconazole (L0076/09) was satisfactorily validated in accordance with SANCO 3029/99 rev. 4 on high water commodities (UK, 2018b). The LOQ of the method is 0.01 mg/kg. The method was considered applicable to beans (without pods) as 7 procedural recoveries (mean recoveries of 82.6 -87.4%) were obtained across the 0.01, 0.1 and 10 mg/kg fortification levels for seeds, rest of plant (without roots) and whole plant (no roots).

The analytical method for analysing residues of TDMs (L0170/02) was satisfactorily validated in accordance with SANCO 3029/99 rev. 4 on high water commodities (UK 2018). The LOQ of the method is 0.01 mg/kg per analyte.

The method was considered applicable to beans (without pods) as at least 12 procedural recoveries (mean recoveries 83.9 – 99.2%) were obtained across the 0.01, 0.02, 0.05, 0.1 (all TDMs) and 10 mg/kg (TA only) for seeds. For whole plant (no roots) 7 procedural recoveries (mean recoveries 86.5 – 88.9%) were obtained across the 0.01, 0.1 and 10 mg/kg fortification levels for all TDMs. For rest of plant (without roots) 9 procedural recoveries (mean recoveries 83.0-94.8%) were obtained across the 0.01, 0.1 and 1.0 mg/kg fortification levels.

No residues of mefentrifluconazole, 1,2,4-T, TAA or TLA at or above the LOQ were detected in control samples of beans (without pods) for all trials. Residues of TA (up to 0.15 mg/kg) were found in all control samples of beans (without pods) from all trials.

Residues of mefentrifluconazole in bean seeds (without pods) were <0.01 mg/kg.

Residues of 1,2,4-T, TAA and TLA in beans seeds (without pods) were <0.01 mg/kg. Residues of TA in bean seeds (without pods) were between 0.016 and 0.25 mg/kg.

A summary of the residues trials is given in Table C.3.1.2.4.2-1.

**Table 3.1.2.4.2.1 Residue Trials on Beans**

|                              |                                                                                                                                                                                                                                                                                                                                        |                                  |                                                                     |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------------------------------------------|
| Reference:                   | Study on the residue behaviour of BAS 750 F (Mefentrifluconazole) in beans ( <i>Vicia faba</i> ) after application of BAS 750 05 F under field conditions in Germany, The Netherlands, United Kingdom, Northern and Southern France, Greece, Italy and Spain, 2018, [REDACTED] 2019 Study no.: AC/BASF/18/14, BASF DocID: 2019/1016886 |                                  |                                                                     |
| GLP:                         | Yes                                                                                                                                                                                                                                                                                                                                    | Sample storage conditions:       | Mefentrifluconazole<br>229 days, -18°C<br><br>TDMs: 168 days, -18°C |
| Crop/crop group:             | Beans / Legume vegetables                                                                                                                                                                                                                                                                                                              | Analytical method:               | L0076/09 and L0170/02, validated                                    |
| Indoor/outdoor:              | Outdoor                                                                                                                                                                                                                                                                                                                                | Limit of Quantification (mg/kg): | 0.01                                                                |
| Formulation:                 | SC                                                                                                                                                                                                                                                                                                                                     | Residues calculated as:          | Mefentrifluconazole, 1,2,4-T, TA, TAA and TLA                       |
| Content of active substance: | 75 g/L                                                                                                                                                                                                                                                                                                                                 |                                  |                                                                     |

The evaluation of new MRLs for mefentrifluconazole in or on various commodities

| Report No.<br>Location<br>(EU-region)<br>trial No                             | Commodity/<br>Variety              | Date of<br>1. Sowing<br>or<br>planting<br>2. Flowering<br>3. Harvest | Applica rate treatme<br>tion per nt |               |             | No. of<br>treatments<br>and last<br>date | RTI<br>(days<br>) | Growth<br>stage at<br>last date | Portion analysed         | DALA | Residu<br>es (mg/kg) |         |        |        |        |
|-------------------------------------------------------------------------------|------------------------------------|----------------------------------------------------------------------|-------------------------------------|---------------|-------------|------------------------------------------|-------------------|---------------------------------|--------------------------|------|----------------------|---------|--------|--------|--------|
|                                                                               |                                    |                                                                      | kg<br>as/hL                         | Water<br>L/ha | kg<br>as/ha |                                          |                   |                                 |                          |      | BAS 750 F            | 1,2,4-T | TA     | TAA    | TLA    |
| 2019/1016886<br>16833<br>Lentzke<br>Germany<br>(N-EU)<br>L180240              | VD 0523<br>Fuego<br>Bean (broad)   | 1.<br>27.03.2018<br>2. 15.05.-<br>04.06.2018<br>3. 17.07.2018        | 0.0488                              | 200           | 0.0975      | 2<br>11.06.2018                          | 7                 | BBCH<br>72                      | Whole plant (no roots)   | 0    | 2.4                  | <0.010  | <0.010 | <0.010 | <0.010 |
|                                                                               |                                    |                                                                      |                                     |               |             |                                          |                   |                                 | Seed                     | 10   | <0.010               | <0.010  | 0.062  | <0.010 | <0.010 |
|                                                                               |                                    |                                                                      |                                     |               |             |                                          |                   |                                 | Rest of plants w/o roots | 10   | 1.9                  | <0.010  | <0.010 | <0.010 | <0.010 |
|                                                                               |                                    |                                                                      |                                     |               |             |                                          |                   |                                 | Seed                     | 36   | <0.010               | <0.010  | 0.047  | <0.010 | <0.010 |
|                                                                               |                                    |                                                                      |                                     |               |             |                                          |                   |                                 | Rest of plant w/o roots  | 36   | 0.71                 | <0.010  | <0.010 | <0.010 | <0.010 |
|                                                                               |                                    |                                                                      | -                                   | -             | -           | -                                        | -                 | -                               | Whole plant (no roots)   | 0    | <0.010               | <0.010  | <0.010 | <0.010 | <0.010 |
|                                                                               |                                    |                                                                      |                                     |               |             |                                          |                   |                                 | Seed                     | 10   | <0.010               | <0.010  | 0.042  | <0.010 | <0.010 |
|                                                                               |                                    |                                                                      |                                     |               |             |                                          |                   |                                 | Rest of plants w/o roots | 10   | <0.010               | <0.010  | <0.010 | <0.010 | <0.010 |
|                                                                               |                                    |                                                                      |                                     |               |             |                                          |                   |                                 | Seed                     | 36   | <0.010               | <0.010  | 0.031  | <0.010 | <0.010 |
|                                                                               |                                    |                                                                      |                                     |               |             |                                          |                   |                                 | Rest of plant w/o roots  | 36   | <0.010               | <0.010  | <0.010 | <0.010 | <0.010 |
| 2019/1016886<br>6674 AG<br>Herveld<br>The<br>Netherlands<br>(N-EU)<br>L180241 | VD 0523<br>Imposa<br>Bean (broad)  | 1.<br>09.03.2018<br>2. 18.05.-<br>02.06.2018<br>3. 25.07.2018        | 0.0488                              | 200           | 0.0975      | 2<br>11.06.2018                          | 10                | BBCH<br>72                      | Whole plant (no roots)   | 0    | 1.7                  | <0.010  | 0.049  | <0.010 | 0.012  |
|                                                                               |                                    |                                                                      |                                     |               |             |                                          |                   |                                 | Seed                     | 31   | <0.010               | <0.010  | 0.18   | <0.010 | <0.010 |
|                                                                               |                                    |                                                                      |                                     |               |             |                                          |                   |                                 | Rest of plants w/o roots | 31   | 0.14                 | <0.010  | <0.010 | <0.010 | 0.013  |
|                                                                               |                                    |                                                                      |                                     |               |             |                                          |                   |                                 | Seed                     | 44   | <0.010               | <0.010  | 0.16   | <0.010 | <0.010 |
|                                                                               |                                    |                                                                      |                                     |               |             |                                          |                   |                                 | Rest of plant w/o roots  | 44   | 0.19                 | <0.010  | <0.010 | <0.010 | 0.025  |
|                                                                               |                                    |                                                                      | -                                   | -             | -           | -                                        | -                 | -                               | Whole plant (no roots)   | 0    | <0.010               | <0.010  | 0.059  | <0.010 | 0.012  |
|                                                                               |                                    |                                                                      |                                     |               |             |                                          |                   |                                 | Seed                     | 31   | <0.010               | <0.010  | 0.16   | <0.010 | <0.010 |
|                                                                               |                                    |                                                                      |                                     |               |             |                                          |                   |                                 | Rest of plants w/o roots | 31   | <0.010               | <0.010  | <0.010 | <0.010 | 0.023  |
|                                                                               |                                    |                                                                      |                                     |               |             |                                          |                   |                                 | Seed                     | 44   | <0.010               | <0.010  | 0.17   | <0.010 | <0.010 |
|                                                                               |                                    |                                                                      |                                     |               |             |                                          |                   |                                 | Rest of plant w/o roots  | 44   | <0.010               | <0.010  | 0.011  | <0.010 | 0.044  |
| 2019/1016886<br>Manningtree<br>United<br>Kingdom<br>L180242                   | VD 0523<br>Vertigo<br>Bean (broad) | 1.<br>24.04.2018<br>2. 20.05.-<br>15.06.2018<br>3. 20.08.2018        | 0.0488                              | 200           | 0.0975      | 2<br>23.07.2018                          | 10                | BBCH<br>72                      | Whole plant (no roots)   | 0    | 3.5                  | <0.010  | <0.010 | <0.010 | <0.010 |
|                                                                               |                                    |                                                                      |                                     |               |             |                                          |                   |                                 | Seed                     | 10   | <0.010               | <0.010  | 0.016  | <0.010 | <0.010 |
|                                                                               |                                    |                                                                      |                                     |               |             |                                          |                   |                                 | Rest of plants w/o roots | 10   | 1.4                  | <0.010  | <0.010 | <0.010 | <0.010 |
|                                                                               |                                    |                                                                      |                                     |               |             |                                          |                   |                                 | Seed                     | 28   | <0.010               | <0.010  | 0.021  | <0.010 | <0.010 |
|                                                                               |                                    |                                                                      |                                     |               |             |                                          |                   |                                 | Rest of plant w/o roots  | 28   | 1.5                  | <0.010  | <0.010 | <0.010 | <0.010 |
|                                                                               |                                    |                                                                      |                                     |               |             |                                          |                   |                                 |                          |      |                      |         |        |        |        |

The evaluation of new MRLs for mefentrifluconazole in or on various commodities

| Report No.<br>Location<br>(EU-region)<br>trial No                             | Commodity/<br>Variety               | Date of<br>1. Sowing<br>or<br>planting<br>2. Flowering<br>3. Harvest | Applica rate treatme<br>tion per nt |               |             | No. of<br>treatments<br>and last<br>date | RTI<br>(days<br>) | Growth<br>stage at<br>last date | Portion analysed                                                                              | DALA                      | Residu<br>es (mg/kg)                           |                                                |                                                 |                                                |                                                         |
|-------------------------------------------------------------------------------|-------------------------------------|----------------------------------------------------------------------|-------------------------------------|---------------|-------------|------------------------------------------|-------------------|---------------------------------|-----------------------------------------------------------------------------------------------|---------------------------|------------------------------------------------|------------------------------------------------|-------------------------------------------------|------------------------------------------------|---------------------------------------------------------|
|                                                                               |                                     |                                                                      | kg<br>as/hL                         | Water<br>L/ha | kg<br>as/ha |                                          |                   |                                 |                                                                                               |                           | BAS 750 F                                      | 1,2,4-T                                        | TA                                              | TAA                                            | TLA                                                     |
|                                                                               |                                     |                                                                      | -                                   | -             | -           | -                                        | -                 | -                               | Whole plant (no roots)<br>Seed<br>Rest of plants w/o roots<br>Seed<br>Rest of plant w/o roots | 0<br>10<br>10<br>28<br>28 | <0.010<br><0.010<br><0.010<br><0.010<br><0.010 | <0.010<br><0.010<br><0.010<br><0.010<br><0.010 | <0.010<br>0.014<br><0.010<br>0.016<br><0.010    | <0.010<br><0.010<br><0.010<br><0.010<br><0.010 | <0.010<br><0.010<br><0.010<br><0.010<br><0.010          |
| 2019/1016886<br>59189<br>Steenbecq<br>Northern<br>France<br>(N-EU)<br>L180243 | VD 0523<br>Espresso<br>Bean (broad) | 1.<br>05.05.2018<br>2. 25.06.-<br>30.07.2018<br>3.<br>14.09.2018     | 0.0488                              | 200           | 0.0975      | 2<br>06.08.2018                          | 10                | BBCH<br>72                      | Whole plant (no roots)<br>Seed<br>Rest of plants w/o roots<br>Seed<br>Rest of plant w/o roots | 0<br>7<br>7<br>38<br>38   | 2.7<br><0.010<br>0.50<br><0.010<br>0.61        | <0.010<br><0.010<br><0.010<br><0.010<br><0.010 | 0.031<br>0.15<br>0.021<br>0.20<br>0.048         | <0.010<br><0.010<br><0.010<br><0.010<br>0.018  | 0.011<br><0.010<br>0.013<br><0.010<br><0.010            |
|                                                                               |                                     |                                                                      |                                     |               |             |                                          |                   |                                 | Whole plant (no roots)<br>Seed<br>Rest of plants w/o roots<br>Seed<br>Rest of plant w/o roots | 0<br>7<br>7<br>38<br>38   | <0.010<br><0.010<br><0.010<br><0.010<br><0.010 | <0.010<br><0.010<br><0.010<br><0.010<br><0.010 | 0.022<br>0.11<br>0.012<br>0.12<br>0.026         | <0.010<br><0.010<br><0.010<br><0.010<br><0.010 | <0.010<br><0.010<br><0.010<br><0.010<br><0.010          |
|                                                                               |                                     |                                                                      | 0.0488                              | 200           | 0.0975      | 2<br>29.05.2018                          | 11                | BBCH<br>72                      | Whole plant (no roots)<br>Seed<br>Rest of plants w/o roots<br>Seed<br>Rest of plant w/o roots | 0<br>17<br>17<br>50<br>50 | 1.7<br><0.010<br>0.081<br><0.010<br>0.17       | <0.010<br><0.010<br><0.010<br><0.010<br><0.010 | 0.053<br><u>0.25</u><br><0.010<br>0.27<br>0.021 | <0.010<br><0.010<br><0.010<br><0.010<br>0.011  | <0.010<br><u>&lt;0.010</u><br><0.010<br><0.010<br>0.014 |
|                                                                               |                                     |                                                                      |                                     |               |             |                                          |                   |                                 | Whole plant (no roots)<br>Seed<br>Rest of plants w/o roots<br>Seed<br>Rest of plant w/o roots | 0<br>17<br>17<br>50<br>50 | <0.010<br><0.010<br><0.010<br><0.010<br><0.010 | <0.010<br><0.010<br><0.010<br><0.010<br><0.010 | 0.029<br>0.15<br><0.010<br>0.16<br>0.011        | <0.010<br><0.010<br><0.010<br><0.010<br><0.010 | <0.010<br><0.010<br><0.010<br><0.010<br>0.013           |
|                                                                               |                                     |                                                                      |                                     |               |             |                                          |                   |                                 | Whole plant (no roots)<br>Seed<br>Rest of plants w/o roots<br>Seed<br>Rest of plant w/o roots | 0<br>17<br>17<br>50<br>50 | <0.010<br><0.010<br><0.010<br><0.010<br><0.010 | <0.010<br><0.010<br><0.010<br><0.010<br><0.010 | 0.029<br>0.15<br><0.010<br>0.16<br>0.011        | <0.010<br><0.010<br><0.010<br><0.010<br><0.010 | <0.010<br><0.010<br><0.010<br><0.010<br>0.013           |
|                                                                               |                                     |                                                                      |                                     |               |             |                                          |                   |                                 | Whole plant (no roots)<br>Seed<br>Rest of plants w/o roots<br>Seed<br>Rest of plant w/o roots | 0<br>17<br>17<br>50<br>50 | <0.010<br><0.010<br><0.010<br><0.010<br><0.010 | <0.010<br><0.010<br><0.010<br><0.010<br><0.010 | 0.029<br>0.15<br><0.010<br>0.16<br>0.011        | <0.010<br><0.010<br><0.010<br><0.010<br><0.010 | <0.010<br><0.010<br><0.010<br><0.010<br>0.013           |
|                                                                               |                                     |                                                                      |                                     |               |             |                                          |                   |                                 | Whole plant (no roots)<br>Seed<br>Rest of plants w/o roots<br>Seed<br>Rest of plant w/o roots | 0<br>17<br>17<br>50<br>50 | <0.010<br><0.010<br><0.010<br><0.010<br><0.010 | <0.010<br><0.010<br><0.010<br><0.010<br><0.010 | 0.029<br>0.15<br><0.010<br>0.16<br>0.011        | <0.010<br><0.010<br><0.010<br><0.010<br><0.010 | <0.010<br><0.010<br><0.010<br><0.010<br>0.013           |
|                                                                               |                                     |                                                                      |                                     |               |             |                                          |                   |                                 | Whole plant (no roots)<br>Seed<br>Rest of plants w/o roots<br>Seed<br>Rest of plant w/o roots | 0<br>17<br>17<br>50<br>50 | <0.010<br><0.010<br><0.010<br><0.010<br><0.010 | <0.010<br><0.010<br><0.010<br><0.010<br><0.010 | 0.029<br>0.15<br><0.010<br>0.16<br>0.011        | <0.010<br><0.010<br><0.010<br><0.010<br><0.010 | <0.010<br><0.010<br><0.010<br><0.010<br>0.013           |

The evaluation of new MRLs for mefentrifluconazole in or on various commodities

| Report No.<br>Location<br>(EU-region)<br>trial No                  | Commodity/<br>Variety                         | Date of<br>1. Sowing<br>or<br>planting<br>2. Flowering<br>3. Harvest     | Applica rate treatme<br>tion per nt |               |             | No. of<br>treatments<br>and last<br>date | RTI<br>(days<br>) | Growth<br>stage at<br>last date | Portion analysed         | DALA | Residu<br>es (mg/kg) |         |             |        |        |
|--------------------------------------------------------------------|-----------------------------------------------|--------------------------------------------------------------------------|-------------------------------------|---------------|-------------|------------------------------------------|-------------------|---------------------------------|--------------------------|------|----------------------|---------|-------------|--------|--------|
|                                                                    |                                               |                                                                          | kg<br>as/hL                         | Water<br>L/ha | kg<br>as/ha |                                          |                   |                                 |                          |      | BAS 750 F            | 1,2,4-T | TA          | TAA    | TLA    |
| 2019/1016886<br>58100 Pella<br>Greece<br>(S-EU)<br>L180245         | VP 0523<br>Super<br>Aquadulce<br>Bean (broad) | 1.<br>12.12.2017<br>2. 10.04.-<br>10.05.2018<br>3. 10.05.-<br>16.06.2018 | 0.0488                              | 200           | 0.0975      | 2<br>03.05.2018                          | 10                | BBCH<br>72                      | Whole plant (no roots)   | 0    | 1.6                  | <0.010  | 0.018       | <0.010 | <0.010 |
|                                                                    |                                               |                                                                          |                                     |               |             |                                          |                   |                                 | Seed                     | 19   | <0.010               | <0.010  | <u>0.11</u> | <0.010 | <0.010 |
|                                                                    |                                               |                                                                          |                                     |               |             |                                          |                   |                                 | Rest of plants w/o roots | 19   | 0.066                | <0.010  | <0.010      | <0.010 | <0.010 |
|                                                                    |                                               |                                                                          |                                     |               |             |                                          |                   |                                 | Seed                     | 39   | <0.010               | <0.010  | 0.14        | <0.010 | <0.010 |
|                                                                    |                                               |                                                                          |                                     |               |             |                                          |                   |                                 | Rest of plant w/o roots  | 39   | 0.060                | <0.010  | 0.023       | <0.010 | <0.010 |
|                                                                    |                                               |                                                                          | -                                   | -             | -           | -                                        | -                 | -                               | Whole plant (no roots)   | 0    | <0.010               | <0.010  | <0.010      | <0.010 | <0.010 |
|                                                                    |                                               |                                                                          |                                     |               |             |                                          |                   |                                 | Seed                     | 19   | <0.010               | <0.010  | 0.035       | <0.010 | <0.010 |
|                                                                    |                                               |                                                                          |                                     |               |             |                                          |                   |                                 | Rest of plants w/o roots | 19   | <0.010               | <0.010  | <0.010      | <0.010 | <0.010 |
| 2019/1016886<br>70022<br>Altamura<br>Italy<br>(S-EU)<br>L180246    | VD 0523<br>Aquadulce<br>Bean (broad)          | 1.<br>15.01.2018<br>2. 20.04.-<br>02.05.2018<br>3.<br>30.05.2018         | 0.0488                              | 200           | 0.0975      | 2<br>18.05.2018                          | 10                | BBCH<br>72                      | Whole plant (no roots)   | 0    | 3.4                  | <0.010  | 0.065       | <0.010 | 0.015  |
|                                                                    |                                               |                                                                          |                                     |               |             |                                          |                   |                                 | Seed                     | 12   | <0.010               | <0.010  | 0.20        | <0.010 | <0.010 |
|                                                                    |                                               |                                                                          |                                     |               |             |                                          |                   |                                 | Seed                     | 38   | <0.010               | <0.010  | 0.17        | <0.010 | <0.010 |
|                                                                    |                                               |                                                                          |                                     |               |             |                                          |                   |                                 | Whole plant (no roots)   | 02   | <0.010               | <0.010  | 0.031       | <0.010 | <0.010 |
|                                                                    |                                               |                                                                          |                                     |               |             |                                          |                   |                                 | Seed                     | 12   | <0.010               | <0.010  | 0.066       | <0.010 | <0.010 |
|                                                                    |                                               |                                                                          |                                     |               |             |                                          |                   |                                 | Seed                     | 38   | <0.010               | <0.010  | 0.13        | <0.010 | <0.010 |
|                                                                    |                                               |                                                                          | -                                   | -             | -           | -                                        | -                 | -                               | Whole plant (no roots)   | 0    | 2.7                  | <0.010  | 0.012       | <0.010 | <0.010 |
|                                                                    |                                               |                                                                          |                                     |               |             |                                          |                   |                                 | Seed                     | 15   | <0.010               | <0.010  | 0.12        | <0.010 | <0.010 |
| 2019/1016886<br>11650<br>Villamartin<br>Spain<br>(S-EU)<br>L180247 | VD 0523<br>Palacio<br>Bean (broad)            | 1.<br>15.12.2017<br>2. 04.04.-<br>28.04.2018<br>3.<br>17.06.2018         | 0.0488                              | 200           | 0.0975      | 2<br>07.05.2018                          | 10                | BBCH<br>72                      | Rest of plants w/o roots | 15   | 0.87                 | <0.010  | <0.010      | <0.010 | <0.010 |
|                                                                    |                                               |                                                                          |                                     |               |             |                                          |                   |                                 | Seed                     | 39   | <0.010               | <0.010  | 0.071       | <0.010 | <0.010 |
|                                                                    |                                               |                                                                          |                                     |               |             |                                          |                   |                                 | Rest of plant w/o roots  | 39   | 1.9                  | <0.010  | <0.010      | <0.010 | <0.010 |
|                                                                    |                                               |                                                                          |                                     |               |             |                                          |                   |                                 | Whole plant (no roots)   | 0    | <0.010               | <0.010  | <0.010      | <0.010 | <0.010 |
|                                                                    |                                               |                                                                          | -                                   | -             | -           | -                                        | -                 | -                               | Seed                     | 15   | <0.010               | <0.010  | 0.029       | <0.010 | <0.010 |
|                                                                    |                                               |                                                                          |                                     |               |             |                                          |                   |                                 | Rest of plants w/o roots | 15   | <0.010               | <0.010  | <0.010      | <0.010 | <0.010 |
|                                                                    |                                               |                                                                          |                                     |               |             |                                          |                   |                                 | Seed                     | 39   | <0.010               | <0.010  | 0.019       | <0.010 | <0.010 |
|                                                                    |                                               |                                                                          |                                     |               |             |                                          |                   |                                 | Rest of plant w/o roots  | 39   | <0.010               | <0.010  | <0.010      | <0.010 | <0.010 |

### **C.3.1.2.5 Celery**

#### **C.3.1.2.5.1 Study 1**

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reference:             | Study on the residue behaviour of Mefentrifluconazole (BAS 750 F) in celery after application of BAS 750 05 F under field conditions in Southern Europe, 2019, [REDACTED] 2020, Study ID: 877937, BASF DocID: 2020/2080724                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Guidelines:            | <p>Regulation (EC) no. 1107/2009 of the European Parliament and of the Council of 21 October 2009 concerning the placing of plant protection products on the market and repealing Council Directives 79/117/EEC and 91/414/EEC</p> <p>European Community Guideline 7029/VI/95 - rev.5, 22/07/97: General recommendations for the design preparation and realization of residue trials.</p> <p>European Community Guideline SANCO 7525/VI/95 - rev.10.3, June 2017: Comparability, extrapolation, group tolerances and data requirements for setting MRLs.</p> <p>OECD Guideline for the testing of chemicals – Crop Field Trials: OECD/OCDE 509. Adopted 7 September 2009</p> <p>Directive 2004/10/EC of 11th February 2004)</p> |
| Deviations:            | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| GLP:                   | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Validity of the study: | Validated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

### **Materials and methods**

Two trials on celery were conducted in Italy and Spain (SEU) using 'BAS 750 05 F', an SC formulation containing 75 g/L mefentrifluconazole, in the 2019 growing season.

