

# **DRAFT REGISTRATION REPORT**

## **Part B**

### **Section 8**

#### **Environmental Fate**

Detailed summary of the risk assessment

Product code: **102000025993**

Product name: **Decis Protech**

Active substances: **Deltamethrin 15 g a.s./L**

#### **Central Zone**

Zonal Rapporteur Member State: -

#### **NATIONAL ADDENDUM: Netherlands**

**(NLWG – National Change of the Legal instructions for use of Netherlands-specific requirements of a plant protection product)**

Applicant: **Bayer CropScience SA-NV**

Date: **May 2025**

Evaluator: **Ctgb, NL**

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## 8 Fate and behaviour in the environment (KCP 9)

Due to the implementation of the policy decree ‘Policy decree on implementation of article 44 Regulation of (EC) No 1107/2009 regarding structural exceedances of the authorisation criterion in surface water Ctgb 2024’ a re-assessment is required for the active substance deltamethrin. Only the aspect exposure to surface water and monitoring data (section 8.9) will be addressed in this submission. For all other sections it is referred to the original authorisation of Decis protech (15889N). In the monitoring period 2021-2023 there is a strong correlation of water exceedances with field and greenhouse uses, therefore it was requested to review these uses.

We refer to the following authorisations:

- 20130956 NLTG; 30 August 2019 – includes all major uses
- 20191546 NLKUG; 04 June 2021 - includes all minor uses

### 8.1 Critical GAP and overall conclusions

The currently approved uses which are indicated as relevant for re-assessment by Ctgb are listed in the GAP table below.

**Table 8.1-1: Critical use pattern of the formulated product**

| 1                 | 2                      | 3                                                                         | 4                                                                 | 5                                                                                                                      | 6                | 7                                                  | 8                                                         | 9                                                      | 10                                                                                          | 11                                                                               | 12                    | 13            | 14                                              | 15              | 16                          | 17 | 18 | 19 | 20 | 21 |
|-------------------|------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|------------------|----------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-----------------------|---------------|-------------------------------------------------|-----------------|-----------------------------|----|----|----|----|----|
| Use-<br>No.<br>*  | Member<br>state(s)     | Crop and/or<br>situation<br>(crop<br>destination /<br>purpose of<br>crop) | F,<br>Fn,<br>Fp<br>n<br>G,<br>Gn<br>,<br>Gp<br>n<br>or<br>I<br>** | Pests or<br>Group of pests<br>controlled<br>(additionally:<br>developmental<br>stages of the<br>pest or pest<br>group) | Application      |                                                    |                                                           |                                                        | Application rate                                                                            |                                                                                  |                       | PHI<br>(days) | Remarks:<br>e.g. g safener/<br>synergist per ha | Conclusion      |                             |    |    |    |    |    |
|                   |                        |                                                                           |                                                                   |                                                                                                                        | Method<br>/ Kind | Timing /<br>Growth<br>stage of<br>crop &<br>season | Max.<br>number<br>a) per use<br>b) per<br>crop/<br>season | Min.<br>interval<br>between<br>applicatio<br>ns (days) | kg or L<br>product/ha<br>a) max. rate per<br>appl.<br>b) max. total rate<br>per crop/season | g or kg as/ha<br>a) max. rate per appl.<br>b) max. total rate per<br>crop/season | Water L/ha<br>min/max |               |                                                 | Groundwat<br>er | Drinking water<br>criterion |    |    |    |    |    |
| (Inter)Zonal uses |                        |                                                                           |                                                                   |                                                                                                                        |                  |                                                    |                                                           |                                                        |                                                                                             |                                                                                  |                       |               |                                                 |                 |                             |    |    |    |    |    |
| 1                 | The<br>Netherlan<br>ds | Potato<br>(SOLTU)                                                         | F                                                                 | Leptinotarsa<br>decemlineat<br>a (LPTNDE)                                                                              | Sprayi<br>ng     | BBCH<br>21-95<br>April-<br>Sept                    | a) 1<br>b) 1<br>crop/seas<br>on                           | -                                                      | a) 0.50<br>b) 0.50 (crop &<br>season)                                                       | a) 0.0075<br>b) 0.0075 (crop &<br>season)                                        | 200-400               | 7             |                                                 |                 |                             |    |    |    |    |    |

| 1 | 2               | 3                                                                                                                                        | 4 | 5                                                                                                           | 6        | 7                                | 8                        | 9  | 10                                 | 11                                      | 12      | 13 | 14                                              | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
|---|-----------------|------------------------------------------------------------------------------------------------------------------------------------------|---|-------------------------------------------------------------------------------------------------------------|----------|----------------------------------|--------------------------|----|------------------------------------|-----------------------------------------|---------|----|-------------------------------------------------|----|----|----|----|----|----|----|
| 2 | The Netherlands | Ware and starch Potato (SOLTU)                                                                                                           | F | <i>Macrosiphum euphorbiae</i> (MACSEU)                                                                      | Spraying | BBCH 21-95 April-Sept            | a) 3<br>b) 3 crop/season | 14 | a) 0.33<br>b) 1.00                 | a) 0.005<br>b) 0.015                    | 200-400 | 7  | In ware and starch potato max 1 L/ha per season |    |    |    |    |    |    |    |
| 3 | The Netherlands | Seed Potato (SOLTU)                                                                                                                      | F | <i>Macrosiphum euphorbiae</i> (MACSEU), Potato Y potyvirus (PVYO00)                                         | Spraying | BBCH 21-95 April-July            | a) 3<br>b) 3 crop/season | 14 | a) 0.33<br>b) 1.00                 | a) 0.005<br>b) 0.015                    | 200-400 | 7  | In seed potato max 1 L/ha per season            |    |    |    |    |    |    |    |
| 4 | The Netherlands | Seed Potato (SOLTU)                                                                                                                      | F | Aphids (persistent virus) PRLV (PRLV00)                                                                     | Spraying | BBCH 10-95 April-July            | a) 1<br>b) 1 crop/season | -  | a) 0.67<br>b) 0.67                 | a) 0.01<br>b) 0.01                      | 200-400 | 7  | In seed potato max 1 L/ha per season            |    |    |    |    |    |    |    |
| 5 | The Netherlands | Beets, fodder and sugar (BEAVA, BEAVC)                                                                                                   | F | <i>Thrips angusticeps</i> (THRIAN), <i>Autographa gamma</i> (PYTOGA)                                        | Spraying | BBCH 11-39 March-Sept            | a) 1<br>b) 1 crop/season | -  | a) 0.50<br>b) 0.50 (crop & season) | a) 0.0075<br>b) 0.0075 (crop & season)  | 200-400 | 30 |                                                 |    |    |    |    |    |    |    |
| 6 | The Netherlands | Cereals (barley, oat, spelt, triticale, wheat, rye, Canary grass) (TRZAW, HORVW, SECCW, TTLWI, TRZSP, PHACA, TRZAS, HORVS, SECCS, AVESA) | F | <i>Sitobion avenae</i> (MACSAV), <i>Rhopalosiphum padi</i> (RHOPPA), <i>Metopolophium dirhodum</i> (METODR) | Spraying | BBCH 12-79 Sept-Nov & April-July | a) 2<br>b) 2 crop/season | 14 | a) 0.42<br>b) 0.84 (crop & season) | a) 0.00625<br>b) 0.0125 (crop & season) | 200-400 | 30 |                                                 |    |    |    |    |    |    |    |