'BAS 750 05 F' was applied as a foliar spray at a nominal rate of 3 x 0.1125 kg/ha mefentrifluconazole in 500 L/ha of water. Three applications were made with a 14 day RTI and with last application at BBCH 45, the PHI was 7 days. . The BBCH at last application is slightly lower than the BBCH specified in the critical GAP, however it is in the same principal growth stage, and the RTIs and PHIs used match the notified GAP.

The applications support the notified critical GAP (3 x 0.113 kg a.s./ha, BBCH 21-49, 7 day PHI, 14 day RTI).

Weather data were reported for the trials and no exceptional events were noted. The trials were decline trials, samples of celery stalks with foliage were taken at 3, 7 and 14/15 days after last application. Samples of celery whole plant (no roots) were also taken 0 days after last application. Samples containing at least 0.5 kg were collected from both treated and control plots. Samples were frozen within 12 hours and stored at  $\leq -18^{\circ}\text{C}$  until analysis. The maximum storage interval between harvest and analysis for mefentrifluconazole was 147 days. Data was considered in the DAR which demonstrates stability of mefentrifluconazole for this period of time in high water crops when stored at  $\leq -18^{\circ}\text{C}$ . (EFSA, 2018b). The maximum storage interval between harvest and analysis for TDMs was 128 days. Data was considered in the TDM Review (EFSA, 2018a) which demonstrates stability of TDMs for this period of time in high water crops when stored at  $\leq -18^{\circ}\text{C}$ . Analysis for mefentrifluconazole was performed using LC-MS/MS (method L0076/09) with an LOQ of 0.01 mg/kg. Analysis for TDMs were performed using LC-DMS-MS/MS (method L0170/02) with an LOQ of 0.01 mg/kg per analyte.

## Results and Discussion

The analytical method for analysing residues of mefentrifluconazole (L0076/09) was satisfactorily validated in accordance with SANCO 3029/99 rev. 4 on high water commodities (UK, 2018b). The LOQ of the method is 0.01 mg/kg. The method was considered applicable to celeries as 5 procedural recoveries were provided for both the 0.01 (mean recoveries 74.8 – 79.6%) and 0.1 (mean recoveries 79.3 – 81.0%) mg/kg fortification levels for both celery (whole plant (no roots)) and celery (stalks with foliage). One procedural recovery was also provided at the 3.6 mg/kg fortification level for celery (whole plant (no roots)) (87.1%) and the 2.8 mg/kg fortification level for celery (stalks with foliage) (81.4%).

The analytical method for analysing residues of TDMs (L0170/02) was satisfactorily validated in accordance with SANCO 3029/99 rev. 4 on high water commodities (UK, 2018a). The LOQ of the method is 0.01 mg/kg per analyte. The method was considered applicable to celeries as 3 procedural recoveries were provided for both the 0.01 (mean recoveries 82 – 99.8%) and 0.1 (mean recoveries 88.4 – 96.8%) mg/kg fortification levels for both celery (whole plant (no roots)) and celery (stalks with foliage) for all TDMs.

No residues of mefentrifluconazole, 1,2,4-T, TA or TLA at or above the LOQ were detected in control samples for all trials. Residues of TAA (up to 0.018 mg/kg) were found in one control sample from one trial.

Residues of mefentrifluconazole in celery stalks with foliage at 7 days after last application were between 0.45 - 0.75 mg/kg.

Residues of 1,2,4-T in celery stalks with foliage at 7 days after last application were  $<0.01$  mg/kg.

Residues of TA in celery stalks with foliage at 7 days after last application were between 0.021 – 0.033 mg/kg.

Residues of TAA in celery stalks with foliage at 7 days after last application were 0.01 – 0.016 mg/kg.

Residues of TLA in celery stalks with foliage at 7 days after last application were <0.01 mg/kg.

A summary of the residues trials is given in Table C.3.1.2.5.1-1.

**Table 3.1.2.5.1-1 Residue trials on celery**

Reference: Study on the residue behaviour of Mefentrifluconazole (BAS 750 F) in celery after application of BAS 750 05 F under field conditions in Southern Europe, 2019, ██████████ 2020, Study ID: 877937, BASF DocID: 2020/2080724

GLP: Yes Sample storage conditions: Mefentrifluconazole: 147 days at -18°C  
TDMs: 128 days at -18°C

Crop/crop group: Celery/  
Stem Vegetables Analytical method: L0076/09 and L0170/02, validated

Indoor/outdoor: Outdoor Limit of Quantification (mg/kg): 0.01

Formulation: SC Residues calculated as: Mefentrifluconazole, 1,2,4-T, TA, TAA and TLA

Content of active substance: 75 g/L

| Report No.<br>Location<br>(EU-region)<br>trial No | Commodity<br>/<br>Variety | Date of<br>1. Sowing or<br>planting<br><br>2.<br>Flowering<br>3. Harvest | Applicat ion rate per<br>treatme nt |               |             | No. of<br>treat-<br>ments and<br><br>last date | RTI<br>(da<br>ys) | Growth<br>stage<br>at last<br><br>date | Portion analysed | DALA<br>(days) | Residu es (mg/k<br>g) |         |    |     |     |
|---------------------------------------------------|---------------------------|--------------------------------------------------------------------------|-------------------------------------|---------------|-------------|------------------------------------------------|-------------------|----------------------------------------|------------------|----------------|-----------------------|---------|----|-----|-----|
|                                                   |                           |                                                                          | kg<br>as/hL                         | Water<br>L/ha | kg<br>as/ha |                                                |                   |                                        |                  |                | BAS<br>750 F          | 1,2,4-T | TA | TLA | TAA |

The evaluation of new MRLs for mefentrifluconazole in or on various commodities

|                                                                                   |                                         |                                                         |        |     |        |                 |    |            |                       |    |             |                  |              |                  |                  |
|-----------------------------------------------------------------------------------|-----------------------------------------|---------------------------------------------------------|--------|-----|--------|-----------------|----|------------|-----------------------|----|-------------|------------------|--------------|------------------|------------------|
| 2020/20807<br>24<br>IT-71042<br>Cerignola<br>Foggia<br>Italy<br>(S-EU)<br>L190291 | Celery<br>VS 0624<br>APUGV<br>Tall Utah | 1. 07.09.2019<br>2. n.a.<br>3.<br>21.11./30.11.<br>2019 | 0.0225 | 500 | 0.1125 | 3<br>14.11.2019 | 14 | BBCH<br>45 | Whole plant, no roots | 0  | 3.3         | <0.010           | 0.016        | <0.010           | <0.010           |
|                                                                                   |                                         |                                                         |        |     |        |                 |    |            | Stalks with foliage   | 3  | 2.6         | <0.010           | 0.016        | <0.010           | <0.010           |
|                                                                                   |                                         |                                                         |        |     |        |                 |    |            | Stalks with foliage   | 7  | <u>0.75</u> | <u>&lt;0.010</u> | 0.014        | <u>&lt;0.010</u> | <u>&lt;0.010</u> |
|                                                                                   |                                         |                                                         |        |     |        |                 |    |            | Stalks with foliage   | 14 | 0.35        | <0.010           | <u>0.021</u> | <0.010           | <0.010           |
|                                                                                   |                                         |                                                         | -      | -   | -      | -               | -  | -          | Whole plant, no roots | 0  | <0.010      | <0.010           | <0.010       | <0.010           | <0.010           |
|                                                                                   |                                         |                                                         |        |     |        |                 |    |            | Stalks with foliage   | 3  | <0.010      | <0.010           | <0.010       | <0.010           | <0.010           |
|                                                                                   |                                         |                                                         |        |     |        |                 |    |            | Stalks with foliage   | 7  | <0.010      | <0.010           | <0.010       | <0.010           | <0.010           |
|                                                                                   |                                         |                                                         |        |     |        |                 |    |            | Stalks with foliage   | 14 | <0.010      | <0.010           | <0.010       | <0.010           | <0.010           |
| 2020/20807<br>24<br>ES-41710<br>Utrera<br>Sevilla<br>Spain<br>(S-EU)<br>L190292   | Celery<br>VS 0624<br>APUGV<br>Imperial  | 1. 30.04.2019<br>2. n.a.<br>3.<br>08.08./10.08.<br>2019 | 0.0225 | 500 | 0.1125 | 3<br>22.07.2019 | 14 | BBCH<br>45 | Whole plant, no roots | 0  | 3.3         | <0.010           | 0.015        | 0.015            | <0.010           |
|                                                                                   |                                         |                                                         |        |     |        |                 |    |            | Stalks with foliage   | 3  | 0.31        | <0.010           | 0.015        | <0.010           | <0.010           |
|                                                                                   |                                         |                                                         |        |     |        |                 |    |            | Stalks with foliage   | 7  | <u>0.45</u> | <u>&lt;0.010</u> | 0.021        | <u>0.016</u>     | <u>&lt;0.010</u> |
|                                                                                   |                                         |                                                         |        |     |        |                 |    |            | Stalks with foliage   | 15 | 0.18        | <0.010           | <u>0.033</u> | <0.010           | <0.010           |
|                                                                                   |                                         |                                                         | -      | -   | -      | -               | -  | -          | Whole plant, no roots | 0  | <0.010      | <0.010           | <0.010       | 0.018            | <0.010           |
|                                                                                   |                                         |                                                         |        |     |        |                 |    |            | Stalks with foliage   | 3  | <0.010      | <0.010           | <0.010       | <0.010           | <0.010           |
|                                                                                   |                                         |                                                         |        |     |        |                 |    |            | Stalks with foliage   | 7  | <0.010      | <0.010           | <0.010       | <0.010           | <0.010           |
|                                                                                   |                                         |                                                         |        |     |        |                 |    |            | Stalks with foliage   | 15 | <0.010      | <0.010           | <0.010       | <0.010           | <0.010           |

#### C.3.1.2.5.2 Study 2

Reference: Study on the residue behaviour of Mefentrifluconazole (BAS 750 F) in celery after three applications with BAS 750 11 F under field conditions in Southern Europe, 2020, [REDACTED], 2021, Study ID: 884418, BASF DocID: 2021/2023393

Guidelines: OECD (2009) Guidance Document on Overview of Residue Chemistry Studies (Series on Testing and Assessment No. 64 and Series on Pesticides No. 32)

OECD Test Guideline 509: Crop field trial

OECD (2016) Guidance Document ENV/JM/MONO(2011)50/REV1, Second Edition, on Crop Field Trials (Series on Testing and Assessment No. 164 and Series on Pesticides No. 66)

EC (1997) Guidance Document 7029/VI/95 (rev. 5)

EC Guidance Document SANCO/3029/99 rev. 4

European Community Guideline 7525/VI/95 - rev.10.3, June 2017: Comparability, extrapolation, group tolerances and data requirements for setting MRLs)

Deviations: No

GLP: Yes

Validity of the study: Validated

#### Materials and methods

Two trials on celery were conducted in Italy and Spain using 'BAS 750 11 F', an SC formulation containing 75 g/L mefentrifluconazole, in the 2020 growing season.

'BAS 750 11 F' was applied as a foliar spray at a nominal rate of 3 x 0.1125 kg/ha mefentrifluconazole (actual: 3 x 0.113 – 0.123 kg a.s./ha) in 500-656 L/ha of water. Three applications were made with a 14 day RTI and with last application at BBCH 39-45, the PHI was 7 days. The BBCH at last application is slightly lower than the BBCH specified in the critical GAP, however as the RTIs and PHIs used match the notified GAP, this is considered acceptable.

The applications support the notified critical GAP (3 x 0.113 kg a.s./ha, BBCH 21-49, 7 day PHI, 14 day RTI).

Weather data were reported for the trials and no exceptional events were noted. The trials were decline trials, samples of celery stalks with foliage were taken at 2/3, 7 and 13 days after last application. Samples of celery whole plant (no roots) were also taken 0 days after last application. Samples containing at least 0.5 kg were collected from both treated and control plots. Samples were frozen within 12 hours and stored at  $\leq -18^{\circ}\text{C}$  until analysis. The maximum storage interval for mefentrifluconazole between harvest and analysis was 235 days. Data was considered in the DAR which demonstrates stability of mefentrifluconazole for this period of time in high water crops when stored at  $\leq -18^{\circ}\text{C}$  (EFSA, 2018b). The maximum storage interval between harvest and analysis for TDMs was 160 days. Data was considered in the TDM Review (EFSA, 2018a) which demonstrates stability of TDMs for this period of time in high water crops when stored at  $\leq -18^{\circ}\text{C}$ .

Analysis for mefentrifluconazole was performed using LC-MS/MS (method L0076/09) with an LOQ of 0.01 mg/kg. Analysis for TDMs were performed using LC-DMS-MS/MS (method L0170/02) with an LOQ of 0.01 mg/kg per analyte.

## Results and Discussion

The analytical method for analysing residues of mefentrifluconazole (L0076/09) was satisfactorily validated in accordance with SANCO 3029/99 rev. 4 on high water commodities (UK, 2018b). The LOQ of the method is 0.01 mg/kg. The method was considered applicable to celeries as 7 procedural recoveries (mean recoveries 88.8-89.6 %) were provided across the 0.01 and 0.1 and 10.0 mg/kg fortification levels for both celery (whole plant (no roots)) and celery (stalks with foliage).

The analytical method for analysing residues of TDMs (L0170/02) was satisfactorily validated in accordance with SANCO 3029/99 rev. 4 on high water commodities (UK, 2018a). The LOQ of the method is 0.01 mg/kg per analyte. The method was considered applicable to celeries as at least 10 procedural recoveries mean recoveries (94.3 – 102%) were provided across the 0.01, 0.10 and 1.0 fortification levels for all TDMs.

No residues of mefentrifluconazole, 1,2,4-T or TAA were detected at or above the LOQ in untreated control samples. Residues of TA (up to 0.018 mg/kg) and TLA (up to 0.023) were found in control samples from some trials.

Residues of mefentrifluconazole in celery stalks with foliage at 7 days after last application were between 0.25 - 1.50 mg/kg.

Residues of 1,2,4-T in celery stalks with foliage at 7 days after last application were  $<0.01$  mg/kg.

Residues of TA in celery stalks with foliage at 7 days after last application were between <0.01 - 0.018 mg/kg.

Residues of TAA in celery stalks with foliage at 7 days after last application were <0.01 mg/kg.

Residues of TLA in celery stalks with foliage at 7 days after last application were between <0.01 – 0.050 mg/kg.

A summary of the residues trials is given in Table C.3.1.2.5.2-1.

**Table 3.1.2.5.2-1 Residue trials on celery**

|                              |                                                                                                                                                                                                                                     |                                  |                                                                   |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------------------------------------|
| Reference:                   | Study on the residue behaviour of Mefentrifluconazole (BAS 750 F) in celery after three applications with BAS 750 11 F under field conditions in Southern Europe, 2020, [REDACTED] 2021, Study ID: 884418, BASF DocID: 2021/2023393 |                                  |                                                                   |
| GLP:                         | Yes                                                                                                                                                                                                                                 | Sample storage conditions:       | Mefentrifluconazole: 235 days at -18°C<br>TDMs: 160 days at -18°C |
| Crop/crop group:             | Celery/<br>Stem Vegetables                                                                                                                                                                                                          | Analytical method:               | L0076/09 and L0170/02, validated                                  |
| Indoor/outdoor:              | Outdoor                                                                                                                                                                                                                             | Limit of Quantification (mg/kg): | 0.01                                                              |
| Formulation:                 | SC                                                                                                                                                                                                                                  | Residues calculated as:          | Mefentrifluconazole, 1,2,4-T, TA, TAA and TLA                     |
| Content of active substance: | 75 g/L                                                                                                                                                                                                                              |                                  |                                                                   |

The evaluation of new MRLs for mefentrifluconazole in or on various commodities

| Report No.<br>Location<br>(EU-region)<br><br>trial No                       | Commodity/<br>Variety                 | Date of<br>1. Sowing<br>or planting<br><br>2.<br>Flowering<br>3.<br>Harvest | Application rate per<br>treatment |                   |                         | No. of<br>treat-<br>ments<br>and last<br>date | RTI<br>(day<br>s) | Grow<br>th<br>stage<br>at<br>last<br>date | Portion analysed      | DALA<br>(days<br>) | Residues (mg/<br>kg) |         |        |        |        |
|-----------------------------------------------------------------------------|---------------------------------------|-----------------------------------------------------------------------------|-----------------------------------|-------------------|-------------------------|-----------------------------------------------|-------------------|-------------------------------------------|-----------------------|--------------------|----------------------|---------|--------|--------|--------|
|                                                                             |                                       |                                                                             | kg as/hL                          | Water<br>L/ha     | kg<br>as/ha             |                                               |                   |                                           |                       |                    | BAS<br>750 F         | 1,2,4-T | TA     | TAA    | TLA    |
| 2021/2023393<br>04029<br>Sperlonga<br>Italy<br>(S-EU)<br>L200216            | Celery<br>VS 0624<br>APUGV<br>Darklet | 1.<br>24.04.2020<br>2. n.a.<br>3.<br>19.07.2020                             | 0.0187<br>0.0188<br>0.0188        | 630<br>656<br>617 | 0.118<br>0.123<br>0.115 | 3<br>12.06.2020                               | 14                | BBCH<br>47                                | Whole plant, no roots | 0                  | 1.26                 | <0.010  | 0.019  | <0.010 | 0.031  |
|                                                                             |                                       |                                                                             |                                   |                   |                         |                                               |                   |                                           | Stalks with foliage   | 3                  | 1.84                 | <0.010  | 0.010  | <0.010 | 0.020  |
|                                                                             |                                       |                                                                             |                                   |                   |                         |                                               |                   |                                           | Stalks with foliage   | 7                  | 1.51                 | <0.010  | <0.010 | <0.010 | 0.023  |
|                                                                             |                                       |                                                                             |                                   |                   |                         |                                               |                   |                                           | Stalks with foliage   | 13                 | 0.39                 | <0.010  | 0.014  | <0.010 | 0.050  |
|                                                                             |                                       |                                                                             | -                                 | -                 | -                       | -                                             | -                 | -                                         | Whole plant, no roots | 0                  | <0.010               | <0.010  | 0.033  | <0.010 | 0.021  |
|                                                                             |                                       |                                                                             |                                   |                   |                         |                                               |                   |                                           | Stalks with foliage   | 3                  | <0.010               | <0.010  | 0.025  | <0.010 | 0.030  |
|                                                                             |                                       |                                                                             |                                   |                   |                         |                                               |                   |                                           | Stalks with foliage   | 7                  | <0.010               | <0.010  | 0.018  | <0.010 | 0.023  |
|                                                                             |                                       |                                                                             |                                   |                   |                         |                                               |                   |                                           | Stalks with foliage   | 13                 | <0.010               | <0.010  | 0.016  | <0.010 | 0.013  |
| 2021/2023393<br>11140 Conil<br>de la Frontera<br>Spain<br>(S-EU)<br>L200217 | Celery<br>VS 0624<br>APUGV<br>Kelvin  | 1.<br>17.07.2020<br>2. n.a.<br>3.<br>07.10.2020                             | 0.0226<br>0.0225<br>0.0226        | 500<br>537<br>532 | 0.113<br>0.121<br>0.120 | 3<br>30.09.2020                               | 14                | BBCH<br>39-43                             | Whole plant, no roots | 0                  | 1.23                 | <0.010  | <0.010 | <0.010 | <0.010 |
|                                                                             |                                       |                                                                             |                                   |                   |                         |                                               |                   |                                           | Stalks with foliage   | 2                  | 0.39                 | <0.010  | <0.010 | <0.010 | <0.010 |
|                                                                             |                                       |                                                                             |                                   |                   |                         |                                               |                   |                                           | Stalks with foliage   | 7                  | 0.25                 | <0.010  | <0.010 | <0.010 | <0.010 |
|                                                                             |                                       |                                                                             |                                   |                   |                         |                                               |                   |                                           | Stalks with foliage   | 13                 | 0.19                 | <0.010  | <0.010 | <0.010 | <0.010 |
|                                                                             |                                       |                                                                             | -                                 | -                 | -                       | -                                             | -                 | -                                         | Whole plant, no roots | 0                  | <0.010               | <0.010  | <0.010 | <0.010 | <0.010 |
|                                                                             |                                       |                                                                             |                                   |                   |                         |                                               |                   |                                           | Stalks with foliage   | 3                  | <0.010               | <0.010  | <0.010 | <0.010 | <0.010 |
|                                                                             |                                       |                                                                             |                                   |                   |                         |                                               |                   |                                           | Stalks with foliage   | 7                  | <0.010               | <0.010  | <0.010 | <0.010 | <0.010 |
|                                                                             |                                       |                                                                             |                                   |                   |                         |                                               |                   |                                           | Stalks with foliage   | 13                 | <0.010               | <0.010  | <0.010 | <0.010 | <0.010 |

### **C.3.1.2.6 Spinach**

#### **C.3.1.2.6.1 Study 1**

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reference:             | Study on the residue behaviour of Mefentrifluconazole (BAS 750 F) in spinach after application of BAS 750 05 F under field conditions in Southern Europe, 2019, [REDACTED] 2021, Study ID: 877938, BASF DocID: 2020/2080725                                                                                                                                                                                                                                                                                                                                                                                        |
| Guidelines:            | <p>OECD (2009) Guidance Document on Overview of Residue Chemistry Studies (Series on Testing and Assessment No. 64 and Series on Pesticides No. 32)</p> <p>OECD Test Guideline 509: Crop field trials</p> <p>OECD (2011) Guidance Document on Crop Field Trials (Series on Testing and Assessment No. 164 and Series on Pesticides No. 66)</p> <p>EC (1997) Guidance Document 7029/VI/95 (rev. 5)</p> <p>EC Guidance Document SANCO/3029/99 rev. 4</p> <p>European Community Guideline 7525/VI/95 - rev.10.3, June 2017: Comparability, extrapolation, group tolerances and data requirements for setting MRLs</p> |
| Deviations:            | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| GLP:                   | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Validity of the study: | Validated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

### **Materials and methods**

Two trials on spinach were conducted in Spain and Greece using 'BAS 750 05 F', an SC formulation containing 75 g/L mefentrifluconazole, in the 2019 growing season.

'BAS 750 05 F' was applied as a foliar spray at a nominal rate of 0.1125 kg/ha (0.1134-0.1167 kg/ha actual) mefentrifluconazole in 202-208 L/ha of water. One application was made at BBCH 47 and a PHI of 3 days was used. The applications were within  $\pm 25\%$  of the notified critical GAP (1 x 0.113 kg a.s./ha, 3 day PHI, BBCH 10-49).

Weather data were reported for the trials and no exceptional events were noted. The trials were decline trials, samples of whole plant were taken at 0, 1, 3 and 7 days after application. Samples containing at least 2 kg and consisting of at least 12 plants were collected from both treated and untreated plots at PHIs of 1 day and above. At the PHI of 0

day, samples containing at least 0.5 kg and at least 12 plants were collected from both treated and control plots. As the residues data at this PHI is not used for evaluation purposes and as sufficient sample was available to allow analysis, this is considered acceptable in this case. Samples were frozen within 12 hours and stored at  $\leq -18$  °C until analysis. The maximum storage interval between harvest and analysis for mefentrifluconazole was 455 days, The maximum storage interval between harvest and analysis for TDMs was 175 days. Data was considered in the DAR which demonstrates stability of mefentrifluconazole for this period of time in high water crops when stored at  $\leq -18$  °C (EFSA, 2018b). Data was considered in the TDM Review (EFSA, 2018a) which demonstrates stability of TDMs for this period of time in high water crops when stored at  $\leq -18$  °C.

Analysis for mefentrifluconazole was performed using LC-MS/MS (method L0076/09) with an LOQ of 0.01 mg/kg. Analysis for TDMs were performed using LC-DMS-MS/MS (method L0170/02) with an LOQ of 0.01 mg/kg per analyte.

## Results and Discussion

The analytical method for analysing residues of mefentrifluconazole (L0076/09) was satisfactorily validated in accordance with SANCO 3029/99 rev. 4 on high water commodities (UK, 2018b). The LOQ of the method is 0.01 mg/kg. The method was considered applicable to spinach as 8 procedural recoveries were provided across the 0.01, 0.1 and 10.0 mg/kg (mean recovery 95.4%) fortification level.

The analytical method for analysing residues of TDMs (L0170/02) was satisfactorily validated in accordance with SANCO 3029/99 rev. 4 on high water commodities (UK, 2018a). The LOQ of the method is 0.01 mg/kg per analyte. The method was considered applicable to spinach as at least 7 procedural recoveries were provided for across the 0.01 and 0.1 and 1.0 mg/kg fortification levels for all TDMs (mean recoveries 97.1-107%).

No residues of mefentrifluconazole, 1,2,4-T or TAA were detected at or above the LOQ were detected in untreated control samples. Residues of TA (up to 0.098 mg/kg) and TLA (up to 0.14 mg/kg) were found in all control samples from all trials.

Residues of mefentrifluconazole in spinach (whole plant excluding roots) at 3 days after last application were between 2.4 – 2.5 mg/kg.

Residues of 1,2,4-T and TAA in spinach (whole plant excluding roots) at 3 days after last application were  $<0.01$  mg/kg.

Residues of TLA in spinach (whole plant excluding roots) at 3 days after last application were between 0.054 – 0.071 mg/kg.

Residues of TA in spinach (whole plant excluding roots) at 3 days after last application were between 0.051 – 0.068 mg/kg.