| 1  | 2               | 3                                                                                                                     | 4 | 5                                                                                                                                                                              | 6        | 7                            | 8                           | 9  | 10                                 | 11                                      | 12      | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
|----|-----------------|-----------------------------------------------------------------------------------------------------------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------------------|-----------------------------|----|------------------------------------|-----------------------------------------|---------|----|----|----|----|----|----|----|----|----|
| 7  | The Netherlands | Pulses (dry peas and beans) and broad bean, excluding lupine and soya bean (PIBSA, PIBSZ, LENCU, CIEAR, PHSVX, VICFX) | F | <i>Thrips angusticeps</i> (THRIAN), <i>Kakothrips robustus</i> (KAKORO), <i>Thrips tabaci</i> (THRITB), <i>Sitona lineatus</i> (SITNLI), <i>Laspeyresia nigricana</i> (LASPNI) | Spraying | BBCH 10-79 May-Sept          | a) 1<br>b) 1<br>crop/season | -  | a) 0.5<br>b) 0.5 (crop & season)   | a) 0.0075<br>b) 0.0075 (crop & season)  | 200-800 | 7  |    |    |    |    |    |    |    |    |
| 8  | The Netherlands | Caraway, common (CRYCA)                                                                                               | F | <i>Depressaria daucella</i> (DEPRDA)                                                                                                                                           | Spraying | BBCH 21 – 81 May-Sept        | a) 1<br>b) 1<br>crop/season | -  | a) 0.33<br>b) 0.33 (crop & season) | a) 0.005<br>b) 0.005 (crop & season)    | 200-400 | 45 |    |    |    |    |    |    |    |    |
| 9  | The Netherlands | Flax / Linseed (LIUUT)                                                                                                | F | <i>Thrips angusticeps</i> (THRIAN), <i>Thrips linarius</i> (THRILI), <i>Thrips tabaci</i> (THRITB)                                                                             | Spraying | BBCH 21-81 May-Sept          | a) 1<br>b) 1<br>crop/season | -  | a) 0.50<br>b) 0.50 (crop & season) | a) 0.0075<br>b) 0.0075 (crop & season)  | 200-400 | 60 |    |    |    |    |    |    |    |    |
| 10 | The Netherlands | Rape (BRSNN)                                                                                                          | F | <i>Ceutorhynchus assimilis</i> (CEUTPL) <i>Meligethes aeneus</i> (MELIAE)                                                                                                      | Spraying | BBCH 21-80 May-Aug           | a) 1<br>b) 1<br>crop/season | -  | a) 0.33<br>b) 0.33 (crop & season) | a) 0.005<br>b) 0.005 (crop & season)    | 200-400 | 45 |    |    |    |    |    |    |    |    |
| 11 | The Netherlands | Teff (ERATF)                                                                                                          | F | <i>Sitobion avenae</i> (MACSAV), <i>Rhopalosiphum padi</i>                                                                                                                     | Spraying | BBCH 12-79 Sept-Nov & April- | a) 2<br>b) 2<br>crop/season | 14 | a) 0.42<br>b) 0.84 (crop & season) | a) 0.00625<br>b) 0.0125 (crop & season) | 200-400 | 30 |    |    |    |    |    |    |    |    |

| 1  | 2               | 3                                             | 4 | 5                                                                                                                                                                            | 6        | 7                                  | 8                        | 9  | 10                                 | 11                                     | 12        | 13 | 14                                                     | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
|----|-----------------|-----------------------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------------------------|--------------------------|----|------------------------------------|----------------------------------------|-----------|----|--------------------------------------------------------|----|----|----|----|----|----|----|
|    |                 |                                               |   | (RHOPPA),<br><i>Metopolophium dirhodum</i><br>(METODR)                                                                                                                       |          | July                               |                          |    |                                    |                                        |           |    |                                                        |    |    |    |    |    |    |    |
| 12 | The Netherlands | Strawberry (FRAAN)                            | F | <i>Anthonomus rubi</i> (ANTHRU),<br><i>Lepidoptera</i> (1LEPIO),<br><i>Thrips angusticeps</i> (THRIAN),<br><i>Thrips linarius</i> (THRILI),<br><i>Thrips tabaci</i> (THRITB) | Spraying | BBCH 50-57 April-Oct               | a) 2<br>b) 2 crop/season | 14 | a) 0.2<br>b) 0.4 (crop & season)   | a) 0.003<br>b) 0.006 (crop & season)   | 300-600   | 3  | Fixed spray concentration 0.033% (33 ml product/100 L) |    |    |    |    |    |    |    |
| 13 | The Netherlands | Strawberry (FRAAN)                            | G | <i>Anthonomus rubi</i> (ANTHRU),<br><i>Lepidoptera</i> (1LEPIO),<br><i>Thrips angusticeps</i> (THRIAN),<br><i>Thrips linarius</i> (THRILI),<br><i>Thrips tabaci</i> (THRITB) | Spraying | BBCH 50-57 Jan-Dec                 | a) 2<br>b) 2 crop/season | 14 | a) 0.33<br>b) 0.66 (crop & season) | a) 0.005<br>b) 0.010 (crop & season)   | 300-1000  | 3  | Fixed spray concentration 0.033% (33 ml product/100 L) |    |    |    |    |    |    |    |
| 14 | The Netherlands | Currants and gooseberry (RIBRU, RIBNI, RIBUC) | F | <i>Lepidoptera</i> (1LEPIO)<br><i>Lygus pabulinus</i> (LYGUPA)                                                                                                               | Spraying | BBCH 50-57 & BBCH 69-81 April-Sept | a) 2<br>b) 2 crop/season | 14 | a) 0.4<br>b) 0.8 (crop & season)   | a) 0.0059<br>b) 0.0012 (crop & season) | 1000-1200 | 7  | Fixed spray concentration 0.033% (33 ml product/100 L) |    |    |    |    |    |    |    |

| 1  | 2               | 3                                                                                                                                                                                         | 4 | 5                                                                                                                                                                              | 6        | 7                     | 8                           | 9  | 10                                 | 11                                              | 12        | 13 | 14                                                     | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
|----|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------------|-----------------------------|----|------------------------------------|-------------------------------------------------|-----------|----|--------------------------------------------------------|----|----|----|----|----|----|----|
| 15 | The Netherlands | Blackberry, raspberry (Rubus spp.) (RUBFR, RUBID, RUBPH)                                                                                                                                  | F | <i>Anthonomus rubi</i> (ANTHRU)                                                                                                                                                | Spraying | BBCH 50-57 April-Sept | a) 2<br>b) 2<br>crop/season | 14 | a) 0.4<br>b) 0.8 (crop & season)   | a) 0.0059<br>b) 0.0012 (crop & season)          | 1000-1200 | 7  | Fixed spray concentration 0.033% (33 ml product/100 L) |    |    |    |    |    |    |    |
| 16 | The Netherlands | Legume vegetables (Beans with pod, beans without pod, peas with pod, peas without pod) Incl. edamame (PHSVN, PHSVX, PHSCO, VIGSC, VIGSI, VICFX, PHSLU, PIBSX, TTGPU, PIBSZ, PIBSX, PIBSA) | F | <i>Thrips angusticeps</i> (THRIAN), <i>Kakothrips robustus</i> (KAKORO), <i>Thrips tabaci</i> (THRITB), <i>Sitona lineatus</i> (SITNLI), <i>Laspeyresia nigricana</i> (LASPNI) | Spraying | BBCH 10-79 May-Sept   | a) 1<br>b) 1<br>crop/season | -  | a) 0.5<br>b) 0.5 (crop & season)   | a) 0.0075<br>b) 0.0075 (crop & season)          | 200-800   | 7  |                                                        |    |    |    |    |    |    |    |
| 17 | The Netherlands | Fruiting vegetable of cucurbitaceae with edible skin (zucchini (courgette), cucumber, gherkins) (CUMSG, CUUPG, CUUPM,                                                                     | G | <i>Autographa gamma</i> (PYTOGA), <i>Polia oleracea</i> (POLIOL), <i>Chrysodeixis chalcites</i> (PLUSCH), <i>Aleyrodes proletella</i> (ALEUPR),                                | Spraying | BBCH 15-89 Jan-Dec    | a) 3<br>b) 3<br>crop/season | 7  | a) 1.17<br>b) 3.50 (crop & season) | a) 0.0075 - 0.0175<br>b) 0.0525 (crop & season) | 600-1400  | 3  | 0,083% (83 ml product/100 L water)                     |    |    |    |    |    |    |    |