A summary of the residues trials is given in Table C.3.1.2.6.1-1.

**Table 3.1.2.6.1-1 Residue Trials on Spinach**

|                              |                                                                                                                                                                                                                                 |                                  |                                                             |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------------------------------|
| Reference:                   | Study on the residue behaviour of Mefentrifluconazole (BAS 750 F) in spinach after application of BAS 750 05 F under field conditions in Southern Europe, 2019, ██████████ 2021, BASF Study ID: 877938, BASF DocID 2020/2080725 |                                  |                                                             |
| GLP:                         | Yes                                                                                                                                                                                                                             | Sample storage conditions:       | Mefentrifluconazole 455 days, -18°C                         |
|                              |                                                                                                                                                                                                                                 |                                  | TDMs: 175 days, -18°C                                       |
| Crop/crop group:             | Spinach / Leaf and Herbs                                                                                                                                                                                                        | Analytical method:               | Mefentrifluconazole: L0076/09 and TDMs: L0170/02, validated |
| Indoor/outdoor:              | Outdoor                                                                                                                                                                                                                         | Limit of Quantification (mg/kg): | 0.01                                                        |
| Formulation:                 | SC                                                                                                                                                                                                                              | Residues calculated as:          | Mefentrifluconazole, 1,2,4-T, TA, TAA and TLA               |
| Content of active substance: | 75 g/L                                                                                                                                                                                                                          |                                  |                                                             |

| Report No.<br>Location<br>(EU-region)<br>trial No             | Commodity/<br>Variety                 | Date of<br>1. Sowing or<br>planting<br>2. Flowering<br>3. Harvest | Application rate per treatment |               |          | No. of<br>treatments<br>and last<br>date | RTI | Growth<br>stage<br>at last<br>date<br>(BBCH) | Portion<br>analysed          | DALA | Residues (mg/kg) |         |       |        |       |
|---------------------------------------------------------------|---------------------------------------|-------------------------------------------------------------------|--------------------------------|---------------|----------|------------------------------------------|-----|----------------------------------------------|------------------------------|------|------------------|---------|-------|--------|-------|
|                                                               |                                       |                                                                   | kg as/hL                       | Water<br>L/ha | kg as/ha |                                          |     |                                              |                              |      | BAS<br>750 F     | 1,2,4-T | TA    | TAA    | TLA   |
| 2020/2080725<br>ES-41710 Utrera<br>Spain<br>(S-EU)<br>L190382 | Spinach<br>VL 0502<br>SPQOL<br>Marten | 1. 12.09.2019<br>2. n.a.<br>3. 04.11.2019                         | 0.056                          | 208           | 0.1167   | 1<br>28.10.2019                          | -   | 47                                           | Whole<br>plant (no<br>roots) | 0    | 3.0              | <0.010  | 0.029 | <0.010 | 0.019 |
|                                                               |                                       |                                                                   |                                |               |          |                                          |     |                                              |                              | 1    | 3.5              | <0.010  | 0.030 | <0.010 | 0.018 |
|                                                               |                                       |                                                                   |                                |               |          |                                          |     |                                              |                              | 3    | 2.5              | <0.010  | 0.040 | <0.010 | 0.023 |
|                                                               |                                       |                                                                   |                                |               |          |                                          |     |                                              |                              | 7    | 1.8              | <0.010  | 0.035 | <0.010 | 0.021 |

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| Report No.<br>Location<br>(EU-region)<br>trial No                     | Commodity/<br>Variety                   | Date of<br>1. Sowing or<br>planting<br>2. Flowering<br>3. Harvest | Application rate per treatment |               |          | No. of<br>treatments<br>and last<br>date | RTI | Growth<br>stage<br>at last<br>date<br>(BBCH) | Portion<br>analysed          | DALA             | Residues (mg/kg)                     |                                                |                                         |                                                |                                         |
|-----------------------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------------|--------------------------------|---------------|----------|------------------------------------------|-----|----------------------------------------------|------------------------------|------------------|--------------------------------------|------------------------------------------------|-----------------------------------------|------------------------------------------------|-----------------------------------------|
|                                                                       |                                         |                                                                   | kg as/hL                       | Water<br>L/ha | kg as/ha |                                          |     |                                              |                              |                  | BAS<br>750 F                         | 1,2,4-T                                        | TA                                      | TAA                                            | TLA                                     |
|                                                                       |                                         |                                                                   | -                              | -             | -        | -                                        | -   | -                                            | Whole<br>plant (no<br>roots) | 0<br>1<br>3<br>7 | <0.010<br><0.010<br><0.010<br><0.010 | <0.010<br><0.010<br><0.010<br><0.010           | 0.066<br>0.021<br>0.021<br><u>0.051</u> | <0.010<br><0.010<br><0.010<br><0.010           | 0.039<br>0.010<br>0.012<br><u>0.054</u> |
| 2020/2080725<br>GR-58001<br>Karyotissa<br>Greece<br>(S-EU)<br>L190383 | Spinach<br>VL 0502<br>SPQOL<br>Paladium | 1. 08.08.2019<br>2. n.a.<br>3. 19.09.2019-<br>01.10.2019          | 0.056                          | 202           | 0.1134   | 1<br>16.09.2019                          | -   | 47                                           | Whole<br>plant (no<br>roots) | 0<br>1<br>3<br>7 | 2.4<br>2.4<br><u>2.4</u><br>0.84     | <0.010<br><0.010<br><u>&lt;0.010</u><br><0.010 | 0.058<br>0.054<br>0.046<br>0.047        | <0.010<br><0.010<br><u>&lt;0.010</u><br><0.010 | 0.072<br>0.077<br>0.059<br>0.048        |
|                                                                       |                                         |                                                                   |                                |               |          |                                          |     |                                              |                              | 0<br>1<br>3<br>7 | <0.010<br><0.010<br><0.010<br><0.010 | <0.010<br><0.010<br><0.010<br><0.010           | 0.098<br>0.068<br><u>0.068</u><br>0.041 | <0.010<br><0.010<br><0.010<br><0.010           | 0.14<br>0.091<br><u>0.071</u><br>0.028  |
|                                                                       |                                         |                                                                   |                                |               |          |                                          |     |                                              |                              | 0<br>1<br>3<br>7 | <0.010<br><0.010<br><0.010<br><0.010 | <0.010<br><0.010<br><0.010<br><0.010           | 0.098<br>0.068<br><u>0.068</u><br>0.041 | <0.010<br><0.010<br><0.010<br><0.010           | 0.14<br>0.091<br><u>0.071</u><br>0.028  |
|                                                                       |                                         |                                                                   |                                |               |          |                                          |     |                                              |                              | 0<br>1<br>3<br>7 | <0.010<br><0.010<br><0.010<br><0.010 | <0.010<br><0.010<br><0.010<br><0.010           | 0.098<br>0.068<br><u>0.068</u><br>0.041 | <0.010<br><0.010<br><0.010<br><0.010           | 0.14<br>0.091<br><u>0.071</u><br>0.028  |
|                                                                       |                                         |                                                                   |                                |               |          |                                          |     |                                              |                              | 0<br>1<br>3<br>7 | <0.010<br><0.010<br><0.010<br><0.010 | <0.010<br><0.010<br><0.010<br><0.010           | 0.098<br>0.068<br><u>0.068</u><br>0.041 | <0.010<br><0.010<br><0.010<br><0.010           | 0.14<br>0.091<br><u>0.071</u><br>0.028  |
|                                                                       |                                         |                                                                   |                                |               |          |                                          |     |                                              |                              | 0<br>1<br>3<br>7 | <0.010<br><0.010<br><0.010<br><0.010 | <0.010<br><0.010<br><0.010<br><0.010           | 0.098<br>0.068<br><u>0.068</u><br>0.041 | <0.010<br><0.010<br><0.010<br><0.010           | 0.14<br>0.091<br><u>0.071</u><br>0.028  |
|                                                                       |                                         |                                                                   |                                |               |          |                                          |     |                                              |                              | 0<br>1<br>3<br>7 | <0.010<br><0.010<br><0.010<br><0.010 | <0.010<br><0.010<br><0.010<br><0.010           | 0.098<br>0.068<br><u>0.068</u><br>0.041 | <0.010<br><0.010<br><0.010<br><0.010           | 0.14<br>0.091<br><u>0.071</u><br>0.028  |
|                                                                       |                                         |                                                                   |                                |               |          |                                          |     |                                              |                              | 0<br>1<br>3<br>7 | <0.010<br><0.010<br><0.010<br><0.010 | <0.010<br><0.010<br><0.010<br><0.010           | 0.098<br>0.068<br><u>0.068</u><br>0.041 | <0.010<br><0.010<br><0.010<br><0.010           | 0.14<br>0.091<br><u>0.071</u><br>0.028  |

#### C.3.1.2.6.2 Study 2

Reference: Study on the residue behaviour of Mefentrifluconazole (BAS 750 F) in spinach after one application with BAS 750 11 F under field conditions in Southern Europe, 2020, [REDACTED] 2021, Study ID: 884419, BASF  
DocID: 2021/2023395

Guidelines: OECD (2009) Guidance Document on Overview of Residue Chemistry Studies (Series on Testing and Assessment No. 64 and Series on Pesticides No. 32)

OECD Test Guideline 509: Crop field trials

OECD (2011) Guidance Document on Crop Field Trials (Series on Testing and Assessment No. 164 and Series on Pesticides No. 66)

EC (1997) Guidance Document 7029/VI/95 (rev. 5)

EC Guidance Document SANCO/3029/99 rev. 4

European Community Guideline 7525/VI/95 - rev.10.3, June 2017: Comparability, extrapolation, group tolerances and data requirements for setting MRLs

Deviations: No

GLP: Yes

Validity of the study: Validated

#### Materials and Methods

Two trials on spinach were conducted in Spain and Greece using 'BAS 750 11 F', an SC formulation containing 75 g/L mefentrifluconazole, in the 2020 growing season.

'BAS 750 11 F' was applied as a foliar spray at a nominal rate of 0.1125 kg/ha (0.117 – 1.120 kg/ha actual) mefentrifluconazole in 208-213 L/ha of water. One application was made at BBCH 47-49 and a PHI of 3 days was used. The applications were within  $\pm 25\%$  of the notified critical GAP (1 x 0.113 kg a.s./ha, 3 day PHI, BBCH 10-49).

Weather data were reported for the trials and no exceptional events were noted. The trials were decline trials, samples of whole plant were taken at 0, 1, 2/3 and 7/8 days after application. Samples containing at least 2 kg and consisting of at least 12 plants were collected from both treated and untreated plots at PHIs of 1 day and above. At the PHI of 0 day, samples containing at least 0.5 kg and at least 12 plants were collected from both treated and control plots. As the residues data at this PHI is not used for evaluation purposes and as sufficient sample was available to allow analysis, this is considered acceptable in this case. Samples were frozen within 12 hours, and stored at  $\leq -18^{\circ}\text{C}$  until analysis.

The maximum storage interval between harvest and analysis for mefentrifluconazole was 162 days, the maximum storage interval between harvest and analysis for TDMs was 162 days. Data was considered in the DAR which demonstrates stability of mefentrifluconazole for this period of time in high water crops when stored at  $\leq -18^{\circ}\text{C}$  (EFSA, 2018b). Data was considered in the TDM Review (EFSA, 2018a) which demonstrates stability of TDMs for this period of time in high water crops when stored at  $\leq -18^{\circ}\text{C}$ . Analysis for mefentrifluconazole was performed using LC-MS/MS (method L0076/09) with an LOQ of 0.01 mg/kg. Analysis for TDMs were performed using LC-DMS-MS/MS (method L0170/02) with an LOQ of 0.01 mg/kg per analyte.

## Results and discussion

The analytical method for analysing residues of mefentrifluconazole (L0076/09) was satisfactorily validated in accordance with SANCO 3029/99 rev. 4 on high water commodities (UK, 2018b). The LOQ of the method is 0.01 mg/kg. The method was considered applicable to spinach as 3 procedural recoveries were provided for both the 0.01 (mean recovery 89.1%) and 0.1 (mean recovery 91.1%) mg/kg fortification levels. One procedural recovery was also provided at the 5.0 mg/kg fortification (recovery 79.8%).

The analytical method for analysing residues of TDMs (L0170/02) was satisfactorily validated in accordance with SANCO 3029/99 rev. 4 on high water commodities (UK, 2018a). The LOQ of the method is 0.01 mg/kg per analyte. The method was considered applicable to spinach as 3 procedural recoveries were provided for both the 0.01 (mean recoveries 96.5-103 %) and 0.1 (mean recoveries 96.5 –102%) mg/kg fortification levels for all TDMs.

No residues of mefentrifluconazole, 1,2,4-T, TA, TAA or TLA were detected at or above the LOQ in untreated control samples.

Residues of mefentrifluconazole in spinach (whole plant excluding roots) at 3 days after last application were between 0.83 – 3.6 mg/kg.

Residues of 1,2,4-T, TA, TAA and TLA in spinach (whole plant excluding roots) at 3 days after last application were  $<0.010$  mg/kg.

A summary of the residues trials is given in Table C.3.1.2.6.2-1.

**Table 3.1.2.6.2-1 Residue Trials on Spinach**

|                              |                                                                                                                                                                                                                                   |                                  |                                                             |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------------------------------|
| Reference:                   | Study on the residue behaviour of Mefentrifluconazole (BAS 750 F) in spinach after one application with BAS 750 11 F under field conditions in Southern Europe, 2020, [REDACTED] 2021, Study ID: 884419, BASF DocID: 2021/2023395 |                                  |                                                             |
| GLP:                         | Yes                                                                                                                                                                                                                               | Sample storage conditions:       | Mefentrifluconazole and TDMs: 162 days, -18°C               |
| Crop/crop group:             | Spinach / Leaf and Herbs                                                                                                                                                                                                          | Analytical method:               | Mefentrifluconazole: L0076/09 and TDMs: L0170/02, validated |
| Indoor/outdoor:              | Outdoor                                                                                                                                                                                                                           | Limit of Quantification (mg/kg): | 0.01                                                        |
| Formulation:                 | SC                                                                                                                                                                                                                                | Residues calculated as:          | Mefentrifluconazole, 1,2,4-T, TA, TAA and TLA               |
| Content of active substance: | 75 g/L                                                                                                                                                                                                                            |                                  |                                                             |

| Report No.<br>Location<br>(EU-region)<br>trial No         | Commodity/<br>Variety                  | Date of<br>1. Sowing or<br>planting<br>2. Flowering<br>3. Harvest | Applic rate treatm<br>ation per ent |               |             | No. of<br>treatments<br>and last<br>date | Growth<br>stage at<br>last<br>date<br>(BBCH) | Portion<br>analyse<br>d      | DAL<br>A | Residu (mg/kg<br>es ) |                  |                  |                  |                  |
|-----------------------------------------------------------|----------------------------------------|-------------------------------------------------------------------|-------------------------------------|---------------|-------------|------------------------------------------|----------------------------------------------|------------------------------|----------|-----------------------|------------------|------------------|------------------|------------------|
|                                                           |                                        |                                                                   | kg<br>as/hL                         | Water<br>L/ha | kg<br>as/ha |                                          |                                              |                              |          | BAS<br>750 F          | 1,2,4-T          | TA               | TAA              | TLA              |
| 2021/2023395<br>31360 Funes<br>Spain<br>(S-EU)<br>L200218 | Spinach<br>VL 0502<br>SPQOL<br>Solomon | 1. 25.10.2019<br>2. n.r.<br>3. 27.03.2020                         | 0.056                               | 213           | 0.120       | 1<br>24.03.2020                          | 47-49                                        | Whole<br>plant (no<br>roots) | 0        | 0.80                  | <0.010           | <0.010           | <0.010           | <0.010           |
|                                                           |                                        |                                                                   |                                     |               |             |                                          |                                              |                              | 1        | 1.1                   | <0.010           | <0.010           | <0.010           | <0.010           |
|                                                           |                                        |                                                                   |                                     |               |             |                                          |                                              |                              | 3        | <u>0.83</u>           | <u>&lt;0.010</u> | <u>&lt;0.010</u> | <u>&lt;0.010</u> | <u>&lt;0.010</u> |
|                                                           |                                        |                                                                   |                                     |               |             |                                          |                                              |                              | 8        | 0.51                  | <0.010           | <0.010           | <0.010           | <0.010           |

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| Report No.<br>Location<br>(EU-region)<br>trial No             | Commodity/<br>Variety                 | Date of<br>1. Sowing or<br>planting<br>2. Flowering<br>3. Harvest | Applic rate treatm<br>ation per ent |               |             | No. of<br>treatments<br>and last<br>date | Growth<br>stage at<br>last<br>date<br>(BBCH) | Portion<br>analyse<br>d      | DAL<br>A         | Residu (mg/kg<br>es )                |                                      |                                      |                                      |                                      |
|---------------------------------------------------------------|---------------------------------------|-------------------------------------------------------------------|-------------------------------------|---------------|-------------|------------------------------------------|----------------------------------------------|------------------------------|------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
|                                                               |                                       |                                                                   | kg<br>as/hL                         | Water<br>L/ha | kg<br>as/ha |                                          |                                              |                              |                  | BAS<br>750 F                         | 1,2,4-T                              | TA                                   | TAA                                  | TLA                                  |
|                                                               |                                       |                                                                   | -                                   | -             | -           | -                                        | -                                            | Whole<br>plant (no<br>roots) | 0<br>1<br>3<br>8 | <0.010<br><0.010<br><0.010<br><0.010 | <0.010<br><0.010<br><0.010<br><0.010 | <0.010<br><0.010<br><0.010<br><0.010 | <0.010<br><0.010<br><0.010<br><0.010 | <0.010<br><0.010<br><0.010<br><0.010 |
| 2021/2023395<br>58100 Palefito<br>Greece<br>(S-EU)<br>L200219 | Spinach<br>VL 0502<br>SPQOL<br>Acosta | 1. 20.09.2020<br>2. n.r.<br>3. 11.11.2020                         | 0.056                               | 208           | 0.117       | 1<br>09.11.2020                          | 47                                           | Whole<br>plant (no<br>roots) | 0                | 3.9                                  | <0.010                               | <0.010                               | <0.010                               | <0.010                               |
|                                                               |                                       |                                                                   |                                     |               |             |                                          |                                              |                              | 1                | 3.9                                  | <0.010                               | <0.010                               | <0.010                               | <0.010                               |
|                                                               |                                       |                                                                   |                                     |               |             |                                          |                                              |                              | 2                | <u>3.6</u>                           | <u>&lt;0.010</u>                     | <u>&lt;0.010</u>                     | <u>&lt;0.010</u>                     | <u>&lt;0.010</u>                     |
|                                                               |                                       |                                                                   |                                     |               |             |                                          |                                              |                              | 7                | 2.4                                  | <0.010                               | <0.010                               | <0.010                               | <0.010                               |
|                                                               |                                       |                                                                   | -                                   | -             | -           | -                                        | -                                            | Whole<br>plant (no<br>roots) | 0                | <0.010                               | <0.010                               | <0.010                               | <0.010                               | <0.010                               |
|                                                               |                                       |                                                                   |                                     |               |             |                                          |                                              |                              | 1                | <0.010                               | <0.010                               | <0.010                               | <0.010                               | <0.010                               |
|                                                               |                                       |                                                                   |                                     |               |             |                                          |                                              |                              | 2                | <0.010                               | <0.010                               | <0.010                               | <0.010                               | <0.010                               |
|                                                               |                                       |                                                                   |                                     |               |             |                                          |                                              |                              | 7                | <0.010                               | <0.010                               | <0.010                               | <0.010                               | <0.010                               |

### **C.3.1.2.7 Apples and Pears extrapolated to kaki/Japanese persimmons**

#### **C.3.1.2.7.1 Study 1**

Reference: Study on the residue behaviour of BAS 750 F (Reg.No. 5834378) in apples and pears after application of BAS 750 05 F under field conditions in Germany, The Netherlands, Northern and Southern France, Greece, Italy and Spain, 2016, [REDACTED] 2017, Study ID: 742073, BASF DocID: 2017/1023366

Guideline(s): Regulation (EC) No. 1107/2009 of the European Parliament and the Council of 21 October 2009 concerning the placing of plant protection products on the market and repealing Council Directives 79/117/EEC and 91/414/EEC

European Community Guideline 7029/VI/95 - rev.5, 22/07/97: General recommendations for the design preparation and realization of residue trials.

European Community Guideline SANCO 7525/VI/95 - Rev. 10.1, 01 December 2015: Guidelines on comparability, extrapolation, group tolerances and data requirements for setting MRLs.

OECD Guideline for the testing of chemicals – Crop Field Trials: OECD/OCDE 509. Adopted 7 September 2009

Deviations: No

GLP: Yes

Validity of the study: Validated

### **Materials and Methods**

Four trials, two on apples and two on pears were conducted in southern France, Italy, Spain and Greece using 'BAS 750 05 F', an SC formulation containing 75 g/L mefentrifluconazole, in the 2016 growing season. It should be noted that an additional 4 trials were undertaken at regions across northern Europe. As the notified GAP relates to a southern Europe use, and the same GAP is not authorised in northern Europe, the additional trials have not been considered further.

'BAS 750 05 F' was applied as a foliar spray at a nominal rate of 2 x 150 g/ha (2 x 0.145 – 0.157 kg/ha) mefentrifluconazole in 772 - 841 L/ha of water. Two applications were made with a 10-11 day RTI and with last application at BBCH 72-80, the PHI was 27-28 days. The applications were within  $\pm 25\%$  of the notified critical GAP (2 x 150 g/ha, 28 day PHI, 7

day RTI), except for RTI except the RTI. However, the residue levels of parent mefentrifluconazole and TDMs are comparable regardless of RTI within the range tested, a previous assessment of apples and pears (HSE 2023) showed that in most trials the residues were higher at the longer RTIs than at a 7 day RTI. Therefore, the trials are considered to support the cGAP despite falling outside 25% of the notified GAP.

As apples and pears are tall crops, residues may be driven by spray concentration due to direct application to the plant and the fact that the spray is often applied to run off. It is noted that the maximum spray concentration of the notified cGAP is 100 g a.s./hL (water volume: 150 L). The maximum spray concentration used in the trials is 19 g a.s./hL (water volume: 800). From the trials data it is not possible to determine whether it is application rate or spray concentration which is predominantly driving the residue. However, previously assessed trials (HSE, 2023) on other fruit and fruiting vegetable crops show that the spray concentration does not have a significant effect on residues, therefore the trials support the notified use.

Weather data were reported for the trials and no exceptional events were noted. The trials were decline trials, samples of fruit were taken at 0, 21, 27/28 and 35/36 days after last application. Samples containing at least 2 kg were collected from both treated and control plots except for the samples harvested at 0 DALA which contained at least 1kg. As the residues data at this PHI is not used for evaluation purposes and as sufficient sample was available to allow analysis, this is considered acceptable in this case. Samples were frozen within 6 hours and stored at  $\leq -18^{\circ}\text{C}$  until analysis.

The maximum storage interval between harvest and analysis for mefentrifluconazole was 179 days. Data was considered in the DAR which demonstrates stability of mefentrifluconazole for this period of time in high water crops when stored at  $\leq -18^{\circ}\text{C}$  (EFSA, 2018b).

The maximum storage interval between harvest and analysis for TDMs was 252 days. Data was considered in the TDM Review (EFSA, 2018a) which demonstrates stability of TDMs for this period of time in high water crops when stored at  $\leq -18^{\circ}\text{C}$ . Analysis for mefentrifluconazole was performed using LC-MS/MS (method L0076/09) with an LOQ of 0.01 mg/kg. Analysis for TDMs were performed using LC-DMS-MS/MS (method L0170/02) with an LOQ of 0.01 mg/kg per analyte.

## Results and Discussion

The analytical method for analysing residues of mefentrifluconazole (L0076/09) was satisfactorily validated in accordance with SANCO 3029/99 rev. 4 on high water commodities (UK, 2018b). The LOQ of the method is 0.01 mg/kg. The method was considered applicable to apples as 12 procedural recoveries were provided across the 0.01, 0.1, 1.0 and 10.0 mg/kg (mean recovery 94.4%) fortification levels. The method was

considered applicable to pears as 10 procedural recoveries were provided across the 0.01, 0.1, 1.0 and 10.0 mg/kg (mean recovery 92.1%) fortification levels.

The analytical method for analysing residues of TDMs (L0170/02) was satisfactorily validated in accordance with SANCO 3029/99 rev. 4 on high water commodities (UK 2018). The LOQ of the method is 0.01 mg/kg per analyte. The method was considered applicable to apples as at least 10 procedural recoveries were provided for across the 0.01 and 0.1 and 1.0 mg/kg fortification levels for all TDMs (mean recoveries 89.9-100%). The method was considered applicable to pears as at least 9 procedural recoveries were provided for across the 0.01 and 0.1 and 1.0 mg/kg fortification levels for all TDMs (mean recoveries 89.2-100%).

No residues of 1,2,4 -T or mefentrifluconazole were detected at or above the LOQ in untreated control samples. Residues of TAA in untreated samples did not exceed 0.01 mg/kg. Residues of TLA (up to 0.013 mg/kg) were found in some untreated control samples. Residues of TA (up to 0.26mg/kg) were found in some untreated control samples.

Residues of mefentrifluconazole in apples and pears at 28 days after last application were between 0.02 – 0.11 mg/kg

Residues of 1,2,4 -T in in apples and pears at 28 days after last application were <0.01 mg/kg.

Residues of TA in in apples and pears at 28 days after last application were between 0.024 – 0.041 mg/kg.