| 1  | 2               | 3                                                               | 4 | 5                                                                                                                                                                                         | 6        | 7                  | 8                        | 9 | 10                                 | 11                                              | 12       | 13 | 14                                 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
|----|-----------------|-----------------------------------------------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------------|--------------------------|---|------------------------------------|-------------------------------------------------|----------|----|------------------------------------|----|----|----|----|----|----|----|
|    |                 | CUMSA)                                                          |   | <i>Thrips tabaci</i> (THRITB)                                                                                                                                                             |          |                    |                          |   |                                    |                                                 |          |    |                                    |    |    |    |    |    |    |    |
| 18 | The Netherlands | Melon (CUMME)                                                   | G | <i>Autographa gamma</i> (PYTOGA),<br><i>Polia oleracea</i> (POLIOL),<br><i>Chrysodeixis chalcites</i> (PLUSCH),<br><i>Aleyrodes proletella</i> (ALEUPR),<br><i>Thrips tabaci</i> (THRITB) | Spraying | BBCH 15-89 Jan-Dec | a) 3<br>b) 3 crop/season | 7 | a) 1.17<br>b) 3.50 (crop & season) | a) 0.0075 - 0.0175<br>b) 0.0525 (crop & season) | 600-1400 | 3  | 0,083% (83 ml product/100 L water) |    |    |    |    |    |    |    |
| 19 | The Netherlands | Aubergine (eggplant), sweet / bell pepper (SOLME, CPSAN, CPSFR) | G | <i>Autographa gamma</i> (PYTOGA),<br><i>Polia oleracea</i> (POLIOL),<br><i>Chrysodeixis chalcites</i> (PLUSCH),<br><i>Aleyrodes proletella</i> (ALEUPR),<br><i>Thrips tabaci</i> (THRITB) | Spraying | BBCH 15-89 Jan-Dec | a) 3<br>b) 3 crop/season | 7 | a) 1.17<br>b) 3.50 (crop & season) | a) 0.0075 - 0.0175<br>b) 0.0525 (crop & season) | 600-1400 | 3  | 0,083% (83 ml /100 L water)        |    |    |    |    |    |    |    |
| 20 | The Netherlands | Tomato (LYPES)                                                  | G | <i>Autographa gamma</i> (PYTOGA),<br><i>Polia oleracea</i> (POLIOL),                                                                                                                      | Spraying | BBCH 15-89 Jan-Dec | a) 3<br>b) 3 crop/season | 7 | a) 0.83<br>b) 2.50 (crop & season) | a) 0.0125<br>b) 0.0375 (crop & season)          | 600-1000 | 3  | 0,083% (83 ml /100 L water)        |    |    |    |    |    |    |    |