Residues of TAA in in apples and pears at 28 days after last application were between <0.01 – 0.013 mg/kg.

Residues of TLA in in apples and pears at 28 days after last application were between <0.01 – 0.013 mg/kg.

A summary of the residue trials is given in Table C.3.1.2.7.1-1.

**Table C.3.1.2.7.1-1 Residue Trials on Apples and Pears**

|                              |                                                                                                                                                                                                                                                                                                  |                                  |                                                                   |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------------------------------------|
| Reference:                   | Study on the residue behaviour of BAS 750 F (Reg.No. 5834378) in apples and pears after application of BAS 750 05 F under field conditions in Germany, The Netherlands, Northern and Southern France, Greece, Italy and Spain, 2016, [REDACTED] 2017, Study ID: 742073, BASF DocID: 2017/1023366 |                                  |                                                                   |
| GLP:                         | Yes                                                                                                                                                                                                                                                                                              | Sample storage conditions:       | Mefentrifluconazole: 179 days, -18°C<br><br>TDMs: 252 days, -18°C |
| Crop/crop group:             | Apples and pears / Pome fruits                                                                                                                                                                                                                                                                   | Analytical method:               | Mefentrifluconazole: L0076/09 and TDMs: L0170/02, validated       |
| Indoor/outdoor:              | Outdoor                                                                                                                                                                                                                                                                                          | Limit of Quantification (mg/kg): | 0.01                                                              |
| Formulation:                 | SC                                                                                                                                                                                                                                                                                               | Residues calculated as:          | Mefentrifluconazole, 1,2,4-T, TA, TAA and TLA                     |
| Content of active substance: | 75 g/L                                                                                                                                                                                                                                                                                           |                                  |                                                                   |

| Report No.<br>Location<br>(EU-region)<br>trial No                                              | Commodity/<br>Variety              | Date of<br>1. Sowing<br>or planting<br>2. Flowering<br>3. Harvest | Application rate per treatment |               |             | No. of<br>treatments<br>and<br>last date | RTI<br>(days) | Growth<br>stage at<br>last date | Portion<br>analysed | DALA <sup>1)</sup> | Residues (mg/kg) |                 |              |                 |                 |
|------------------------------------------------------------------------------------------------|------------------------------------|-------------------------------------------------------------------|--------------------------------|---------------|-------------|------------------------------------------|---------------|---------------------------------|---------------------|--------------------|------------------|-----------------|--------------|-----------------|-----------------|
|                                                                                                |                                    |                                                                   | kg<br>as/hL                    | Water<br>L/ha | kg<br>as/ha |                                          |               |                                 |                     |                    | BAS 750<br>F     | 1,2,4-T         | TA           | TAA             | TLA             |
| #2017/1023366<br>13690 Graveson<br>Provence-Alpes-<br>Côte<br>d'Azur, France<br>(S)<br>L160181 | FP 0226<br>Apples<br>Royal<br>Gala | 1. 1996<br>2. 30.04.-<br>21.05.2016<br>3.05.09.20<br>16           | 0.019                          | 800           | 0.150       | 2<br>29.07.2016                          | 10            | 75                              | Fruit               | 0                  | 0.33             | <0.01           | <0.01        | <0.01           | <0.01           |
|                                                                                                |                                    |                                                                   |                                |               |             |                                          |               |                                 | Fruit               | 21                 | 0.14             | <0.01           | 0.010        | <0.01           | <0.01           |
|                                                                                                |                                    |                                                                   |                                |               |             |                                          |               |                                 | Fruit               | 28                 | <u>0.11</u>      | <u>&lt;0.01</u> | 0.012        | <u>&lt;0.01</u> | <u>&lt;0.01</u> |
|                                                                                                |                                    |                                                                   |                                |               |             |                                          |               |                                 | Fruit               | 35                 | 0.11             | <0.01           | <u>0.024</u> | <0.01           | <0.01           |

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| Report No.<br>Location<br>(EU-region)<br>trial No                             | Commodity/<br>Variety      | Date of<br>1. Sowing<br>or planting<br>2. Flowering<br>3. Harvest | Application<br>rate per treatment |               |             | No. of<br>treatments<br>and<br>last date | RTI<br>(days) | Growth<br>stage at<br>last date | Portion<br>analysed | DALA <sup>1)</sup> | Residues (mg/kg) |                 |              |                 |                 |
|-------------------------------------------------------------------------------|----------------------------|-------------------------------------------------------------------|-----------------------------------|---------------|-------------|------------------------------------------|---------------|---------------------------------|---------------------|--------------------|------------------|-----------------|--------------|-----------------|-----------------|
|                                                                               |                            |                                                                   | kg<br>as/hL                       | Water<br>L/ha | kg<br>as/ha |                                          |               |                                 |                     |                    | BAS 750<br>F     | 1,2,4-T         | TA           | TAA             | TLA             |
|                                                                               |                            |                                                                   | -                                 | -             | -           | -                                        | -             | -                               | Fruit               | 0                  | <0.01            | <0.01           | <0.01        | <0.01           | <0.01           |
|                                                                               |                            |                                                                   |                                   |               |             |                                          |               |                                 | Fruit               | 21                 | <0.01            | <0.01           | <0.01        | <0.01           | <0.01           |
|                                                                               |                            |                                                                   |                                   |               |             |                                          |               |                                 | Fruit               | 28                 | <0.01            | <0.01           | <0.01        | <0.01           | <0.01           |
|                                                                               |                            |                                                                   |                                   |               |             |                                          |               |                                 | Fruit               | 35                 | <0.01            | <0.01           | <0.01        | <0.01           | <0.01           |
| #2017/1023366<br>58200 Pella<br>Central<br>Macedonia<br>Greece (S)<br>L160182 | FP 0226<br>Apples<br>Gala  | 1. 2007<br>2. 05.-<br>15.04.2016<br>3. 10.-<br>20.08.2016         | 0.019                             | 800           | 0.150       | 2<br>07.07.2016                          | 10            | 76 - 77                         | Fruit               | 0                  | 0.14             | <0.01           | 0.039        | <0.01           | <0.01           |
|                                                                               |                            |                                                                   |                                   |               |             |                                          |               |                                 | Fruit               | 21                 | 0.089            | <0.01           | 0.030        | <0.01           | <0.01           |
|                                                                               |                            |                                                                   |                                   |               |             |                                          |               |                                 | Fruit               | 27                 | <u>0.058</u>     | <u>&lt;0.01</u> | <u>0.030</u> | <u>&lt;0.01</u> | <u>&lt;0.01</u> |
|                                                                               |                            |                                                                   |                                   |               |             |                                          |               |                                 | Fruit               | 35                 | 0.063            | <0.01           | 0.020        | <0.01           | <0.01           |
|                                                                               |                            |                                                                   | -                                 | -             | -           | -                                        | -             | -                               | Fruit               | 0                  | <0.01            | <0.01           | <0.01        | <0.01           | <0.01           |
|                                                                               |                            |                                                                   |                                   |               |             |                                          |               |                                 | Fruit               | 21                 | <0.01            | <0.01           | <0.01        | <0.01           | <0.01           |
|                                                                               |                            |                                                                   |                                   |               |             |                                          |               |                                 | Fruit               | 27                 | <0.01            | <0.01           | <0.01        | <0.01           | <0.01           |
|                                                                               |                            |                                                                   |                                   |               |             |                                          |               |                                 | Fruit               | 35                 | <0.01            | <0.01           | <0.01        | <0.01           | <0.01           |
| #2017/1023366<br>12035 Racconigi<br>(CN)<br>Piedmont<br>Italy (S)<br>L160183  | FP 0230<br>Pears<br>Kaiser | 1. 2009<br>2. 09.-<br>20.04.2016<br>3. 13.09.2016                 | 0.019                             | 800           | 0.150       | 2<br>16.08.2016                          | 11            | 80                              | Fruit               | 0                  | 0.28             | <0.01           | 0.11         | <0.01           | 0.011           |
|                                                                               |                            |                                                                   |                                   |               |             |                                          |               |                                 | Fruit               | 21                 | 0.12             | <0.01           | 0.095        | <0.01           | <0.01           |
|                                                                               |                            |                                                                   |                                   |               |             |                                          |               |                                 | Fruit               | 28                 | <u>0.088</u>     | <u>&lt;0.01</u> | 0.11         | <u>&lt;0.01</u> | <0.01           |
|                                                                               |                            |                                                                   |                                   |               |             |                                          |               |                                 | Fruit               | 35                 | 0.067            | <0.01           | <u>0.12</u>  | <0.01           | <u>0.013</u>    |
|                                                                               |                            |                                                                   | -                                 | -             | -           | -                                        | -             | -                               | Fruit               | 0                  | <0.01            | <0.01           | 0.16         | <0.01           | <0.01           |
|                                                                               |                            |                                                                   |                                   |               |             |                                          |               |                                 | Fruit               | 21                 | <0.01            | <0.01           | 0.13         | <0.01           | <0.01           |
|                                                                               |                            |                                                                   |                                   |               |             |                                          |               |                                 | Fruit               | 28                 | <0.01            | <0.01           | 0.013        | <0.01           | <0.01           |
|                                                                               |                            |                                                                   |                                   |               |             |                                          |               |                                 | Fruit               | 35                 | <0.01            | <0.01           | 0.12         | <0.01           | <0.01           |

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| Report No.<br>Location<br>(EU-region)<br>trial No                   | Commodity/<br>Variety     | Date of<br>1. Sowing<br>or planting<br>2. Flowering<br>3. Harvest | Application<br>rate per treatment |               |             | No. of<br>treatments<br>and<br>last date | RTI<br>(days) | Growth<br>stage at<br>last date | Portion<br>analysed | DALA <sup>1)</sup> | Residues (mg/kg) |                 |             |              |              |
|---------------------------------------------------------------------|---------------------------|-------------------------------------------------------------------|-----------------------------------|---------------|-------------|------------------------------------------|---------------|---------------------------------|---------------------|--------------------|------------------|-----------------|-------------|--------------|--------------|
|                                                                     |                           |                                                                   | kg<br>as/hL                       | Water<br>L/ha | kg<br>as/ha |                                          |               |                                 |                     |                    | BAS 750<br>F     | 1,2,4-T         | TA          | TAA          | TLA          |
| #2017/1023366<br>41011 Seville<br>Andalusia<br>Spain (S)<br>L160184 | FP 0230<br>Pears<br>Nashi | 1. 1991<br>2. 26.03.-<br>14.04.2016<br>3. 22.08.2016              | 0.019                             | 800           | 0.150       | 2<br>11.07.2016                          | 10            | 72 - 74                         | Fruit               | 0                  | 0.18             | <0.01           | 0.38        | <0.01        | 0.022        |
|                                                                     |                           |                                                                   |                                   |               |             |                                          |               |                                 | Fruit               | 21                 | 0.036            | <0.01           | 0.49        | <0.01        | <0.01        |
|                                                                     |                           |                                                                   |                                   |               |             |                                          |               |                                 | Fruit               | 28                 | <u>0.020</u>     | <u>&lt;0.01</u> | <u>0.41</u> | 0.012        | <u>0.013</u> |
|                                                                     |                           |                                                                   |                                   |               |             |                                          |               |                                 | Fruit               | 36                 | 0.015            | <0.01           | 0.41        | <u>0.013</u> | <0.01        |
|                                                                     |                           |                                                                   | -                                 | -             | -           | -                                        | -             | -                               | Fruit               | 0                  | <0.01            | <0.01           | 0.40        | <0.01        | 0.015        |
|                                                                     |                           |                                                                   |                                   |               |             |                                          |               |                                 | Fruit               | 21                 | <0.01            | <0.01           | 0.071       | <0.01        | 0.017        |
|                                                                     |                           |                                                                   |                                   |               |             |                                          |               |                                 | Fruit               | 28                 | <0.01            | <0.01           | 0.22        | <0.01        | 0.013        |
|                                                                     |                           |                                                                   |                                   |               |             |                                          |               |                                 | Fruit               | 36                 | <0.01            | <0.01           | 0.26        | 0.010        | 0.011        |

#### C.3.1.2.7.2 Study 2

|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reference:    | Study on the residue behaviour of Mefentrifluconazole (BAS 750 F) on pome fruits after treatment with BAS 750 05 F under field conditions in Germany, Netherlands, Hungary, France (South), Greece, Italy and Spain, 2017, [REDACTED] 2018, Study ID: 742074, BASF DocID: 2018/1000732                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Guideline(s): | <p>7029/VI/95 rev. 5: Appendix B- General Recommendations for the design, preparation and realization of residue trials.</p> <p>Regulation (EC) No. 1107/2009 of the European Parliament and the Council of 21 October 2009 concerning the placing of plant protection products on the market and repealing Council Directives 79/117/EEC and 91/414/EEC</p> <p>European Community Guideline 7525/VI/95 - rev.10.2, 23 Sept. 2016: Comparability, extrapolation, group tolerances and data requirements for setting MRLs.</p> <p>OECD Guideline for the testing of chemicals – Crop Field Trials: OECD/OCDE 509. Adopted 7 September 2009.</p> <p>OECD Principles of Good Agricultural Practice and the GLP Principles of the German “Chemikaliengesetz” (Chemicals Act)</p> <p>Monograph OECD N° 1 series on Principles of Good Laboratory Practice and compliance monitoring.</p> <p>Monograph OECD n° 4. Quality Assurance and GLP.</p> <p>OECD Principles of Good Laboratory Practice. ENV/MC/CHEM (98)17, Paris 1998.</p> <p>Relevant national GLP-Regulations of Test sites’ countries.</p> <p>Organisation for Economic Co-operation and Development (OECD) Consensus Document of the Working Group on Good Laboratory Practice ‘The application of OECD Principles of GLP to the Organisation and Management of Multi-site studies’.</p> |

ENV/JM/MONO (2002)/9 No13.

Organisation for Economic Co-operation and Development (OECD) Principles of Good Laboratory Practice and Compliance Monitoring Number 6 (Revised) 'The Application of the GLP Principles to field studies'. ENV/JM/MONO (99)22.

Deviations: No

GLP: Yes

Validity of the study: Validated

### Materials and Methods

Four trials, two on apples and two on pears were conducted in southern France, Italy, Spain and Greece using 'BAS 750 05 F', an SC formulation containing 75 g/L mefentrifluconazole, in the 2017 growing season. It should be noted that an additional 4 trials were undertaken at regions across northern Europe. As the notified GAP relates to a southern Europe use, and the same GAP is not authorised in northern Europe, the additional trials have not been considered further.

'BAS 750 05 F' was applied as a foliar spray at a rate of 2 x 0.150 kg/ha (2 x 0.148 – 0.165 kg/ha) mefentrifluconazole in 788 - 878 L/ha of water. Two applications were made with a 9-11 day RTI and with last application at BBCH 77-81, the PHI was 27-28 days. The applications were within  $\pm 25\%$  of the notified critical GAP (2 x 150 g/ha, 28 day PHI, 7 day RTI), except the RTI. However, the residue levels of parent mefentrifluconazole and TDMs are comparable regardless of RTI within the range tested, a previous assessment of apples and pears (HSE 2023) showed that in most trials the residues were higher at the longer RTIs than at a 7 day RTI. Therefore, the trials are considered to support the cGAP despite falling outside 25% of the notified GAP.

As apples and pears are tall crops, residues may be driven by spray concentration due to direct application to the plant and the fact that the spray is often applied to run off. It is noted that the maximum spray concentration of the notified cGAP is 100 g a.s./hL (water volume: 150 L). The spray concentration used in the trials is 19 g a.s./hL (water volume: 500). From the trials data it is not possible to determine whether it is application rate or spray concentration which is predominantly driving the residue. However, previously assessed trials (HSE, 2023) on other fruit and fruiting vegetable crops show that the spray concentration does not have a significant effect on residues, therefore the trials support the notified use.

Weather data were reported for the trials and no exceptional events were noted. The trials were decline trials, samples of fruit were taken at 0, 20/21, 27/28 and 34/35 days after last application, except for trial L170174 which did not sample at 35 DALA as there was no fruit available to sample. As a sufficient amount of fruit was available at 28 DALA, this deviation is not considered to adversely impact the trial. Samples containing at least 2 kg were collected from both treated and control plots except for the samples harvested at 0 DALA which contained at least 1kg. As the residues data at this PHI is not used for evaluation purposes and as sufficient sample was available to allow analysis, this is considered acceptable in this case. Samples were frozen within 6 hours and stored at  $\leq -18^{\circ}\text{C}$  until analysis. The maximum storage interval between harvest and analysis for mefentrifluconazole was 172 days. Data was considered in the DAR which demonstrates stability of mefentrifluconazole for this period of time in high water crops when stored at  $\leq -18^{\circ}\text{C}$  (EFSA, 2018b).

The maximum storage interval between harvest and analysis for TDMs was 181 days. Data was considered in the TDM Review (EFSA, 2018a) which demonstrates stability of TDMs for this period of time in high water crops when stored at  $\leq -18^{\circ}\text{C}$ . Analysis for mefentrifluconazole was performed using LC-MS/MS (method L0076/09) with an LOQ of 0.01 mg/kg. Analysis for TDMs were performed using LC-DMS-MS/MS (method L0170/02) with an LOQ of 0.01 mg/kg per analyte.

## Results and Discussion

The analytical method for analysing residues of mefentrifluconazole (L0076/09) was satisfactorily validated in accordance with SANCO 3029/99 rev. 4 on high water commodities (UK, 2018b). The LOQ of the method is 0.01 mg/kg. The method was considered applicable to apples as 12 procedural recoveries (mean recovery 97.7%) across the 0.01, 0.10 and 1.0 mg/kg fortification levels. The method was considered applicable to pears as 7 procedural recoveries (mean recovery 100%) across the 0.01, 0.10 and 1.0 mg/kg fortification levels.

The analytical method for analysing residues of TDMs (L0170/02) was satisfactorily validated in accordance with SANCO 3029/99 rev. 4 on high water commodities (UK 2018). The LOQ of the method is 0.01 mg/kg per analyte. The method was considered applicable to apples as 8 procedural recoveries were provided for across the 0.01 and 0.1 and 1.0 mg/kg fortification levels for each TDM (mean recoveries 105-107%). The method was considered applicable to pears as 8 procedural recoveries were provided for across the 0.01 and 0.1 and 1.0 mg/kg fortification levels for each TDM (mean recoveries 95.3-108%).

No residues of 1,2,4 -T or mefentrifluconazole were detected at or above the LOQ in untreated control samples. Residues of TAA (up to 0.012 mg/kg), TLA (up to 0.038 mg/kg) and TA (up to 0.13 mg/kg) were found in some untreated control samples.

Residues of mefentrifluconazole in apples and pears at 28 days after last application were between 0.26 – 0.1 mg/kg.

Residues of 1,2,4 -T in in apples and pears at 28 days after last application were <0.01 mg/kg.

Residues of TA in in apples and pears at 28 days after last application were between <0.01 – 0.12 mg/kg.

Residues of TAA in in apples and pears at 28 days after last application were <0.01 mg/kg.

Residues of TLA in in apples and pears at 28 days after last application were between <0.01 – 0.030 mg/kg.

A summary of the residue trials is given in Table C.3.1.2.7.2-1.

**Table C.3.1.2.7.2-1 Residue Trials on Apples and Pears**

|                              |                                                                                                                                                                                                                                                                                        |                                  |                                                                   |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------------------------------------|
| Reference:                   | Study on the residue behaviour of Mefentrifluconazole (BAS 750 F) on pome fruits after treatment with BAS 750 05 F under field conditions in Germany, Netherlands, Hungary, France (South), Greece, Italy and Spain, 2017, ██████████ 2018, Study ID: 742074, BASF DocID: 2018/1000732 |                                  |                                                                   |
| GLP:                         | Yes                                                                                                                                                                                                                                                                                    | Sample storage conditions:       | Mefentrifluconazole: 172 days, -18°C<br><br>TDMs: 181 days, -18°C |
| Crop/crop group:             | Apples and pears / Pome fruits                                                                                                                                                                                                                                                         | Analytical method:               | Mefentrifluconazole: L0076/09 and TDMs: L0170/02, validated       |
| Indoor/outdoor:              | Outdoor                                                                                                                                                                                                                                                                                | Limit of Quantification (mg/kg): | 0.01                                                              |
| Formulation:                 | SC                                                                                                                                                                                                                                                                                     | Residues calculated as:          | Mefentrifluconazole, 1,2,4-T, TA, TAA and TLA                     |
| Content of active substance: | 75 g/L                                                                                                                                                                                                                                                                                 |                                  |                                                                   |

| Report No.<br>Location<br>(EU-region)<br>trial No            | Commodity/<br>Variety     | Date of<br>1. Sowing or<br>planting<br>2. Flowering<br>3. Harvest | Appli<br>cation<br>rate<br>per<br>treat<br>ment |               |             | No. of<br>treatment<br>s and last<br>date | RTI<br>(days) | Growth<br>stage at<br>last<br>date | Portion<br>analysed              | DALA                | Residu (mg/kg<br>es ) |         |        |       |       |
|--------------------------------------------------------------|---------------------------|-------------------------------------------------------------------|-------------------------------------------------|---------------|-------------|-------------------------------------------|---------------|------------------------------------|----------------------------------|---------------------|-----------------------|---------|--------|-------|-------|
|                                                              |                           |                                                                   | kg<br>as/hL                                     | Water<br>L/ha | kg<br>as/ha |                                           |               |                                    |                                  |                     | BAS<br>750 F          | 1,2,4-T | TA     | TAA   | TLA   |
| #2018/1000732<br>44015 Portomaggiore<br>Italy (S)<br>L170172 | FP 0226<br>Apples<br>Fuji | 1. 1998<br>2. 03.-20.04.2017<br>3. 05.10.2017                     | 0.019                                           | 800           | 0.150       | 2<br>01.09.2017                           | 10            | 81                                 | Fruit<br>Fruit<br>Fruit<br>Fruit | 0<br>21<br>28<br>35 | 0.033                 | <0.01   | 0.051  | <0.01 | <0.01 |
|                                                              |                           |                                                                   |                                                 |               |             |                                           |               |                                    |                                  |                     | 0.020                 | <0.01   | 0.014  | <0.01 | <0.01 |
|                                                              |                           |                                                                   |                                                 |               |             |                                           |               |                                    |                                  |                     | 0.013                 | <0.01   | 0.013  | <0.01 | <0.01 |
|                                                              |                           |                                                                   |                                                 |               |             |                                           |               |                                    |                                  |                     | 0.026                 | <0.01   | 0.013  | <0.01 | <0.01 |
|                                                              |                           |                                                                   | -                                               | -             | -           | -                                         | -             | -                                  | -                                | -                   | <0.01                 | <0.01   | 0.052  | <0.01 | <0.01 |
|                                                              |                           |                                                                   |                                                 |               |             |                                           |               |                                    |                                  |                     | <0.01                 | <0.01   | <0.010 | <0.01 | <0.01 |
|                                                              |                           |                                                                   |                                                 |               |             |                                           |               |                                    |                                  |                     | <0.01                 | <0.01   | <0.010 | <0.01 | <0.01 |
|                                                              |                           |                                                                   |                                                 |               |             |                                           |               |                                    |                                  |                     | <0.01                 | <0.01   | <0.010 | <0.01 | <0.01 |

The evaluation of new MRLs for mefentrifluconazole in or on various commodities

| Report No.<br>Location<br>(EU-region)<br>trial No                  | Commodity/<br>Variety           | Date of<br>1. Sowing or<br>planting<br>2. Flowering<br>3. Harvest | Appli rate treat<br>cation per ment |               |             | No. of<br>treatment<br>s and last<br>date | RTI<br>(days) | Growth<br>stage at<br>last<br>date | Portion<br>analysed | DALA | Residu (mg/kg<br>es ) |                 |              |                 |                 |
|--------------------------------------------------------------------|---------------------------------|-------------------------------------------------------------------|-------------------------------------|---------------|-------------|-------------------------------------------|---------------|------------------------------------|---------------------|------|-----------------------|-----------------|--------------|-----------------|-----------------|
|                                                                    |                                 |                                                                   | kg<br>as/hL                         | Water<br>L/ha | kg<br>as/ha |                                           |               |                                    |                     |      | BAS<br>750 F          | 1,2,4-T         | TA           | TAA             | TLA             |
| #2018/1000732<br>ES-21292<br>Fuenteheridos<br>Spain (S)<br>L170173 | FP 0226<br>Apples<br>Royal Gala | 1. 2001<br>2. 08.-21.04.2017<br>3. 27.08.-<br>02.09.2017          | 0.019                               | 800           | 0.150       | 2<br>77.07.2017                           | 10            | 79                                 | Fruit               | 0    | 0.16                  | <0.01           | 0.16         | <0.01           | 0.027           |
|                                                                    |                                 |                                                                   |                                     |               |             |                                           |               |                                    | Fruit               | 21   | 0.072                 | <0.01           | 0.13         | <0.01           | 0.025           |
|                                                                    |                                 |                                                                   |                                     |               |             |                                           |               |                                    | Fruit               | 28   | <u>0.081</u>          | <u>&lt;0.01</u> | 0.12         | <0.01           | 0.027           |
|                                                                    |                                 |                                                                   |                                     |               |             |                                           |               |                                    | Fruit               | 35   | 0.070                 | <0.01           | 0.11         | <0.01           | 0.030           |
|                                                                    |                                 |                                                                   | -                                   | -             | -           | -                                         | -             | -                                  | Fruit               | 0    | <0.01                 | <0.01           | 0.18         | <0.01           | 0.031           |
|                                                                    |                                 |                                                                   |                                     |               |             |                                           |               |                                    | Fruit               | 21   | <0.01                 | <0.01           | 0.13         | 0.010           | 0.032           |
|                                                                    |                                 |                                                                   |                                     |               |             |                                           |               |                                    | Fruit               | 28   | <0.01                 | <0.01           | <u>0.13</u>  | <u>0.012</u>    | <u>0.038</u>    |
|                                                                    |                                 |                                                                   |                                     |               |             |                                           |               |                                    | Fruit               | 35   | <0.01                 | <0.01           | 0.10         | <0.01           | 0.028           |
| #2018/1000732<br>13870 Rognonas<br>France (S)<br>L170174           | FP 0230<br>Pears<br>Williams    | 1. 2001<br>2. 18.-27.03.2017<br>3. 12.08.2017                     | 0.019                               | 800           | 0.150       | 2<br>21.07.2017                           | 9             | 81                                 | Fruit               | 0    | 0.26                  | <0.01           | 0.070        | <0.01           | <0.01           |
|                                                                    |                                 |                                                                   |                                     |               |             |                                           |               |                                    | Fruit               | 21   | 0.13                  | <0.01           | 0.086        | <0.01           | <0.01           |
|                                                                    |                                 |                                                                   |                                     |               |             |                                           |               |                                    | Fruit               | 28   | <u>0.10</u>           | <u>&lt;0.01</u> | <u>0.074</u> | <u>&lt;0.01</u> | <u>&lt;0.01</u> |
|                                                                    |                                 |                                                                   | -                                   | -             | -           | -                                         | -             | -                                  | Fruit               | 0    | <0.01                 | <0.01           | 0.056        | <0.01           | <0.01           |
|                                                                    |                                 |                                                                   |                                     |               |             |                                           |               |                                    | Fruit               | 21   | <0.01                 | <0.01           | 0.056        | <0.01           | <0.01           |
|                                                                    |                                 |                                                                   |                                     |               |             |                                           |               |                                    | Fruit               | 28   | <0.01                 | <0.01           | 0.049        | <0.01           | <0.01           |
| #2018/1000732<br>GR 58300 Kria Vrissi<br>Greece (S)<br>L170175     | FP 0230<br>Pears<br>Sissy       | 1. 2005<br>2. 25.03.-<br>10.04.2017<br>3. 15.-30.08.2017          | 0.019                               | 800           | 0.150       | 2<br>14.07.2017                           | 10            | 77                                 | Fruit               | 0    | 0.12                  | <0.01           | 0.053        | <0.01           | <0.01           |
|                                                                    |                                 |                                                                   |                                     |               |             |                                           |               |                                    | Fruit               | 20   | 0.067                 | <0.01           | 0.080        | <0.01           | <0.01           |
|                                                                    |                                 |                                                                   |                                     |               |             |                                           |               |                                    | Fruit               | 27   | <u>0.047</u>          | <u>&lt;0.01</u> | <u>0.064</u> | <u>&lt;0.01</u> | <0.01           |
|                                                                    |                                 |                                                                   |                                     |               |             |                                           |               |                                    | Fruit               | 34   | 0.035                 | <0.01           | 0.055        | <0.01           | <0.01           |
|                                                                    |                                 |                                                                   | -                                   | -             | -           | -                                         | -             | -                                  | Fruit               | 0    | <0.01                 | <0.01           | 0.069        | <0.01           | 0.015           |
|                                                                    |                                 |                                                                   |                                     |               |             |                                           |               |                                    | Fruit               | 20   | <0.01                 | <0.01           | 0.079        | <0.01           | 0.013           |
|                                                                    |                                 |                                                                   |                                     |               |             |                                           |               |                                    | Fruit               | 27   | <0.01                 | <0.01           | 0.056        | <0.01           | <0.01           |
|                                                                    |                                 |                                                                   |                                     |               |             |                                           |               |                                    | Fruit               | 34   | <0.01                 | <0.01           | 0.058        | <0.01           | <u>0.010</u>    |

### **C3.1.2.4 Globe Artichoke**

#### **C.3.1.2.8.1 Study 1**

Reference: Study on the residue behaviour of Mefentrifluconazole (BAS 750 F) on artichoke after treatment with BAS 750 05 F under field conditions in Southern Europe, season 2019 [REDACTED] 2020, Study ID: 877936, BASF DocID: 2019/2075098

Guideline(s): Regulation (EC) no. 1107/2009 of the European Parliament and of the Council of 21 October 2009 concerning the placing of plant protection products on the market and repealing Council Directives 79/117/EEC and 91/414/EEC.

European Community Guidelines 7029/VI/95 – Rev. 5, 22/07/97: Appendix B- General Recommendations for the design, preparation and realization of residue trials.

OECD 509 – OECD Guideline for the testing of Chemicals Crop Field Trials 7th September 2009.

European Community Guideline SANCO 7525/VI/95 - rev.10.3, June 2017: Comparability, extrapolation, group tolerances and data requirements for setting MRLs.

Directive 2004/10/EC of the European Parliament and of the Council of 11th February 2004 on the harmonisation of laws, regulations and administrative provisions relating to the application of the principles of good laboratory practice and the verification of their applications for tests on chemical substances.

OECD Principles of Good Laboratory Practice and Compliance Monitoring Number 1. 'OECD Principles on Good Laboratory Practice'. ENV/MC/CHEM(98)17.

OECD Principles of Good Laboratory Practice and Compliance Monitoring Number 4. 'Quality Assurance and GLP'. ENV/JM/MONO(99)20.

OECD Principles of Good Laboratory Practice and Compliance Monitoring Number 6 (Revised). 'The

Application of the GLP Principles to field studies'.  
ENV/JM/MONO (99)22.

OECD Principles of Good Laboratory Practice and  
Compliance Monitoring Number 13. Consensus Document  
of the Working Group on Good Laboratory Practice 'The  
application of OECD Principles of GLP to the Organisation  
and Management of Multi-site studies'.  
ENV/JM/MONO(2002)/9.

Spanish R.D. 1369/2000 on 19th of July, whereby the  
Principles of Good Laboratory Practices and their  
application to the conduction of non-clinical studies on  
chemical substances and products are established.

Relevant national GLP-Regulations of Test site countries

Deviations: No

GLP: Yes

Validity of the study: Validated

## Materials and Methods

Two trials on globe artichokes were conducted in Italy and Spain using 'BAS 750 05 F', an SC formulation containing 75 g/L mefentrifluconazole, in the 2019 growing season.

'BAS 750 05 F' was applied as a foliar spray at a nominal rate of 3 x 112.5 g/ha (actual 3 x 104-118 g/ha) mefentrifluconazole, in 500 L/ha of water. Three applications were made with a 6-8 day RTI and with last application at BBCH 55-59, the PHI was 2-3 days., The applications were within  $\pm 25\%$  of the proposed critical GAP (3 x 113 g/ha, 3 day PHI, RTI 7 days, BBCH 15-59).

Weather data were reported for the trials and no exceptional events were noted. The trials were decline trials, samples of globe artichoke flower heads were taken at 0, 1, 2-3 and 6-7 days after last application. Samples containing at least 1 kg and consisting of 12 individual pieces were collected from both treated and control plots. Samples were frozen within 6 hours and stored at  $\leq -18$  °C until analysis.

The maximum storage interval between harvest and analysis for mefentrifluconazole was 191 days. Data was considered in the DAR which demonstrates stability of mefentrifluconazole for this period of time in high water crops when stored at  $\leq -18$  °C (EFSA, 2018b). The maximum storage interval between harvest and analysis for TDMs was 253 days. Data was considered in the TDM Review (EFSA, 2018a) which

demonstrates stability of TDMs for this period of time in high water crops when stored at  $\leq -18^{\circ}\text{C}$ . Analysis for mefentrifluconazole was performed using LC-MS/MS (method L0076/09) with an LOQ of 0.01 mg/kg. Analysis for TDMs were performed using LC-DMS-MS/MS (method L0170/02) with an LOQ of 0.01 mg/kg per analyte.

## Results and Discussion

The analytical method for analysing residues of mefentrifluconazole (L0076/09) was satisfactorily validated in accordance with SANCO 3029/99 rev. 4 on high water commodities (UK, 2018b). The LOQ of the method is 0.01 mg/kg. The method was considered applicable to globe artichokes as 8 procedural recoveries (mean recovery 89.8%) were provided across the 0.01, 0.1, 1.0 and 10 mg/kg fortification levels.

The analytical method for analysing residues of TDMs (L0170/02) was satisfactorily validated in accordance with SANCO 3029/99 rev. 4 on high water commodities (UK 2018). The LOQ of the method is 0.01 mg/kg. The method was considered applicable to globe artichokes as at least 8 procedural recoveries (mean recoveries 89.9-106%) were provided across the 0.01, 0.10 and 1.0 mg/kg fortification levels for each TDM.

No residues of 1,2,4 -T, TLA, TAA or mefentrifluconazole were found in untreated control samples. Residues of TA (up to 0.019 mg/kg) were found in some untreated control samples from one trial.

Residues of mefentrifluconazole in globe artichoke heads at 3 days after last application were between 0.23 – 0.31 mg/kg.

Residues of 1,2,4 -T in globe artichoke heads at 3 days after last application were  $<0.01$  mg/kg.

Residues of TA in globe artichoke heads at 3 days after last application were between 0.020 – 0.031 mg/kg.

Residues of TAA in globe artichoke heads at 3 days after last application were  $<0.01$  mg/kg.

Residues of TLA in globe artichoke heads at 3 days after last application were between  $<0.01$  – 0.012 mg/kg.

A summary of the residues trials is given in Table C.3.1.2.8.1-1.

**Table C.3.1.2.8.1.1 Residue Trials on Globe Artichoke**

|                              |                                                                                                                                                                                                       |                                  |                                                              |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------------------------------------|
| Reference:                   | Study on the residue behaviour of Mefentrifluconazole (BAS 750 F) on artichoke after treatment with BAS 750 05 F under field conditions in Southern Europe, season 2019 ██████████ 2020, 2019/2075098 |                                  |                                                              |
| GLP:                         | Yes                                                                                                                                                                                                   | Sample storage conditions:       | Mefentrifluconazole: 193days and -18°C TDMs: 253 days, -18°C |
| Crop/crop group:             |                                                                                                                                                                                                       | Analytical method:               | L0076/09 and L0170/02, validated                             |
| Indoor/outdoor:              | Outdoor                                                                                                                                                                                               | Limit of Quantification (mg/kg): | 0.01                                                         |
| Formulation:                 | SC                                                                                                                                                                                                    | Residues calculated as:          | Mefentrifluconazole, 1,2,4-T, TA, TAA and TLA                |
| Content of active substance: | 75 g/L                                                                                                                                                                                                |                                  |                                                              |

| Report No.<br>Location<br>(EU-region)<br>trial No                | Commodity<br>/<br>Variety                                         | Date of<br>1. Sowing or<br>planting<br>2. Flowering<br>3. Harvest | Applic rate treatm<br>ation per ent |               |             | No. of<br>treatments<br>and last<br>date | RTI<br>(days) | Growt<br>h<br>stage<br>at last<br>date | Portion<br>analyse<br>d | DAL<br>A | Resid (mg/kg<br>ues ) |         |       |        |        |
|------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------|---------------|-------------|------------------------------------------|---------------|----------------------------------------|-------------------------|----------|-----------------------|---------|-------|--------|--------|
|                                                                  |                                                                   |                                                                   | kg<br>as/hL                         | Water<br>L/ha | kg<br>as/ha |                                          |               |                                        |                         |          | BAS<br>750 F          | 1,2,4-T | TA    | TAA    | TLA    |
| 2019/2075098<br>94010 Enna, Assoro<br>Italy<br>(S-EU)<br>L190354 | Artichoke,<br>globe<br>VS 0620<br>CYUSC<br>Violetto di<br>Sicilia | 1. 10.07.2018<br>2. n.a.<br>3. 10.05.2019                         | 0.0225                              | 500           | 0.1125      | 3<br>07.05.2019                          | 6-8           | BBCH<br>55-59                          | Flower                  | 0        | 0.27                  | <0.010  | 0.025 | <0.010 | <0.010 |
|                                                                  |                                                                   |                                                                   |                                     |               |             |                                          |               |                                        | Head                    | 1        | 0.25                  | <0.010  | 0.019 | <0.010 | <0.010 |
|                                                                  |                                                                   |                                                                   |                                     |               |             |                                          |               |                                        | Head                    | 2        | 0.23                  | <0.010  | 0.015 | <0.010 | <0.010 |
|                                                                  |                                                                   |                                                                   |                                     |               |             |                                          |               |                                        | Head                    | 6        | 0.19                  | <0.010  | 0.020 | <0.010 | <0.010 |

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| Report No.<br>Location<br>(EU-region)<br>trial No                    | Commodity<br>/<br>Variety                                      | Date of<br>1. Sowing or<br>planting<br>2. Flowering<br>3. Harvest | Applic rate treatm<br>ation per ent |               |             | No. of<br>treatments<br>and last<br>date | RTI<br>(days) | Growt<br>h<br>stage<br>at last<br>date | Portion<br>analyse<br>d        | DAL<br>A         | Resid (mg/kg<br>ues )                |                                      |                                      |                                      |                                      |
|----------------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------|---------------|-------------|------------------------------------------|---------------|----------------------------------------|--------------------------------|------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
|                                                                      |                                                                |                                                                   | kg<br>as/hL                         | Water<br>L/ha | kg<br>as/ha |                                          |               |                                        |                                |                  | BAS<br>750 F                         | 1,2,4-T                              | TA                                   | TAA                                  | TLA                                  |
|                                                                      |                                                                |                                                                   | -                                   | -             | -           | -                                        | -             | -                                      | Flower<br>Head<br>Head<br>Head | 0<br>1<br>2<br>6 | <0.010<br><0.010<br><0.010<br><0.010 | <0.010<br><0.010<br><0.010<br><0.010 | <0.010<br><0.010<br><0.010<br><0.010 | <0.010<br><0.010<br><0.010<br><0.010 | <0.010<br><0.010<br><0.010<br><0.010 |
| 2019/2075098<br>41020 Sevilla, Sevilla<br>Spain<br>(S-EU)<br>L190355 | Artichoke,<br>globe<br>VS 0620<br>CYUSC<br>Blanca de<br>Tudela | 1. 09.2018<br>2. n.a.<br>3. 05.04.2019 –<br>13.05.2019            | 0.0225                              | 500           | 0.1125      | 3<br>06.05.2019                          | 7             | BBCH<br>57-59                          | Flower                         | 0                | 0.40                                 | <0.010                               | 0.024                                | <0.010                               | <0.010                               |
|                                                                      |                                                                |                                                                   |                                     |               |             |                                          |               |                                        | head                           | 1                | 0.26                                 | <0.010                               | 0.026                                | <0.010                               | 0.014                                |
|                                                                      |                                                                |                                                                   |                                     |               |             |                                          |               |                                        | Head                           | 3                | 0.31                                 | <0.010                               | 0.024                                | <0.010                               | 0.012                                |
|                                                                      |                                                                |                                                                   |                                     |               |             |                                          |               |                                        | Head                           | 7                | 0.27                                 | <0.010                               | 0.031                                | <0.010                               | <0.010                               |
|                                                                      |                                                                |                                                                   | -                                   | -             | -           | -                                        | -             | -                                      | Flower                         | 0                | <0.010                               | <0.010                               | 0.017                                | <0.010                               | <0.010                               |
|                                                                      |                                                                |                                                                   |                                     |               |             |                                          |               |                                        | head                           | 1                | <0.010                               | <0.010                               | 0.018                                | <0.010                               | <0.010                               |
|                                                                      |                                                                |                                                                   |                                     |               |             |                                          |               |                                        | Head                           | 3                | <0.010                               | <0.010                               | 0.019                                | <0.010                               | <0.010                               |
|                                                                      |                                                                |                                                                   |                                     |               |             |                                          |               |                                        | Head                           | 7                | <0.010                               | <0.010                               | 0.018                                | <0.010                               | <0.010                               |

#### **C.3.1.2.8.2 Study 2**

Reference: Study on the residue behaviour of Mefentrifluconazole (BAS 750 F) on artichoke after treatment with BAS 750 11 F under field conditions in Southern Europe, season 2020, [REDACTED] 2021, Study ID: 884416, BASF Doc ID: 2020/2103080

Guidelines: Regulation (EC) no. 1107/2009 of the European Parliament and of the Council of 21 October 2009 concerning the placing of plant protection products on the market and repealing Council Directives 79/117/EEC and 91/414/EEC.

European Community Guidelines 7029/VI/95 – Rev. 5, 22/07/97: Appendix B- General Recommendations for the design, preparation and realization of residue trials.

OECD 509 – OECD Guideline for the testing of Chemicals Crop Field Trials 7th September 2009.

European Community Guideline SANCO 7525/VI/95 - rev.10.3, June 2017: Comparability, extrapolation, group tolerances and data requirements for setting MRLs.

Directive 2004/10/EC of the European Parliament and of the Council of 11th February 2004 on the harmonisation of laws, regulations and administrative provisions relating to the application of the principles of good laboratory practice and the verification of their applications for tests on chemical substances.

OECD Principles of Good Laboratory Practice and Compliance Monitoring Number 1. 'OECD Principles on Good Laboratory Practice'. ENV/MC/CHEM(98)17.

OECD Principles of Good Laboratory Practice and Compliance Monitoring Number 4. 'Quality Assurance and GLP'. ENV/JM/MONO(99)20.

OECD Principles of Good Laboratory Practice and Compliance Monitoring Number 6 (Revised). 'The Application of the GLP Principles to field studies'. ENV/JM/MONO (99)22.

OECD Principles of Good Laboratory Practice and Compliance Monitoring Number 13. Consensus Document of the Working Group on Good Laboratory Practice 'The application of OECD Principles of GLP to the Organisation and Management of Multi-site studies'. ENV/JM/MONO(2002)/9.

Spanish R.D. 1369/2000 on 19th of July, whereby the Principles of Good Laboratory Practices and their application to the conduction of non-clinical studies on chemical substances and products are established.

Relevant national GLP-Regulations of Test site countries

Deviations: No

GLP: Yes

Validity of the study: Validated

## Materials and methods

Two trials on globe artichokes were conducted in Italy and Spain using 'BAS 750 05 F', an SC formulation containing 75 g/L mefentrifluconazole, in the 2020 growing season.

'BAS 750 05 F' was applied as a foliar spray at a rate of 3 x 112.5 g/ha mefentrifluconazole, in 500 L/ha of water. Three applications were made with a 6-8 day RTI and with last application at BBCH 55-59, the PHI was 3 days.. The applications were within  $\pm 25\%$  of the proposed critical GAP (3 x 113 g/ha, 3 day PHI, RTI of at least 7 days, BBCH 15-59).

Weather data were reported for the trials and no exceptional events were noted. The trials were decline trials, samples of globe artichoke flower heads were taken at 0, 1, 3 and 6-8 days after last application. Samples containing at least 1 kg and consisting of 12 individual pieces were collected from both treated and control plots. Samples were frozen within 6 hours and stored at  $\leq -18$  °C until analysis.

The maximum storage interval between harvest and analysis for mefentrifluconazole was 136 days. Data was considered in the DAR which demonstrates stability of mefentrifluconazole for this period of time in high water crops when stored at  $\leq -18$  °C (EFSA, 2018b).

The maximum storage interval between harvest and analysis for mefentrifluconazole was 129 days. Data was considered in the TDM Review (EFSA, 2018a) which demonstrates stability of TDMs for this period of time in high water crops when stored at  $\leq -18$  °C Analysis

for mefentrifluconazole was performed using LC-MS/MS (method L0076/09) with an LOQ of 0.01 mg/kg. Analysis for TDMs were performed using LC-DMS-MS/MS (method L0170/02) with an LOQ of 0.01 mg/kg per analyte.

## Results and Discussion

The analytical method for analysing residues of mefentrifluconazole (L0076/09) was satisfactorily validated in accordance with SANCO 3029/99 rev. 4 on high water commodities (UK, 2018b). The LOQ of the method is 0.01 mg/kg. The method was considered applicable to globe artichokes as 7 procedural recoveries (mean recovery 93.2%) were provided across the 0.01, 0.1 and 1.0 mg/kg fortification levels.

The analytical method for analysing residues of TDMs (L0170/02) was satisfactorily validated in accordance with SANCO 3029/99 rev. 4 on high water commodities (UK 2018). The LOQ of the method is 0.01 mg/kg. The method was considered applicable to globe artichokes as 7 procedural recoveries (mean recoveries 86.5-102%) were provided across the 0.01, 0.10 and 1.0 mg/kg fortification levels for each TDM.

No residues of 1,2,4 -T, TLA, TAA or mefentrifluconazole were found in untreated control samples at or above the LOQ. Residues of TA (up to 0.039 mg/kg) were found in all untreated control samples.

Residues of mefentrifluconazole in globe artichoke heads at 3 days after last application were between 0.13 – 0.27 mg/kg.

Residues of 1,2,4 -T in globe artichoke heads at 3 days after last application were <0.01 mg/kg.

Residues of TA in globe artichoke heads at 3 days after last application were between 0.045 - 0.063 mg/kg.

Residues of TAA in globe artichoke heads at 3 days after last application were <0.01 mg/kg.

Residues of TLA in globe artichoke heads at 3 days after last application were <0.01 mg/kg.

A summary of the residues trials is given in Table C.3.1.2.8.2.-1.

**Table C.3.1.2.8.1.1 Residue Trials on Globe Artichoke**

|                              |                                                                                                                                                                                                                                       |                                  |                                                                |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------------------------------------------------------------|
| Reference:                   | Study on the residue behaviour of Mefentrifluconazole (BAS 750 F) on artichoke after treatment with BAS 750 11 F under field conditions in Southern Europe, season 2020, ██████████ 2021, Study ID: 884416, BASF Doc ID: 2020/2103080 |                                  |                                                                |
| GLP:                         | Yes                                                                                                                                                                                                                                   | Sample storage conditions:       | Mefentrifluconazole 136 days and -18°C TDMs 129 days and -18°C |
| Crop/crop group:             | Globe artichoke / stem vegetable                                                                                                                                                                                                      | Analytical method:               | L0076/09 and L0170/02, validated                               |
| Indoor/outdoor:              | Outdoor                                                                                                                                                                                                                               | Limit of Quantification (mg/kg): | 0.01                                                           |
| Formulation:                 | SC                                                                                                                                                                                                                                    | Residues calculated as:          | Mefentrifluconazole, 1,2,4-T, TA, TAA and TLA                  |
| Content of active substance: | 75 g/L                                                                                                                                                                                                                                |                                  |                                                                |

| Report No.<br>Location<br>(EU-region)<br>trial No                | Commodity/<br>Variety                                             | Date of<br>1. Sowing or<br>planting<br>2. Flowering<br>3. Harvest | Applic rate treatm<br>ation per ent |               |             | No. of<br>treatments<br>and last<br>date | RTI<br>(days) | Growth<br>stage<br>at last<br>date | Portion<br>analyse<br>d        | DAL<br>A         | Residu (mg/kg<br>es ) |                  |              |                  |                  |
|------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------|---------------|-------------|------------------------------------------|---------------|------------------------------------|--------------------------------|------------------|-----------------------|------------------|--------------|------------------|------------------|
|                                                                  |                                                                   |                                                                   | kg<br>as/hL                         | Water<br>L/ha | kg<br>as/ha |                                          |               |                                    |                                |                  | BAS<br>750 F          | 1,2,4-T          | TA           | TAA              | TLA              |
| 2020/2103080<br>94010 Calascibetta<br>Italy<br>(S-EU)<br>L200168 | Artichoke,<br>globe<br>VS 0620<br>CYUSC<br>Violetto di<br>Sicilia | 1. 2018<br>2. n.a.<br>3. 03.04.2020                               | 0.0225                              | 510           | 0.115       | 3<br>31.03.2020                          | 7             | BBCH<br>55-59                      | Flower<br>head<br>head<br>head | 0<br>1<br>3<br>6 | 0.27                  | <0.010           | 0.042        | <0.010           | <0.010           |
|                                                                  |                                                                   |                                                                   | 0.0255                              | 492           | 0.111       |                                          |               |                                    |                                |                  | 0.30                  | <0.010           | 0.060        | <0.010           | <0.010           |
|                                                                  |                                                                   |                                                                   | 0.0255                              | 490           | 0.110       |                                          |               |                                    |                                |                  | <u>0.27</u>           | <u>&lt;0.010</u> | 0.046        | <u>&lt;0.010</u> | <u>&lt;0.010</u> |
|                                                                  |                                                                   |                                                                   |                                     |               |             |                                          |               |                                    |                                |                  | 0.19                  | <0.010           | <u>0.063</u> | <0.010           | <0.010           |

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| Report No.<br>Location<br>(EU-region)<br>trial No                         | Commodity/<br>Variety                               | Date of<br>1. Sowing or<br>planting<br>2. Flowering<br>3. Harvest | Applic<br>ation<br>rate<br>per<br>treatm<br>ent |               |             | No. of<br>treatments<br>and last<br>date | RTI<br>(days) | Growth<br>stage<br>at last<br>date | Portion<br>analyse<br>d        | DAL<br>A         | Residu (mg/kg<br>es<br>)             |                                      |                                  |                                      |                                      |  |  |  |
|---------------------------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------|---------------|-------------|------------------------------------------|---------------|------------------------------------|--------------------------------|------------------|--------------------------------------|--------------------------------------|----------------------------------|--------------------------------------|--------------------------------------|--|--|--|
|                                                                           |                                                     |                                                                   | kg<br>as/hL                                     | Water<br>L/ha | kg<br>as/ha |                                          |               |                                    |                                |                  | BAS<br>750 F                         | 1,2,4-T                              | TA                               | TAA                                  | TLA                                  |  |  |  |
|                                                                           |                                                     |                                                                   | -                                               | -             | -           | -                                        | -             | -                                  | Flower<br>Head<br>Head<br>Head | 0<br>1<br>3<br>6 | <0.010<br><0.010<br><0.010<br><0.010 | <0.010<br><0.010<br><0.010<br><0.010 | 0.021<br>0.018<br>0.019<br>0.039 | <0.010<br><0.010<br><0.010<br><0.010 | <0.010<br><0.010<br><0.010<br><0.010 |  |  |  |
| 2020/2103080<br>41318 Villaverde del<br>Río<br>Spain<br>(S-EU)<br>L200169 | Artichoke,<br>globe<br>VS 0620<br>CYUSC<br>Symphony | 1. 2019<br>2. n.a.<br>3. 24.03.2020 –<br>27.03.2020               | 0.0225                                          | 528           | 0.119       | 3<br>24.03.2020                          | 6-8           | BBCH<br>55-59                      | Flower                         | 0                | 0.43                                 | <0.010                               | 0.038                            | <0.010                               | <0.010                               |  |  |  |
|                                                                           |                                                     |                                                                   | 0.0225                                          | 523           | 0.0118      |                                          |               |                                    | Head                           | 1                | 0.40                                 | <0.010                               | 0.034                            | <0.010                               | <0.010                               |  |  |  |
|                                                                           |                                                     |                                                                   | 0.0225                                          | 513           | 0.0116      |                                          |               |                                    | Head                           | 3                | <u>0.13</u>                          | <u>&lt;0.010</u>                     | 0.033                            | <u>&lt;0.010</u>                     | <u>&lt;0.010</u>                     |  |  |  |
|                                                                           |                                                     |                                                                   |                                                 |               |             |                                          |               |                                    | Head                           | 8                | 0.060                                | <0.010                               | <u>0.045</u>                     | <0.010                               | <0.010                               |  |  |  |
|                                                                           |                                                     |                                                                   | -                                               | -             | -           | -                                        | -             | -                                  | Flower                         | 0                | <0.010                               | <0.010                               | 0.016                            | <0.010                               | <0.010                               |  |  |  |
|                                                                           |                                                     |                                                                   |                                                 |               |             |                                          |               |                                    | Head                           | 1                | <0.010                               | <0.010                               | 0.023                            | <0.010                               | <0.010                               |  |  |  |
|                                                                           |                                                     |                                                                   |                                                 |               |             |                                          |               |                                    | Head                           | 3                | <0.010                               | <0.010                               | 0.024                            | <0.010                               | <0.010                               |  |  |  |
|                                                                           |                                                     |                                                                   |                                                 |               |             |                                          |               |                                    | Head                           | 8                | <0.010                               | <0.010                               | 0.023                            | <0.010                               | <0.010                               |  |  |  |

### C.3.1.2.9 Head Lettuce

#### C.3.1.2.9.1 Study 1

|                        |                                                                                                                                                                                                                                                            |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reference:             | Magnitude of the Residues of BAS 750 F in Leafy Vegetables Raw Agricultural Commodities Following Applications of BAS 750 02 [REDACTED] 2019, study number: 744167, document no: 2019/7002361                                                              |
| Guideline(s):          | U.S. EPA Residue Chemistry Test Guidelines,<br><br>OPPTS 860.1000 Background<br><br>OPPTS 860.1500 Crop Field Trials<br><br>PMRA DIR98-02 and DIR2010-05 Residue Chemistry Guidelines<br><br>SPN2017-02 Joint Canada/United States Field Trial Requirement |
| Deviations:            | No                                                                                                                                                                                                                                                         |
| GLP:                   | Yes                                                                                                                                                                                                                                                        |
| Validity of the study: | Validated                                                                                                                                                                                                                                                  |

### Materials and methods

Eight trials on head lettuces were conducted in the USA and Canada using 'BAS 750 02 F', an SC formulation containing 400 g/L active, in the 2018 and 2019 growing seasons. It should be noted that the study also included trials on leaf lettuce, spinach and mustard greens. As the notified use is for head lettuce, these trials have not been considered further.

'BAS 750 02 F' was applied as a foliar spray at a nominal rate of 3 x 152 g/ha (147 – 157 g/ha actual) mefentrifluconazole in 196-281 L/ha of water. Three applications were made with a 6-8 day RTI and with last application at BBCH 49, the PHI was 0 days. The applications were within  $\pm 25\%$  of the proposed critical GAP (3 x 146 g/ha, 0 day PHI, 7 day RTI). The latest BBCH of normal commercial harvest of head lettuce leaves is BBCH 49. The BBCH at the last application in the trials was BBCH 49 which is very close to, or the same principle growth stage of normal commercial harvest.

Weather data were reported for the trials and no exceptional events were noted. Two of the trials were in the same location however the trials were on different varieties of head lettuce and the applications were 165 days apart, therefore the trials were sufficiently independent. The trials contained one decline trials, where samples of head lettuce were taken at 0, 3, 5, 7 and 10 days after last application. The rest of the trials were at harvest trials. This is acceptable because the PHI is 0 days so residues of mefentrifluconazole are expected to be highest on the day of harvest, this is supported by the one decline trial provided. Samples containing at least 2 kg and consisting of 12 individual pieces were collected from both

treated and control plots. Samples were frozen within 4 hours, and stored at  $\leq -20$  °C. until analysis.

The maximum storage interval for mefentrifluconazole and TDMs between harvest and analysis was 306 days. Data was considered in the DAR which demonstrates stability of mefentrifluconazole for this period of time in high water crops when stored at  $\leq -18$  °C (EFSA, 2018b). Data was considered in the TDM Review (EFSA, 2018a) which demonstrates stability of TDMs for this period of time in high water crops when stored at  $\leq -18$  °C.

Analysis for mefentrifluconazole was performed using LC-MS/MS method D1511/01 with an LOQ of 0.01 mg/kg. Analysis for TDMs were performed using LC-MS/MS method 01062/M004 with an LOQ of 0.01 mg/kg per analyte.

## Results and discussions

The analytical method for analysing residues of mefentrifluconazole (D1511/01) was satisfactorily validated in accordance with SANCO 3029/99 rev. 4 on high water commodities in a previous ER/RO (HSE, 2023). The LOQ of the method is 0.01 mg/kg. The method was considered applicable to head lettuce as 10 procedural recoveries (mean recoveries 89-93%) were provided across the 0.01, 1.0 and 5.0 mg/kg fortification levels.

The analytical method for analysing residues of TDMs (01062/M004) was satisfactorily validated in accordance with SANCO 3029/99 rev. 4 on high water commodities during approval of the active (UK, 2018b). The LOQ of the method is 0.01 mg/kg per analyte. The method was considered applicable to head lettuce as at least 6 procedural recoveries (mean recoveries 76-109%) were provided across the 0.01, and 1.0 mg/kg fortification levels for each TDM.

No residues of 1,2,4 -T, TLA, TAA, TA or mefentrifluconazole were found in untreated control samples of head lettuce at or above the LOQ.

Residues of mefentrifluconazole in head lettuce with wrapper leaves at zero days after last application were between 0.12 – 2.15 mg/kg.

Residues of 1,2,4 -T, TAA and TLA in head lettuce with wrapper leaves at zero days after last application were  $<0.01$  mg/kg.

Residues of TA in head lettuce with wrapper leaves at zero days after last application were between  $<0.01$  – 0.013 mg/kg.

A summary of the residues trials is given in Table C.3.1.2.9.1-1.

**Table C.3.1.2.1-1 Residue trials on Lettuce**

|                              |                                                                                                                                                                                               |                                  |                                                 |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------------------|
| Reference:                   | Magnitude of the Residues of BAS 750 F in Leafy Vegetables Raw Agricultural Commodities Following Applications of BAS 750 02 [REDACTED] 2019, study number: 744167, document no: 2019/7002361 |                                  |                                                 |
| GLP:                         | Yes                                                                                                                                                                                           | Sample storage conditions:       | Mefentrifluconazole and TDMs 306 days and -20°C |
| Crop/crop group:             | Lettuce / Leafy Vegetables                                                                                                                                                                    | Analytical method:               | D1511/01 and 01062/M004, validated              |
| Indoor/outdoor:              | Outdoor                                                                                                                                                                                       | Limit of Quantification (mg/kg): | 0.01                                            |
| Formulation:                 | SC                                                                                                                                                                                            | Residues calculated as:          | Mefentrifluconazole, 1,2,4-T, TA, TAA and TLA   |
| Content of active substance: | 400 g/L                                                                                                                                                                                       |                                  |                                                 |

| Report No.<br>Location<br>(EU-region)<br>trial No          | Commodity/<br>Variety                 | Date of<br>1. Sowing or<br>planting<br>2. Flowering<br>3. Harvest | Applic<br>ation rate per treatm<br>ent |               |             | No. of<br>treatments<br>and last<br>date | RTI<br>(days) | Growth<br>stage<br>at last<br>date | Portion<br>analysed                             | DALA | Residu (mg/kg<br>es) <sup>1</sup> |         |       |       |       |
|------------------------------------------------------------|---------------------------------------|-------------------------------------------------------------------|----------------------------------------|---------------|-------------|------------------------------------------|---------------|------------------------------------|-------------------------------------------------|------|-----------------------------------|---------|-------|-------|-------|
|                                                            |                                       |                                                                   | kg<br>as/hL                            | Water<br>L/ha | kg<br>as/ha |                                          |               |                                    |                                                 |      | BAS<br>750 F                      | 1,2,4-T | TA    | TAA   | TLA   |
| 2019/7002361<br>744167<br>Elmira, ON,<br>Canada<br>R180036 | Head lettuce<br>VL 0482<br>Butterhead | 1. 19.06.18<br>2. n.a.<br>3. 27.07.18                             | 0.075                                  | 206           | 0.155       | 3                                        | 7-8           | BBCH<br>49                         | With wrapper<br>leaves<br>W/o wrapper<br>leaves | 0    | 2.05                              | <0.01   | <0.01 | <0.01 | <0.01 |
|                                                            |                                       |                                                                   | 0.075                                  | 206           | 0.155       |                                          |               |                                    |                                                 |      | 1.55                              | <0.01   | <0.01 | <0.01 | <0.01 |
|                                                            |                                       |                                                                   | 0.076                                  | 206           | 0.157       | 27.07.2018                               |               |                                    |                                                 |      |                                   |         |       |       |       |
|                                                            |                                       |                                                                   | -                                      | -             | -           | -                                        | -             | -                                  | With wrapper<br>leaves                          | 0    | <0.01                             | <0.01   | <0.01 | <0.01 | <0.01 |

The evaluation of new MRLs for mefentrifluconazole in or on various commodities

| Report No.<br>Location<br>(EU-region)<br>trial No              | Commodity/<br>Variety              | Date of<br>1. Sowing or<br>planting<br>2. Flowering<br>3. Harvest | Applic rate treatm<br>ation per ent |               |             | No. of<br>treatments<br>and last<br>date | RTI<br>(days) | Growth<br>stage<br>at last<br>date | Portion<br>analysed    | DALA | Residu (mg/kg<br>es ) <sup>1</sup> |                 |                 |                 |                 |
|----------------------------------------------------------------|------------------------------------|-------------------------------------------------------------------|-------------------------------------|---------------|-------------|------------------------------------------|---------------|------------------------------------|------------------------|------|------------------------------------|-----------------|-----------------|-----------------|-----------------|
|                                                                |                                    |                                                                   | kg<br>as/hL                         | Water<br>L/ha | kg<br>as/ha |                                          |               |                                    |                        |      | BAS<br>750 F                       | 1,2,4-T         | TA              | TAA             | TLA             |
| 2019/7002361<br>744167<br>Richland, IA,<br>USA<br>R180037      | Head lettuce<br>VL 0482<br>Deuce   | 1. 18.05.18                                                       | 0.075                               | 196           | 0.147       | 3<br>05.07.2018                          | 6-7           | BBCH<br>49                         | With wrapper<br>leaves | 0    | <u>0.32</u>                        | <u>&lt;0.01</u> | <u>0.013</u>    | <u>&lt;0.01</u> | <u>&lt;0.01</u> |
|                                                                |                                    |                                                                   | 0.074                               | 206           | 0.152       |                                          |               |                                    | W/o wrapper<br>leaves  | 0    | <0.01                              | <0.01           | 0.02            | <0.01           | <0.01           |
|                                                                |                                    |                                                                   | 0.057                               | 262           | 0.150       |                                          |               |                                    | With wrapper<br>leaves | 0    | <0.01                              | <0.01           | <0.01           | <0.01           | <0.01           |
| 2019/7002361<br>744167<br>Arroyo Grande, CA,<br>USA<br>R180038 | Head lettuce<br>VL 0482<br>Regency | 1. 21.08.18<br>2. n.a.<br>3. 07.10.18                             | 0.054                               | 281           | 0.151       | 3<br>07.10.2018                          | 7             | BBCH<br>49                         | With wrapper<br>leaves | 0    | <u>1.50</u>                        | <u>&lt;0.01</u> | <u>&lt;0.01</u> | <u>&lt;0.01</u> | <u>&lt;0.01</u> |
|                                                                |                                    |                                                                   | 0.054                               | 281           | 0.152       |                                          |               |                                    | W/o wrapper<br>leaves  | 0    | 0.09                               | <0.01           | <0.01           | <0.01           | <0.01           |
|                                                                |                                    |                                                                   | 0.054                               | 281           | 0.151       |                                          |               |                                    | With wrapper<br>leaves | 0    | <0.01                              | <0.01           | <0.01           | <0.01           | <0.01           |
| 2019/7002361<br>744167<br>King City, CA,<br>USA<br>R180039     | Head lettuce<br>VL 0482<br>Regency | 1. 24.09.18<br>2. n.a.<br>3. 03.12.18                             | 0.072                               | 215           | 0.154       | 3<br>03.12.2018                          | 6-7           | BBCH<br>49                         | With wrapper<br>leaves | 0    | <u>0.885</u>                       | <u>&lt;0.01</u> | <u>&lt;0.01</u> | <u>&lt;0.01</u> | <u>&lt;0.01</u> |
|                                                                |                                    |                                                                   | 0.057                               | 262           | 0.150       |                                          |               |                                    | W/o wrapper<br>leaves  | 0    | 0.455                              | <0.01           | <0.01           | <0.01           | <0.01           |
|                                                                |                                    |                                                                   | 0.057                               | 271           | 0.154       |                                          |               |                                    | With wrapper<br>leaves | 0    | <0.01                              | <0.01           | <0.01           | <0.01           | <0.01           |
| 2019/7002361<br>744167<br>Porterville, CA,<br>USA<br>R180040   | Head lettuce<br>VL 0482<br>Regency | 1. 06.09.18<br>2. n.a.<br>3. 14.-24.11.18                         | 0.053                               | 281           | 0.150       | 3<br>14.11.2018                          | 7             | BBCH<br>49                         | With wrapper<br>leaves | 0    | <u>2.15</u>                        | <u>&lt;0.01</u> | <u>&lt;0.01</u> | <u>&lt;0.01</u> | <u>&lt;0.01</u> |
|                                                                |                                    |                                                                   | 0.055                               | 271           | 0.150       |                                          |               |                                    | With wrapper<br>leaves | 3    | 1.55                               | <0.01           | <0.01           | <0.01           | <0.01           |
|                                                                |                                    |                                                                   | 0.054                               | 281           | 0.151       |                                          |               |                                    | With wrapper<br>leaves | 5    | 0.87                               | <0.01           | <0.01           | <0.01           | <0.01           |
|                                                                |                                    |                                                                   | 0.054                               | 281           | 0.151       |                                          |               |                                    | With wrapper<br>leaves | 7    | 1.15                               | <0.01           | <0.01           | <0.01           | <0.01           |
|                                                                |                                    |                                                                   | 0.054                               | 281           | 0.151       |                                          |               |                                    | With wrapper<br>leaves | 10   | 1.35                               | <0.01           | <0.01           | <0.01           | <0.01           |
|                                                                |                                    |                                                                   | 0.054                               | 281           | 0.151       |                                          |               |                                    | With wrapper<br>leaves | 10   | 1.35                               | <0.01           | <0.01           | <0.01           | <0.01           |

The evaluation of new MRLs for mefentrifluconazole in or on various commodities

| Report No.<br>Location<br>(EU-region)<br>trial No | Commodity/<br>Variety | Date of<br>1. Sowing or<br>planting<br>2. Flowering<br>3. Harvest | Applic rate treatm<br>ation per ent |               |             | No. of<br>treatments<br>and last<br>date | RTI<br>(days) | Growth<br>stage<br>at last<br>date | Portion<br>analysed    | DALA | Residu (mg/kg<br>es ) <sup>1</sup> |         |       |       |       |
|---------------------------------------------------|-----------------------|-------------------------------------------------------------------|-------------------------------------|---------------|-------------|------------------------------------------|---------------|------------------------------------|------------------------|------|------------------------------------|---------|-------|-------|-------|
|                                                   |                       |                                                                   | kg<br>as/hL                         | Water<br>L/ha | kg<br>as/ha |                                          |               |                                    |                        |      | BAS<br>750 F                       | 1,2,4-T | TA    | TAA   | TLA   |
|                                                   |                       |                                                                   | -                                   | -             | -           | -                                        | -             | -                                  | With wrapper<br>leaves | 0    | <0.01                              | <0.01   | <0.01 | <0.01 | <0.01 |

The evaluation of new MRLs for mefentrifluconazole in or on various commodities

| Report No.<br>Location<br>(EU-region)<br>trial No          | Commodity/<br>Variety                             | Date of<br>1. Sowing or<br>planting<br>2. Flowering<br>3. Harvest | Applic rate treatm<br>ation per ent |               |             | No. of<br>treatments<br>and last<br>date | RTI<br>(days) | Growth<br>stage<br>at last<br>date | Portion<br>analysed    | DALA | Residu (mg/kg<br>es ) <sup>1</sup> |                 |                 |                 |                 |
|------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------------------|-------------------------------------|---------------|-------------|------------------------------------------|---------------|------------------------------------|------------------------|------|------------------------------------|-----------------|-----------------|-----------------|-----------------|
|                                                            |                                                   |                                                                   | kg<br>as/hL                         | Water<br>L/ha | kg<br>as/ha |                                          |               |                                    |                        |      | BAS<br>750 F                       | 1,2,4-T         | TA              | TAA             | TLA             |
| 2019/7002361<br>744167<br>King City, CA,<br>USA<br>R180041 | Head lettuce<br>VL 0482<br><br>Vandenberg         | 1. 18.04.2018<br>2. n.a.<br>3. 08.06.18                           | 0.040                               | 383           | 0.154       | 3<br>08.06.2018                          | 7             | BBCH<br>49                         | With wrapper<br>leaves | 0    | <u>1.28</u>                        | <u>&lt;0.01</u> | <u>&lt;0.01</u> | <u>&lt;0.01</u> | <u>&lt;0.01</u> |
|                                                            |                                                   |                                                                   | 0.041                               | 365           | 0.151       |                                          |               |                                    |                        |      |                                    |                 |                 |                 |                 |
|                                                            |                                                   |                                                                   | 0.040                               | 383           | 0.152       |                                          |               |                                    |                        |      |                                    |                 |                 |                 |                 |
|                                                            |                                                   |                                                                   | -                                   | -             | -           | -                                        | -             | -                                  | With wrapper<br>leaves | 0    | <0.01                              | <0.01           | <0.01           | <0.01           | <0.01           |
| 2019/7002361<br>744167<br>Hickman, CA,<br>USA<br>R180042   | Head lettuce<br>VL 0482<br><br>Vandenberg         | 1. 28.03.18<br>2. n.a.<br>3. 02.06.2018                           | 0.053                               | 281           | 0.149       | 3<br>02.06.2018                          | 7             | BBCH<br>49                         | With wrapper<br>leaves | 0    | <u>0.27</u>                        | <u>&lt;0.01</u> | <u>&lt;0.01</u> | <u>&lt;0.01</u> | <u>&lt;0.01</u> |
|                                                            |                                                   |                                                                   | 0.053                               | 281           | 0.149       |                                          |               |                                    |                        |      |                                    |                 |                 |                 |                 |
|                                                            |                                                   |                                                                   | 0.053                               | 281           | 0.149       |                                          |               |                                    |                        |      |                                    |                 |                 |                 |                 |
|                                                            |                                                   |                                                                   | -                                   | -             | -           | -                                        | -             | -                                  | With wrapper<br>leaves | 0    | <0.01                              | <0.01           | <0.01           | <0.01           | <0.01           |
| 2019/7002361<br>744167<br>Yuba City, CA,<br>USA<br>R180043 | Head lettuce<br>VL 0482<br><br>Great Lakes<br>659 | 1. 11.09.18<br>2. n.a.<br>3. 15.11.18                             | 0.053                               | 281           | 0.150       | 3<br>15.11.2018                          | 6-8           | BBCH<br>49                         | With wrapper<br>leaves | 0    | <u>0.12</u>                        | <u>&lt;0.01</u> | <u>&lt;0.01</u> | <u>&lt;0.01</u> | <u>&lt;0.01</u> |
|                                                            |                                                   |                                                                   | 0.053                               | 281           | 0.149       |                                          |               |                                    |                        |      |                                    |                 |                 |                 |                 |
|                                                            |                                                   |                                                                   | 0.053                               | 281           | 0.149       |                                          |               |                                    |                        |      |                                    |                 |                 |                 |                 |
|                                                            |                                                   |                                                                   | -                                   | -             | -           | -                                        | -             | -                                  | With wrapper<br>leaves | 0    | <0.01                              | <0.01           | <0.01           | <0.01           | <0.01           |

1: Duplicate measurements were taken and the mean residue reported.

## C.3.2 Nature and magnitude of residues in processed commodities

### C.3.2.1 Nature of residues (Standard hydrolysis study)

No additional studies submitted.

### C.3.2.2 Magnitude of residues (Processing studies)

#### C.3.2.2.1 Processing study on olives

Reference: Residues of Mefentrifluconazole (BAS 750 F) in Olive and its Processed Products after Treatment with BAS 750 05 F under Field Conditions in Spain, 2019, [REDACTED] 2021, Study ID 877830, Doc ID: 2020/2006781

Guideline(s): Regulation (EC) No 1107/2009 of the European Parliament and of the Council of 21 October 2009 concerning the placing of plant protection products on the market and repealing Council Directives 79/117/EEC and 91/414/EEC

Commission Regulation (EU) No 544/2011 of 10 June 2011 implementing Regulation (EC) No 1107/2009 of the European Parliament and of the Council as regards the data requirements for active substances

European Community Guideline 7029/VI/95 - rev.5, 22/07/97: General recommendations for the design, preparation and realization of residue trials

European Community Guideline 7525/VI/95 - rev.10.3, 13/06/17: Comparability, extrapolation, group tolerances and data requirements for setting MRLs.

OECD Guideline for the Testing of Chemicals No. 509. Crop Field Trial, 07 September 2009

Good Laboratory Practice Regulations: Appendix 1 to § 19a, Section 1, of the German Chemikaliengesetz (Chemicals Act)

Commission of the European Communities, working document 7035/VI/95 revision 5, Appendix E, Processing Studies, 22 July 1997

OECD Guideline for the testing of Chemicals, Number 508  
(2008): Magnitude of the Pesticide Residues in Processed  
Commodities

OECD Series on Testing and Assessment, Number 96  
(2008): Guidance Document on Magnitude of Pesticide  
Residues in Processed Commodities.  
ENV/JM/MONO(2008)23.

National relevant GLP-Regulations of Test site's countries

Deviations: No

GLP: Yes

Validity of the study: Acceptable

## Materials and methods

Field trials for a processing study on olives were conducted at three trial locations in Spain during the 2019 growing season. Mefentrifluconazole was applied at 2 x 450 g a.s./ha as an SC formulation with a water volume of 1000 L/ha. The applications were made 32-33 days before harvest and 20-21 days before harvest (last application at BBCH 85). Normal agricultural practices were followed, and no unusual weather events were recorded. One of the three trials included an untreated plot which was used as a control plot. The remaining two trials consisted of one treated plot only. Samples of olive fruit (with stones) were harvested at normal maturity for olives for oil production, 20 days after last application (BBCH 89). An additional sample was also harvested on the day of last application (BBCH 85).

The RAC samples of olive fruit (with stones) were stored at ambient temperature after harvest and shipped to the test facility, where they were stored at approx. 5°C. The samples were stored for up to 21 days before processing. After processing, samples were homogenised and stored deep frozen at  $\leq -18^{\circ}\text{C}$  for up to 172 days. Sufficient storage stability data for mefentrifluconazole and TDMs is available to support frozen storage for this period in the high oil content commodities group (see section 3.2) to which the RAC and processed fractions belong.

### *Processing olives into washed olives*

The olives were cleaned by manually removing and discarding dirt. The cleaned olives were washed with tap water (ratio ~1:1). An aliquot of the 'wash water (olives)' was taken as a specimen for residue analysis. The rest of the washing water was discarded.

### *Processing of washed olives into wet pomace*

The washed olives were crushed mechanically using a compression roll equipped with two coarse rollers. During this crushing process, the olive stones were cracked. This resulted in crushed olives or wet pomace. An aliquot of the 'wet pomace' specimen was taken for residue analysis.

#### *Processing of wet pomace into dry pomace*

To obtain dry pomace, an aliquot of wet pomace was dried. The actual moisture content ranged between 3.1% to 7.0%. An aliquot of the 'dry pomace' specimen was taken for residue analysis.

#### *Processing wet pomace into press cake*

The crushed olives were pressed using a platen press up to 300 bar to obtain press cake and oil/water mixture. An aliquot of the 'press cake' was taken for analysis.

#### *Processing of press cake into oil (cold pressed)*

The oil/water mixture obtained from the production of the press cake was drained and allowed to separate in a container for 18.5 to 21 hours to obtain press oil and press water. The press oil was vacuum filtrated via cellulose filter, in order to remove solid particles. The filter residue and the press water were discarded, and an aliquot of 'oil (cold pressed)' was sampled for analysis.

#### *Processing press cake and oil (cold pressed) into raw oil*

The remaining press cake after sampling was dried in a vacuum drum dryer. The dried press cake was transferred into an extraction apparatus. The solvent tank was filled with n-hexane (60 L) which was pumped in a circle with the heating supply turned on for between 1.5 to 2 hours, at which point the extraction was stopped. The miscella was pumped into a distillation flask (50 L), and was distilled twice. The n-hexane was distilled off into a tank and the oil phase was drained off and transferred to a rotary evaporator to remove any remaining n-hexane. The extracted oil was combined with the oil (cold pressed) to make 'raw oil'. A sample of 'raw oil' was taken for analysis.

#### *Processing raw oil into refined oil*

##### *Hydration*

The raw oil was heated, and water was added. The mixture was allowed to rest until phase separation was achieved.

##### *Desliming*

The raw oil was heated with concentration phosphoric acid and water (1:1, v/v) and stirred. The mixture was allowed to rest until slime separation occurred. The aqueous phase was drained and discarded.

##### *Neutralisation*

The acid value of the oil was determined and sodium hydroxide solution (7%) was added dropwise.

#### *Washing*

The oil phase was then heated while stirred and water was added. The mixture was allowed to rest until phase separation occurred. The aqueous phase was drained off. The procedure was repeated until the aqueous phase reached a pH of 7 to 8. The aqueous phase was discarded.

#### *Drying*

The oil was dried by addition of citric acid dissolved in water and heating. The remaining water was removed by vacuum.

#### *Bleaching*

The oil was then heated and 1% bleaching earth was added while stirring. The mixture was filtered through a cellulose acetate filter. The filter and the filter cake were discarded.

#### *Deodorisation*

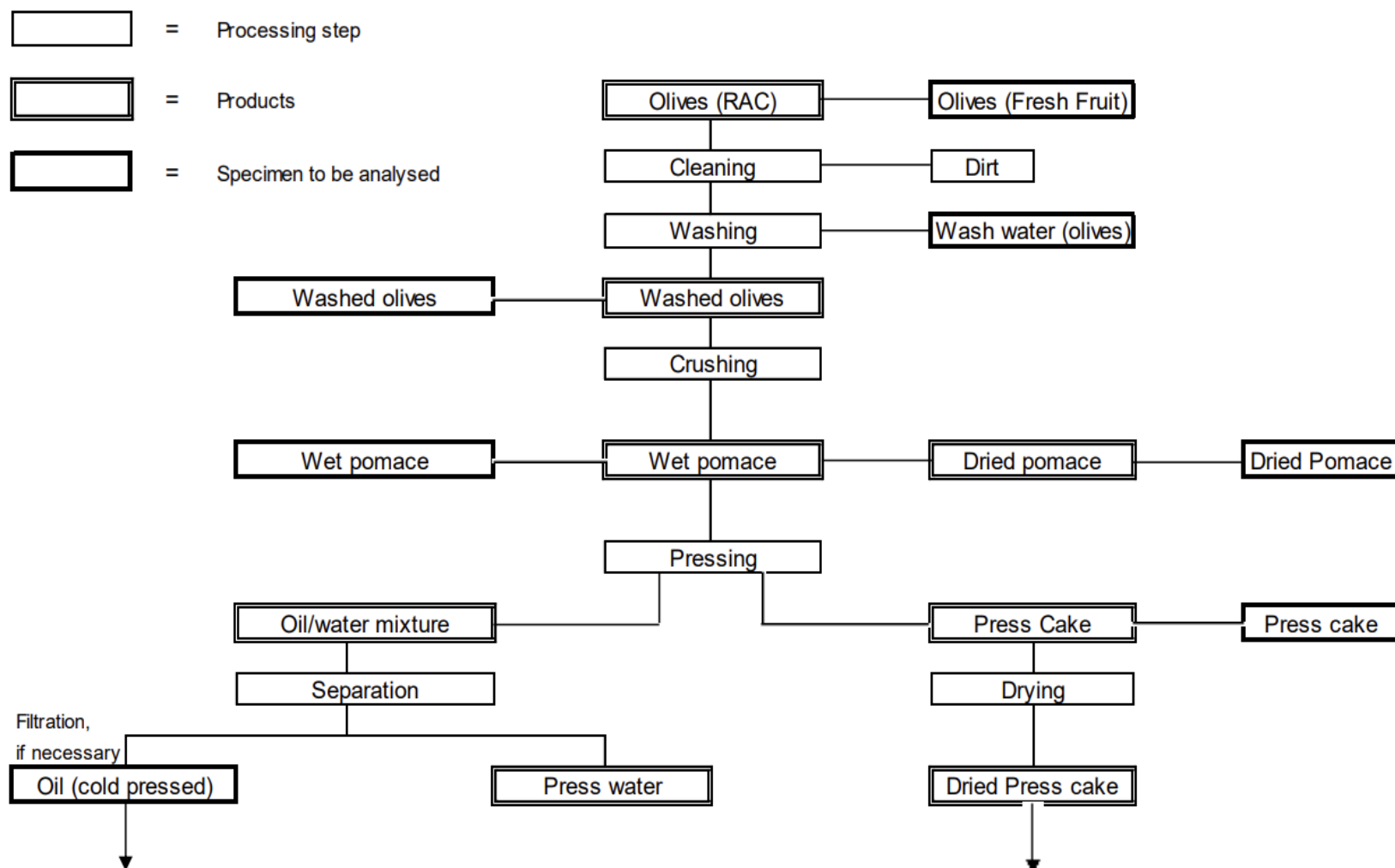
Volatile substances were removed by deodorisation. Condensed reaction products were trapped in a vacuum trap with dry ice and designated as fatty acid specimens. The process was repeated twice and the refined oils combined. A sample of 'refined olive oil' was taken for analysis.

#### *Processing of olives into fermented olives*

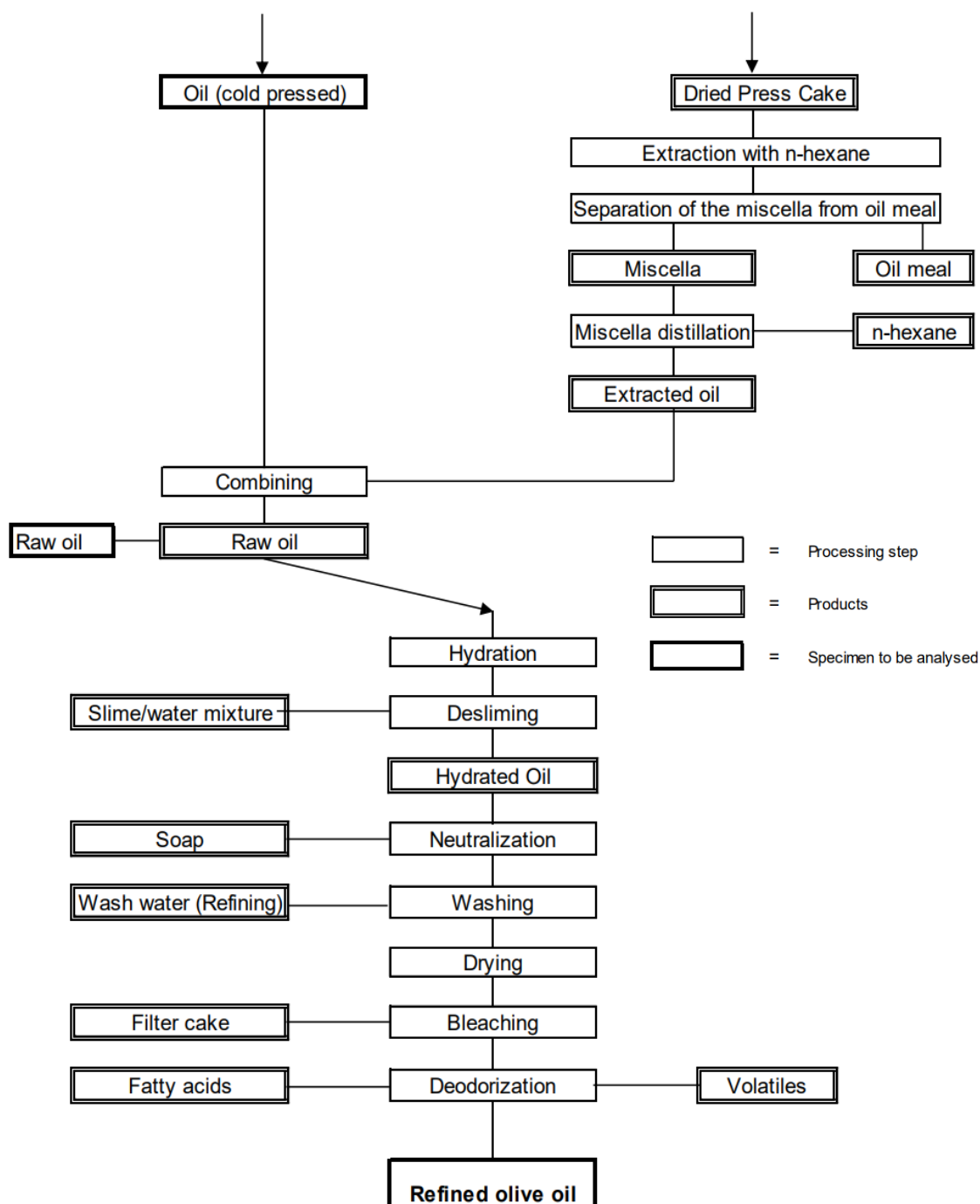
The olives were washed by hand with tap water and left to stand for a day, the olives were then separated from the wash water and washed with water again. The water from both washes was then combined. The washed olives were transferred to a glass ballon which was then filled with 7% sodium chloride solution. The fermentation was started using the cultures Bactoferm Vege-Start 2.0 CN (25 mg/ 1000 kg olives) and Bactoferm Vege-Start 60 (8.3 mg/ 1000 kg of olives). The glass ballon was sealed and protected from light at 19.9°C for 3 months. After 3 months the broth was separated and the a sample of 'fermented olives' were collected for analysis.

Flowcharts of the processing of olive is presented in Figures C.3.2.2.1-1 to C.3.2.2.1-3.

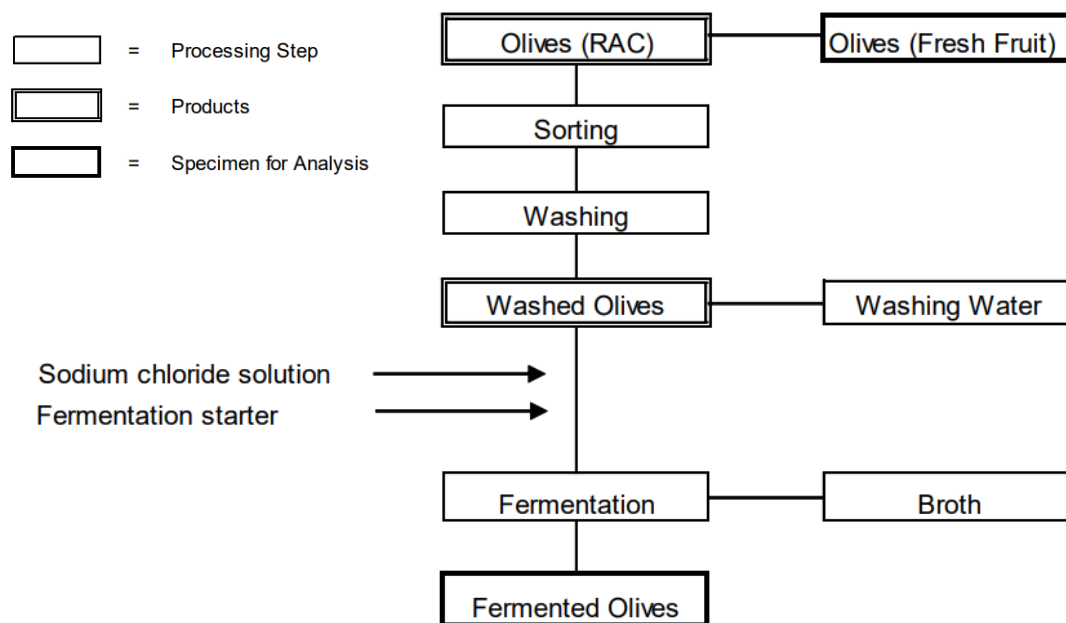
**Figure 3.2.2.1-1 Processing flowchart for olive RAC to oil (cold pressed) and dried pressed cake.**



**Figure 3.2.2.1-2 Processing flowchart for olive oil (cold pressed) and olive dried press cake to refined olive oil.**



**Figure 3.2.2.1-3 Processing flowchart for olives to fermented olives**



Analysis for mefentrifluconazole was performed using LC-MS/MS method L0076/09. The method was satisfactorily validated in accordance with SANCO/3029/99 rev. 4 on high oil commodities for the approval of mefentrifluconazole (UK, 2018b). Analysis for TDMs were performed using LC-MS/MS method L0170/02. Full details and validation data for both methods can be found in UK, 2018b. The method was satisfactorily validated in accordance with SANCO/3029/99 rev. 4 on high oil commodities during the TDM Review (UK, 2018a).

## Results and discussions

Processing factors were calculated as the residue in the processed fraction divided by the residues in the RAC.

Analytical results were reported for mefentrifluconazole and TDM residues in olives sampled from the trials at 0 and 21 DALA. In addition, the olives were analysed for mefentrifluconazole and TDM residues prior to being processed. The following results were obtained for mefentrifluconazole residues:

0 DALA: 2.7, 6.3, 3.3 mg/kg

21 DALA: 2.8, 6.6 and 2.1 mg/kg

Olives to be processed: 0.99, 1.6 and 2.5 mg/kg

Following washing with water: 6, 3.4 and 0.91 mg/kg

It is noted that the mefentrifluconazole residues reported in the olive (fruit with stones, 21 DALA) sampled directly before the start of processing were significantly lower for two of the three trials compared to the residues reported after the subsequent washing of the olive fruits (washed olives). It would be expected that residues after washing would be lower or similar to the residues prior to washing due to the removal of surface residues. An explanation for the results observed is not available in the study report and there is uncertainty in the Pfs calculated. For this reason the Pfs can only be regarded as tentative at this stage. However, as mefentrifluconazole is stable on processing, only a dilution and concentration effect is observed and the Pfs are not currently required to refine the consumer risk assessment.

Owing to the results observed, the residue levels reported prior to processing have not been used to calculate the Pfs. The residues reported after washing are comparable to the residue levels found at 0 and 21 DALA and hence the values reported after washing were used to calculate the Pfs, but as outlined above the Pfs are tentative only.

**Table 3.2.2.1-1 Processing study on olives with mefentrifluconazole: Pfs for mefentrifluconazole**

| Matrix                                                     | Residues of mefentrifluconazole (mg/kg) <sup>†</sup> | Processing factors for mefentrifluconazole (RD-Enf = RD-RA1) | Median Pf |
|------------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------|-----------|
| <b>Mefentrifluconazole</b>                                 |                                                      |                                                              |           |
| Fruit (with stones) (0 DALA)                               | 2.7, 6.3, 3.3                                        | -                                                            | -         |
| Fruit (with stones) (21 DALA)                              | 2.8, 6.6, 2.1                                        | -                                                            | -         |
| Fruit (with stones) (directly before processing) (21 DALA) | 0.99, 1.6, 2.5                                       | -                                                            | -         |
| Washed olives (RAC)                                        | 1.6, 3.4, 0.91                                       | -                                                            | -         |

|                                                        |                     |                     |       |
|--------------------------------------------------------|---------------------|---------------------|-------|
| Wash water                                             | 0.041, 0.12, <0.01  | 0.03, 0.04, <0.01   | 0.03  |
| Wet pomace                                             | 1.7, 2.9, 0.94      | 1.06, 0.85, 1.03    | 1.03  |
| Dried pomace                                           | 3.8, 5.1, 1.9       | 2.38, 1.50, 2.09    | 2.09  |
| Oil (cold pressed)                                     | 3.0, 4.8, 1.4       | 1.88, 1.41, 1.54    | 1.54  |
| Press cake                                             | 3.3, 4.4, 1.4       | 2.06, 1.29, 1.54    | 1.54  |
| Raw oil                                                | 7.2, 9.7, 4.1       | 4.50, 2.85, 4.51    | 4.50  |
| Refined oil                                            | 0.031, 0.033, 0.017 | 0.019, 0.010, 0.019 | 0.019 |
| Fruit (with stones)<br>(directly before<br>processing) | 1.6, 2.7, 0.90      | -                   | -     |
| Fermented olives                                       | 1.5, 2.3, 0.97      | 0.94, 0.85, 1.08    | 0.94  |

† The three results reported are residue levels associated with the samples taken from the three independent field trials.

**Table 3.2.2.1-2 Processing study on olives with mefentrifluconazole: Pfs for TDMs**

| Matrix                                           | Residues (mg/kg) †                | Processing factors | Median Pf          |
|--------------------------------------------------|-----------------------------------|--------------------|--------------------|
| <b>TA</b>                                        |                                   |                    |                    |
| Fruit (with stones) (0 DALA)                     | 0.28 <sup>2</sup> , 0.092, 0.069  | -                  | -                  |
| Fruit (with stones) (21 DALA)                    | 0.51, <0.01, 0.83                 | -                  | -                  |
| Fruit (with stones) (directly before processing) | 0.18, <0.01, 0.072                | -                  | -                  |
| Washed olives (RAC)                              | 0.18, <0.01, 0.053                | -                  | -                  |
| Wash water                                       | <0.01, <0.01, <0.01               | <0.06, <0.19       | <0.13 <sup>1</sup> |
| Wet pomace                                       | 0.12, <0.01, 0.18                 | 0.67, 3.40         | 2.04 <sup>1</sup>  |
| Dried pomace                                     | 0.18, <0.01, 0.065                | 1, 1.23            | 1.12 <sup>1</sup>  |
| Oil (cold pressed)                               | 0.18 <sup>3</sup> , <0.01, <0.01  | 1, <0.19           | <0.60 <sup>1</sup> |
| Press cake                                       | 0.097 <sup>4</sup> , <0.01, 0.092 | 0.54, 1.74         | 1.14 <sup>1</sup>  |
| Raw oil                                          | <0.01, <0.01, <0.01               | <0.06, <0.19       | <0.13 <sup>1</sup> |
| Refined oil                                      | <0.01, <0.01, <0.01               | <0.06, <0.19       | <0.13 <sup>1</sup> |

|                                                     |                     |            |                   |
|-----------------------------------------------------|---------------------|------------|-------------------|
| Fruit (with stones)<br>(directly before processing) | 0.24, <0.01, 0.67   | -          | -                 |
| Fermented olives                                    | 0.027, <0.01, 0.025 | 0.11, 0.04 | 0.08 <sup>1</sup> |
| <b>TLA</b>                                          |                     |            |                   |
| Fruit (with stones) (0 DALA)                        | <0.01, <0.01, <0.01 | -          | -                 |
| Fruit (with stones) (21 DALA)                       | <0.01, <0.01, <0.01 | -          | -                 |
| Fruit (with stones)<br>(directly before processing) | <0.01, <0.01, <0.01 | -          | -                 |
| Washed olives (RAC)                                 | <0.01, <0.01, <0.01 | -          | -                 |
| Wash water                                          | <0.01, <0.01, <0.01 | -          | -                 |
| Wet pomace                                          | <0.01, <0.01, <0.01 | -          | -                 |
| Dried pomace                                        | <0.01, <0.01, 0.013 | -          | -                 |
| Oil (cold pressed)                                  | <0.01, <0.01, <0.01 | -          | -                 |
| Press cake                                          | <0.01, <0.01, <0.01 | -          | -                 |
| Raw oil                                             | <0.01, <0.01, <0.01 | -          | -                 |
| Refined oil                                         | <0.01, <0.01, <0.01 | -          | -                 |
| Fruit (with stones)<br>(directly before processing) | <0.01, <0.01, <0.01 | -          | -                 |
| Fermented olives                                    | <0.01, <0.01, <0.01 | -          | -                 |
| <b>TAA</b>                                          |                     |            |                   |
| Fruit (with stones) (0 DALA)                        | <0.01, <0.01, <0.01 | -          | -                 |
| Fruit (with stones) (21 DALA)                       | <0.01, <0.01, <0.01 | -          | -                 |
| Fruit (with stones)<br>(directly before processing) | <0.01, <0.01, <0.01 | -          | -                 |

|                                                  |                     |              |                    |
|--------------------------------------------------|---------------------|--------------|--------------------|
| Washed olives (RAC)                              | <0.01, <0.01, <0.01 | -            | -                  |
| Wash water                                       | <0.01, <0.01, <0.01 | -            | -                  |
| Wet pomace                                       | <0.01, <0.01, <0.01 | -            | -                  |
| Dried pomace                                     | <0.01, <0.01, <0.01 | -            | -                  |
| Oil (cold pressed)                               | <0.01, <0.01, <0.01 | -            | -                  |
| Press cake                                       | <0.01, <0.01, <0.01 | -            | -                  |
| Raw oil                                          | <0.01, <0.01, <0.01 | -            | -                  |
| Refined oil                                      | <0.01, <0.01, <0.01 | -            | -                  |
| Fruit (with stones) (directly before processing) | <0.01, <0.01, <0.01 | -            | -                  |
| Fermented olives                                 | <0.01, <0.01, <0.01 | -            | -                  |
| <b>1,2,4-T</b>                                   |                     |              |                    |
| Fruit (with stones) (0 DALA)                     | <0.01, <0.01, <0.01 | -            | -                  |
| Fruit (with stones) (21 DALA)                    | <0.01, 0.014, 0.02  | -            | -                  |
| Fruit (with stones) (directly before processing) | <0.01, 0.012, <0.01 | -            | -                  |
| Washed olives (RAC)                              | <0.01, 0.013, 0.014 | -            | -                  |
| Wash water                                       | <0.01, <0.01, <0.01 | <0.77, <0.71 | <0.74 <sup>1</sup> |
| Wet pomace                                       | 0.01, <0.01, 0.011  | <0.77, 0.79  | <0.78 <sup>1</sup> |
| Dried pomace                                     | 0.022, 0.02, <0.01  | 1.54, <0.71  | 1.13 <sup>1</sup>  |
| Oil (cold pressed)                               | <0.01, <0.01, <0.01 | <0.77, <0.71 | <0.74 <sup>1</sup> |
| Press cake                                       | 0.012, <0.01, 0.012 | <0.77, 0.86  | 0.82 <sup>1</sup>  |
| Raw oil                                          | <0.01, <0.01, <0.01 | <0.77, <0.71 | <0.74 <sup>1</sup> |
| Refined oil                                      | <0.01, <0.01, <0.01 | <0.77, <0.71 | <0.74 <sup>1</sup> |

|                                                     |                     |   |   |
|-----------------------------------------------------|---------------------|---|---|
| Fruit (with stones)<br>(directly before processing) | <0.01, <0.01, <0.01 | - | - |
| Fermented olives                                    | <0.01, <0.01, <0.01 | - | - |

† The three results reported are residue levels associated with the samples taken from the three independent field trials.

1. As only two PFs are available median PF has been calculated using the mean.
2. Value from untreated plot, treated value: 0.28 mg/kg
3. Value from untreated plot, treated value: 0.18 mg/kg
4. Value from untreated plot, treated value: 0.087 mg/kg

The analytical methods (L0076/09 and L0170/02) were satisfactorily validated in high oil content commodities in accordance with SANCO/3029/99 rev. 4 during approval of mefentrifluconazole (UK, 2018b) and the TDM review, respectively (UK, 2018a). The LOQs of the methods are 0.01 mg/kg for mefentrifluconazole and TDMs in/on olives (fruit) RAC and the processed commodity samples. Satisfactory procedural recoveries were provided for the RAC and the processed fractions at the LOQ and 10 x LOQ fortification levels. The procedural recoveries are tabulated in Table C.3.2.2.1-3.

**Table C.3.2.2.1-3 Summary of procedural recoveries for mefentrifluconazole and TDMs**

| Processed fraction         | Fortification level (mg/kg) | Recoveries (%)                     | Mean (%) |
|----------------------------|-----------------------------|------------------------------------|----------|
| <b>Mefentrifluconazole</b> |                             |                                    |          |
| Fruit (with stones)        | 0.01                        | 101, 99, 101, 92, 88.5, 93.5       | 95.8     |
|                            | 0.1                         | 88.5, 87.5, 85.5, 83.5, 85.5, 89.5 | 86.7     |
|                            | 1.0                         | 102, 85                            | 93.5     |
| Washed olives (RAC)        | 0.01                        | 106, 103, 99.0                     | 103      |
|                            | 0.1                         | 95.0, 99.5, 99.5                   | 98.0     |
|                            | 10                          | 93.5                               | -        |
| Wash water                 | 0.01                        | 105, 103, 101                      | 103      |
|                            | 0.1                         | 104, 107, 101                      | 104      |
|                            | 10                          | 95.0                               | -        |
| Wet pomace                 | 0.01                        | 109, 109, 107                      | 108      |
|                            | 0.1                         | 94.5, 94.0, 109                    | 99.2     |

|                     |      |                                    |      |
|---------------------|------|------------------------------------|------|
|                     | 10   | 99.5                               | -    |
| Dried pomace        | 0.01 | 99.5, 102, 98.0                    | 99.8 |
|                     | 0.1  | 95.0, 92.5, 95.5                   | 94.3 |
|                     | 10   | 100                                | -    |
| Oil (cold pressed)  | 0.01 | 84.5, 96.0, 104                    | 94.8 |
|                     | 0.1  | 85.0, 83.0, 80.5                   | 82.8 |
|                     | 10   | 76.5                               | -    |
| Press cake          | 0.01 | 101, 85.0, 93.0                    | 93.0 |
|                     | 0.1  | 92.5, 96.0, 88.0                   | 92.2 |
|                     | 10   | 95.5                               | -    |
| Raw oil             | 0.01 | 81.5, 80.0, 108, 106, 102, 81.5    | 93.2 |
|                     | 0.1  | 74.2, 74.7, 75.2, 92.2, 93.5, 88.8 | 83.1 |
|                     | 10   | 88.2                               | -    |
| Refined oil         | 0.01 | 99.3, 93.5, 95.0                   | 95.9 |
|                     | 0.1  | 94.5, 98.0, 92.0                   | 94.8 |
|                     | 10   | 98                                 | -    |
| Fermented olives    | 0.01 | 86.0, 91.0, 89.0                   | 88.7 |
|                     | 0.1  | 83.5, 86.5, 109                    | 93.0 |
|                     | 10   | 83.5                               | -    |
| <b>1,2,4-T</b>      |      |                                    |      |
| Fruit (with stones) | 0.01 | 109, 79.2, 71.1, 72.5, 70.4        | 80.4 |
|                     | 0.1  | 89.6, 84.2, 80.7, 107, 91.1, 93.8  | 91.1 |
|                     | 1.0  | 97.7, 99.5, 90.1                   | 95.8 |
| Washed olives (RAC) | 0.01 | 108, 108, 87.8                     | 101  |
|                     | 0.1  | 104, 105, 85.9, 91.7               | 96.7 |
|                     | 10   | 110, 107                           | 109  |
| Wash water          | 0.01 | 95.6, 95.0, 99.2, 96.3             | 96.5 |
|                     | 0.1  | 109, 109, 106                      | 108  |
|                     | 10   | 103, 103                           | 103  |
| Wet pomace          | 0.01 | 105, 103, 99.3                     | 102  |

|                     |      |                               |      |
|---------------------|------|-------------------------------|------|
|                     | 0.1  | 103, 103, 102, 106            | 104  |
|                     | 10   | 106, 101                      | 104  |
| Dried pomace        | 0.01 | 81.1, 70.7, 81.7              | 78.0 |
|                     | 0.1  | 109,105, 81.1, 81.6           | 94.2 |
|                     | 10   | 108                           | -    |
| Oil (cold pressed)  | 0.01 | 108, 109, 110                 | 109  |
|                     | 0.1  | 109, 108, 98.3                | 105  |
|                     | 10   | 110, 93.0, 99.9               | 101  |
| Press cake          | 0.01 | 70.9, 91.9, 88.1              | 83.6 |
|                     | 0.1  | 109, 108, 98.3                | 105  |
|                     | 10   | 108, 104                      | 106  |
| Raw oil             | 0.01 | 92.3, 95.9, 98.9              | 95.7 |
|                     | 0.1  | 108, 109, 108                 | 108  |
|                     | 10   | -                             | -    |
| Refined oil         | 0.01 | 92.3, 95.9, 98.9              | 95.7 |
|                     | 0.1  | 107, 110, 110                 | 109  |
|                     | 10   | -                             | -    |
| Fermented olives    | 0.01 | 88.3, 89.2, 103, 104          | 96.1 |
|                     | 0.1  | 86.2, 94.5, 104               | 94.9 |
|                     | 10   | 92.7, 91.0                    | 91.9 |
| <b>TAA</b>          |      |                               |      |
| Fruit (with stones) | 0.01 | 98.8, 110, 91.4, 79.9, 76.3   | 91.3 |
|                     | 0.1  | 106, 110, 98.0, 109, 101, 102 | 104  |
|                     | 1.0  | 99.0, 99.9, 94.4              | 97.8 |
| Washed olives (RAC) | 0.01 | 91.9, 96.0, 79.0              | 89.0 |
|                     | 0.1  | 107, 109, 93.9, 95.1          | 101  |
|                     | 10   | 97.1, 94.0                    | 95.6 |
| Wash water          | 0.01 | 97.6, 110, 107, 106           | 105  |
|                     | 0.1  | 108, 108, 106                 | 107  |
|                     | 10   | 93.7, 96.8                    | 95.3 |

|                     |      |                                |      |
|---------------------|------|--------------------------------|------|
| Wet pomace          | 0.01 | 93.6, 95.2, 96.5               | 95.1 |
|                     | 0.1  | 107, 109, 109, 110             | 109  |
|                     | 10   | 98.7, 94.0                     | 96.4 |
| Dried pomace        | 0.01 | 109, 95.5, 96.5                | 100  |
|                     | 0.1  | 107, 109, 109, 110             | 109  |
|                     | 10   | 98.1                           | -    |
| Oil (cold pressed)  | 0.01 | 105, 92.0, 109                 | 102  |
|                     | 0.1  | 110, 95.7, 100                 | 102  |
|                     | 10   | 106, 94.4, 101                 | 100  |
| Press cake          | 0.01 | 82.1, 93.5, 101                | 92.2 |
|                     | 0.1  | 109, 108, 110                  | 109  |
|                     | 10   | 96.6, 93.7                     | 95.2 |
| Raw oil             | 0.01 | 110, 109, 106                  | 108  |
|                     | 0.1  | 110, 110, 108                  | 109  |
|                     | 10   | -                              | -    |
| Refined oil         | 0.01 | 109, 108, 110                  | 109  |
|                     | 0.1  | 110, 109, 108                  | 109  |
|                     | 10   | -                              | -    |
| Fermented olives    | 0.01 | 74.8, 84.8, 79.9, 84.3         | 81.0 |
|                     | 0.1  | 93.4, 104, 96.2                | 97.9 |
|                     | 10   | 96.1, 97.3                     | 96.7 |
| <b>TLA</b>          |      |                                |      |
| Fruit (with stones) | 0.01 | 110, 109, 109, 73.6, 73.3      | 95.0 |
|                     | 0.1  | 101, 110, 104, 109, 93.2, 97.1 | 102  |
|                     | 1.0  | 102, 104, 94.0                 | 100  |
| Washed olives (RAC) | 0.01 | 99.0, 100, 86.3                | 95.1 |
|                     | 0.1  | 105, 110, 103, 105             | 106  |
|                     | 10   | 98.4, 93.8                     | 96.1 |
| Wash water          | 0.01 | 104, 106, 101, 103             | 104  |
|                     | 0.1  | 110, 109, 109                  | 109  |

|                     |      |                                    |      |
|---------------------|------|------------------------------------|------|
|                     | 10   | 99.9, 97.5                         | 98.7 |
| Wet pomace          | 0.01 | 106, 105, 98.5                     | 103  |
|                     | 0.1  | 108, 110, 109, 110                 | 109  |
|                     | 10   | 100, 100                           | 100  |
| Dried pomace        | 0.01 | 106, 108, 109                      | 108  |
|                     | 0.1  | 109, 110, 110, 101                 | 108  |
|                     | 10   | 96.5                               | -    |
| Oil (cold pressed)  | 0.01 | 90.6, 103, 72.7                    | 88.8 |
|                     | 0.1  | 109, 96.1, 100                     | 102  |
|                     | 10   | 103, 96.6, 99.1                    | 99.6 |
| Press cake          | 0.01 | 96.2, 106, 97.4                    | 99.9 |
|                     | 0.1  | 110, 110, 110                      | 110  |
|                     | 10   | 102, 102                           | 102  |
| Raw oil             | 0.01 | 102, 102, 102                      | 102  |
|                     | 0.1  | 110, 110, 109                      | 110  |
|                     | 10   | -                                  | -    |
| Refined oil         | 0.01 | 100, 100, 102                      | 101  |
|                     | 0.1  | 106, 107, 108                      | 107  |
|                     | 10   | -                                  |      |
| Fermented olives    | 0.01 | 102, 106, 99.2, 92.1               | 99.8 |
|                     | 0.1  | 87.8, 93.8, 109                    | 96.9 |
|                     | 10   | 99.1, 94.2                         | 96.7 |
| <b>TA</b>           |      |                                    |      |
| Fruit (with stones) | 0.01 | 90.0, 90.0, 70.0, 110, 110         | 94   |
|                     | 0.1  | 72.0, 75.0, 94.0, 80.0, 97.0, 94.0 | 85.3 |
|                     | 1.0  | 71.4, 71.6, 89.2                   | 77.4 |
| Washed olives (RAC) | 0.01 | 93.0, 73.0, 71.9                   | 79.3 |
|                     | 0.1  | 73.3, 109, 86.6, 98.0              | 91.7 |
|                     | 10   | 71.4, 92.3                         | 81.9 |
| Wash water          | 0.01 | 107, 102, 91.4, 93.0               | 98.4 |

|                    |      |                       |      |
|--------------------|------|-----------------------|------|
|                    | 0.1  | 105, 102, 95.9        | 101  |
|                    | 10   | 101, 103              | 102  |
| Wet pomace         | 0.01 | 86.0, 86.0, 91.0      | 87.7 |
|                    | 0.1  | 110, 71.8, 93.1, 109  | 96.0 |
|                    | 10   | 70.7, 97.5            | 84.1 |
| Dried pomace       | 0.01 | 76.0, 100, 90.0       | 88.7 |
|                    | 0.1  | 108, 109, 81.0, 109   | 102  |
|                    | 10   | 87.1                  | -    |
| Oil (cold pressed) | 0.01 | 98.2, 110, 90.7       | 99.6 |
|                    | 0.1  | 110, 94.8, 110        | 105  |
|                    | 10   | 109, 104, 101         | 105  |
| Press cake         | 0.01 | 106, 86.0, 91.0       | 94.3 |
|                    | 0.1  | 71.6, 73.6, 79.7      | 75.0 |
|                    | 10   | 72.0, 70.3            | 71.2 |
| Raw oil            | 0.01 | 106, 110, 109         | 103  |
|                    | 0.1  | 108, 110, 106         | 108  |
|                    | 10   | -                     | -    |
| Refined oil        | 0.01 | 102, 101, 107         | 103  |
|                    | 0.1  | 109, 106, 104         | 106  |
|                    | 10   | -                     | -    |
| Fermented olives   | 0.01 | 79.2, 100, 70.0, 80.0 | 82.3 |
|                    | 0.1  | 108, 96.1, 74.0       | 92.7 |
|                    | 10   | 97.5, 98.5            | 98.0 |

Acceptable procedural recoveries were reported for all analytes in olive (fruits) RAC and all processed commodities.

## Conclusion

For mefentrifluconazole a concentration of residues was observed in wet pomace (median Pf: 1.03), dried pomace (median Pf: 2.04), oil (cold pressed) (median Pf: 1.54), press cake (median Pf: 1.54) and raw oil (median Pf: 4.50). For Refined oil and fermented olives a reduction in residues was observed (Pf: 0.019 and 0.94, respectively).

Residues at or above the LOQ were observed in the RAC samples for TA and 1,2,4-T. For TA a concentration of residues was observed in wet pomace (median Pf: 2.03), dried pomace (median Pf: 1.12) and press cake (median Pf: 1.10). A reduction in TA residues was observed for oil (cold pressed) (Pf: <0.13), raw oil (Pf: <0.13), refined oil (Pf: <0.13) and fermented olives (Pf: 0.08). For 1,2,4 -T a concentration of residues was observed in dried pomace (median Pf: 1.48). A reduction in residues was observed for wet pomace (Pf: <0.78), oil (cold pressed) (Pf: <0.74), press cake (Pf: 0.82), raw oil (Pf: <0.74) and refined oil (<0.74).

Due to the lack of residues at or above the LOQ for TAA in the RAC and the processed fractions the submitted trials cannot be used to calculate processing factors for TAA. Due to the lack of residues at or above the LOQ for TLA in the RAC the submitted trials cannot be used to calculate processing factors for TLA. However, residues at or above the LOQ were observed for TLA in dried pomace demonstrating a concentration of residues in this commodity.

As explained above, all calculated Pfs are considered tentative due to the selection of the RAC.

### **C.3.3 Nature and magnitude of residues in rotational crops**

No additional studies submitted.

### **C.3.4 Nature and magnitude of residues in livestock**

No additional studies submitted.

### **C.3.5 Residues in honey**

No additional studies submitted.

### **C.3.6 Storage stability**

No additional studies submitted.

## Appendix D – List of endpoints

No endpoints have been changed as a result of this assessment. The full list of endpoints is outlined in the EFSA conclusion EFSA 2018b.

## Appendix E – Import Tolerances

Sufficient information was provided to confirm that the GAPs outlined in Appendix A have been authorised in Brazil, southern Europe and the USA.

A copy of the current Brazil, USA and EU legislation in the exporting countries related to the MRLs under consideration was provided. The MRLs in force in the exporting country are tabulated in Table E.1.

| Commodity                                    | MRL in force in the exporting country (mg/kg)   |
|----------------------------------------------|-------------------------------------------------|
| <b>Enforcement residue</b>                   | <b>definition for products of plant origin:</b> |
| Mefentrifluconazole                          |                                                 |
| Pistachios                                   | 0.06 <sup>1</sup>                               |
| Grapes                                       | 1.5                                             |
| Table olives                                 | 2                                               |
| Kaki/Japanese persimmons                     | 0.2                                             |
| Lettuce                                      | 5                                               |
| Roman rocket/rucola                          | 7                                               |
| Baby leaf crops (including brassica species) | 7                                               |
| Spinaches                                    | 7                                               |
| Herbs and edible flowers                     | 7                                               |
| Chervil                                      | 7                                               |
| Chives                                       | 7                                               |
| Celery leaves                                | 7                                               |
| Parsley                                      | 7                                               |
| Sage                                         | 7                                               |
| Rosemary                                     | 7                                               |
| Thyme                                        | 7                                               |
| Basil and edible flowers                     | 7                                               |
| Laurel/bay leaves                            | 7                                               |
| Tarragon                                     | 7                                               |
| Beans (without pods)                         | 0.04                                            |
| Cardoons                                     | 3                                               |
| Celeries                                     | 3                                               |
| Florence fennels                             | 3                                               |
| Globe artichokes                             | 0.7                                             |
| Rhubarbs                                     | 3                                               |
| Olives for oil production                    | 3                                               |

1: The exporting MRL for pistachios is 0.06 mg/kg which is greater than the MRL calculated from the submitted trials on pistachios (0.05 mg/kg). The higher EU MRL is due to the adoption of the CXL for mefentrifluconazole. However, in GB the residue definition for risk assessment includes TDMs, whereas the residue definition for risk assessment used to set the CXLs does not. Therefore, the CXL of 0.06 mg/kg for tree nuts cannot be adopted in GB as the overall exposure to the TDMs cannot be assessed. A GB MRL of 0.05 mg/kg will accommodate the use in the EU.

## Appendix F – Compound codes

No new metabolism studies were evaluated during this assessment and hence this section has not been completed.

## Appendix G – Abbreviations

|                   |                                                                                            |
|-------------------|--------------------------------------------------------------------------------------------|
| ADI               | Acceptable daily intake                                                                    |
| ADME              | Absorption, distribution, metabolism and excretion                                         |
| Animal model 2017 | EFSA model used to calculate the dietary burden of livestock using the OECD feeding tables |
| ARfD              | Acute reference dose                                                                       |
| a.s.              | Active substance                                                                           |
| BBCH              | Growth stages of mono- and dicotyledonous plants                                           |
| bw                | Body weight                                                                                |
| CF                | Conversion factor                                                                          |
| cGAP              | Critical GAP                                                                               |
| CXL               | Codex maximum residue limit                                                                |
| DAR               | Draft assessment report                                                                    |
| DAT               | Days after treatment                                                                       |
| DT <sub>90</sub>  | Period required for 90% dissipation (define method of estimation)                          |
| DT <sub>50</sub>  | Period required for 50% dissipation (define method of estimation)                          |
| EFSA              | European Food Safety Authority                                                             |
| EU                | European Union                                                                             |
| FAO               | Food and Agriculture Organization of the United Nations                                    |
| GAP               | Good Agricultural Practice                                                                 |
| GB                | Great Britain                                                                              |
| GC-MS             | Gas chromatography with mass spectrometry                                                  |

|                          |                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GLP                      | Good laboratory practice                                                                                                                                                                                                                                                                                                                                                                        |
| HPLC-MS/MS<br>(LC-MS/MS) | High-performance liquid chromatography with tandem mass spectrometry                                                                                                                                                                                                                                                                                                                            |
| HR                       | Highest residue                                                                                                                                                                                                                                                                                                                                                                                 |
| HSE                      | Health and Safety Executive                                                                                                                                                                                                                                                                                                                                                                     |
| IEDI                     | International estimate of daily intake                                                                                                                                                                                                                                                                                                                                                          |
| IESTI                    | International estimate of short-term intake                                                                                                                                                                                                                                                                                                                                                     |
| ILV                      | Independent laboratory validation                                                                                                                                                                                                                                                                                                                                                               |
| ISO                      | International Organisation for Standardization                                                                                                                                                                                                                                                                                                                                                  |
| JMPR                     | Joint FAO/WHO Meeting on Pesticide Residues                                                                                                                                                                                                                                                                                                                                                     |
| LC <sub>50</sub>         | Lethal concentration, median                                                                                                                                                                                                                                                                                                                                                                    |
| LD <sub>50</sub>         | Lethal dose, median                                                                                                                                                                                                                                                                                                                                                                             |
| LOAEL                    | Lowest observed adverse effect level                                                                                                                                                                                                                                                                                                                                                            |
| LOD                      | Limit of detection or limit of determination (should be defined)                                                                                                                                                                                                                                                                                                                                |
| LoEP                     | List of endpoints                                                                                                                                                                                                                                                                                                                                                                               |
| LOQ                      | <p>Limit of quantification</p> <p><b>NB</b> the limit of quantification and limit of determination are the same.</p> <p>Assimilated Regulation 396/2005 refers to the limit of determination</p> <p>Assimilated Regulation 1107/2009 refers to the limit of quantification</p> <p>MRLs marked with an asterisk (e.g. 0.01* mg/kg) are MRLs set at the limit of determination/quantification</p> |
| MRL                      | Maximum residue level                                                                                                                                                                                                                                                                                                                                                                           |
| NEDI                     | National estimate of dietary intake                                                                                                                                                                                                                                                                                                                                                             |
| NESTI                    | National estimate of short-term intake                                                                                                                                                                                                                                                                                                                                                          |

|          |                                                                                                       |
|----------|-------------------------------------------------------------------------------------------------------|
| NOAEL    | No observed adverse effect level                                                                      |
| NRL      | National reference laboratory                                                                         |
| OECD     | Organisation for Economic Co-operation and Development                                                |
| PBI      | Plant-back interval                                                                                   |
| PES      | Post-extraction solids                                                                                |
| Pf       | Processing factor                                                                                     |
| PHI      | Preharvest interval                                                                                   |
| PRIMo    | (EFSA) Pesticide Residue Intake Model                                                                 |
| QuEChERS | Quick, Easy, Cheap, Effective, Rugged, and Safe (analytical method)                                   |
| RA       | Risk assessment                                                                                       |
| RD       | Residue definition                                                                                    |
| RD-Enf   | Residue definition for enforcement (also referred to as RD-Mo i.e. residue definition for monitoring) |
| RD-RA    | Residue definition for risk assessment                                                                |
| RTI      | Re-treatment interval                                                                                 |
| STMR     | Supervised trials median residue                                                                      |
| TRR      | Total radioactive residue                                                                             |
| TTC      | Threshold of toxicological concern                                                                    |
| WG       | Water dispersible granule                                                                             |
| WHO      | World Health Organization                                                                             |

## Additional studies relied upon

| Author(s) | Year | Title/Testing Facility/Report No/GLP or GEP Status/Published or not                                                                                                                                                                                                   | Submitter |
|-----------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
|           | 2016 | Study on the residue behaviour of BAS 750 F (Reg.No. 5834378) in apples and pears after application of BAS 750 05 F under field conditions in Germany, The Netherlands, Northern and Southern France, Greece, Italy and Spain, Study ID: 742073, Doc ID: 2017/1023366 | BASF      |
|           | 2017 | Study on the residue behaviour of Mefentrifluconazole (BAS 750 F) on pome fruits after treatment with BAS 750 05 F under field conditions in Germany, Netherlands, Hungary, France (South), Greece, Italy and Spain, Study ID: 742074 Doc ID: 2018/1000732            | BASF      |
|           | 2020 | Study on the residue behaviour of BAS 750 F (Mefentrifluconazole) in hazelnuts (cobnuts) and pistachio after application of BAS 750 11 F under field conditions in Southern Europe. Study ID: 877925, Doc ID: 2020/2080723                                            | BASF      |
|           | 2019 | Study on the residue behaviour of Mefentrifluconazole (BAS 750 F) in hazelnuts (cobnuts) and pistachio after application of BAS 750 05 F under field conditions in Southern Europe. Study ID: 884405, Doc ID: 2021/2010278                                            | BASF      |
|           | 2020 | Residue analysis of 1,2,4-triazole, triazolylalanine, triazole acetic acid and triazole lactic acid in grape (fruits) after treatment with BAS 751 01 F, under field conditions in Brazil and Chile Study ID: 847566, DocID: 2019/2076891                             | BASF      |

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|           | 2019 | Residue study of mefentrifluconazole and pyraclostrobin in grape (fruits) after treatment with BAS 751 01 F, under field conditions in Brazil and Chile Study ID: 847565, Doc ID: 2019/3001691                                                                                                   | BASF      |
|           | 2019 | Magnitude of the Residues of BAS 750 F in Leafy Vegetables Raw Agricultural Commodities Following Applications of BAS 750 02 F Study ID: 744167 Doc ID: 2019/7002361                                                                                                                             | BASF      |
|           | 2021 | Study on the residue behaviour of Mefentrifluconazole (BAS 750 F) in spinach after application of BAS 750 05 F under field conditions in Southern Europe, 2019 Study ID: 877938 Doc ID: 2020/2080725                                                                                             | BASF      |
|           | 2021 | Study on the residue behaviour of Mefentrifluconazole (BAS 750 F) in spinach after one application with BAS 750 11 F under field conditions in Southern Europe, 2020 Study ID: 884419 Doc ID: 2021/2023395                                                                                       | BASF      |
|           | 2019 | Study on the residue behaviour of BAS 750 F (Mefentrifluconazole) in beans (Vicia faba) after application of BAS 750 05 F under field conditions in Germany, The Netherlands, United Kingdom, Northern and Southern France, Greece, Italy and Spain, 2018 Study ID: 850546 Doc ID: AC/BASF/18/14 | BASF      |
|           | 2020 | Study on the residue behaviour of BAS 750 F (Mefentrifluconazole) in beans (Vicia faba) after application of BAS 750 05 F under field conditions in Northern and Southern Europe, 2019 Study ID: 879417 Doc ID: 2020/2006189                                                                     | BASF      |
|           | 2020 | Study on the residue behaviour of Mefentrifluconazole (BAS 750 F) in celery after application of BAS 750 05 F under field conditions in Southern Europe, 2019 Study ID: 877937 Doc ID: 2020/2080724                                                                                              | BASF      |

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|           | 2021 | Study on the residue behaviour of Mefentrifluconazole (BAS 750 F) in celery after three applications with BAS 750 11 F under field conditions in Southern Europe, 2020 Study ID: 884418 Doc ID: 2021/2023393             | BASF      |
|           | 2020 | Study on the residue behaviour of Mefentrifluconazole (BAS 750 F) on artichoke after treatment with BAS 750 05 F under field conditions in Southern Europe, season 2019 Study ID: 877936 Doc ID: 2019/2075098            | BASF      |
|           | 2021 | Study on the residue behaviour of Mefentrifluconazole (BAS 750 F) on artichoke after treatment with BAS 750 11 F under field conditions in Southern Europe, season 2020 Study ID: 884416 Doc ID: 2020/2103080            | BASF      |
|           | 2021 | Study on the residue behaviour of Mefentrifluconazole (BAS 750 F) on table and oil olives after treatment with BAS 750 05 F under field conditions in Southern Europe, season 2019 Study ID: 877930 Doc ID: 2019/2075101 | BASF      |
|           | 2021 | Study on the residue behaviour of BAS 750 F (Mefentrifluconazole) in oil olives and table olives after application of BAS 750 11 F under field conditions in Southern Europe, 2020 Study ID: 884411 Doc ID: 2021/2010279 | BASF      |
|           | 2021 | Residues of Mefentrifluconazole (BAS 750 F) in Olive and its Processed Products after Treatment with BAS 750 05 F under Field Conditions in Spain, 2019 Study ID: 877830 Doc ID: 2020/2006781                            | BASF      |