| 1  | 2               | 3                       | 4 | 5                                                                                                                                                                                           | 6        | 7                     | 8                           | 9  | 10                                 | 11                                    | 12      | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
|----|-----------------|-------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------------|-----------------------------|----|------------------------------------|---------------------------------------|---------|----|----|----|----|----|----|----|----|----|
|    |                 |                         |   | <i>Chrysodeixis chalcites</i> (PLUSCH),<br><i>Aleyrodes proletella</i> (ALEUPR),<br><i>Thrips tabaci</i> (THRITB)                                                                           |          |                       |                             |    |                                    |                                       |         |    |    |    |    |    |    |    |    |    |
| 21 | The Netherlands | Kohlrabi (BRSOG)        | F | <i>Autographa gamma</i> (PYTOGA),<br><i>Pieris spp</i> (PIersp),<br><i>Chrysodeixis chalcites</i> (PLUSCH),<br><i>Liriomyza trifolii</i> (LIRITR),<br><i>Evergestis forvicalis</i> (EVERFO) | Spraying | BBCH 10-49<br>May-Oct | a) 2<br>b) 2<br>crop/season | 14 | a) 0.50<br>b) 1.00 (crop & season) | a) 0.0075<br>b) 0.015 (crop & season) | 200-800 | 7  |    |    |    |    |    |    |    |    |
| 22 | The Netherlands | Radishes (RAPSR, RAPSN) | F | <i>Autographa gamma</i> (PYTOGA),<br><i>Thrips angusticeps</i> (THRIAN),<br><i>Kakothrips robustus</i> (KAKORO),<br><i>Thrips linarius</i> (THRILI),<br><i>Thrips tabaci</i> (THRITB)       | Spraying | BBCH 11-49<br>May-Oct | a) 2<br>b) 2                | 14 | a) 0.50<br>b) 1.00                 | a) 0.0075<br>b) 0.015                 | 200-800 | 7  |    |    |    |    |    |    |    |    |
| 23 | The             | Turnip,                 | F | <i>Autographa</i>                                                                                                                                                                           | Spraying | BBCH                  | a) 2                        | 14 | a) 0.50                            | a) 0.0075                             | 200-800 | 7  |    |    |    |    |    |    |    |    |

| 1  | 2               | 3                                              | 4 | 5                                                                                                                                                                                                                                  | 6        | 7                       | 8                        | 9  | 10                                 | 11                                     | 12       | 13   | 14                                                                                    | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
|----|-----------------|------------------------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------|--------------------------|----|------------------------------------|----------------------------------------|----------|------|---------------------------------------------------------------------------------------|----|----|----|----|----|----|----|
|    | Netherlands     | swedes (BRSOG, BRSNA)                          |   | <i>gamma</i> (PYTOGA),<br><i>Thrips angusticeps</i> (THRIAN),<br><i>Kakothrips robustus</i> (KAKORO),<br><i>Thrips linarius</i> (THRILI),<br><i>Thrips tabaci</i> (THRITB)                                                         | ng       | 11-49 May-Oct           | b) 2                     |    | b) 1.00                            | b) 0.015                               |          |      |                                                                                       |    |    |    |    |    |    |    |
| 24 | The Netherlands | Onions, shallots, garlic (ALLCE, ALLAS, ALLSA) | F | <i>Acrolepiopsi s assectella</i> (ACROAS),<br><i>Liriomyza cepae</i> (PHYBCE),<br><i>Thrips angusticeps</i> (THRIAN),<br><i>Kakothrips robustus</i> (KAKORO),<br><i>Thrips linarius</i> (THRILI),<br><i>Thrips tabaci</i> (THRITB) | Spraying | BBCH 11-49 May-Oct      | a) 2<br>b) 2 crop/season | 14 | a) 0.50<br>b) 1.00 (crop & season) | a) 0.0075<br>b) 0.015 (crop & season)  | 200-800  | 7    |                                                                                       |    |    |    |    |    |    |    |
| 25 | The Netherlands | Asparagus (ASPOF)                              | F | <i>Crioceris asparagi</i> (CRIEAS),<br><i>Platyparea poeciloptera</i> (PLPRPO)                                                                                                                                                     | Spraying | BBCH 11-91/99 April-Oct | a) 1<br>b) 1 crop/season | -  | a) 0.50<br>b) 0.50 (crop & season) | a) 0.0075<br>b) 0.0075 (crop & season) | 500- 800 | n.a. | Post-harvest use. Applications are done in both breeding- and production fields after |    |    |    |    |    |    |    |

| 1  | 2                      | 3                                                                                                            | 4 | 5                                                                                                                                                                                                                                                                           | 6            | 7                                                                   | 8                               | 9  | 10                                    | 11                                        | 12       | 13 | 14                                                                                                                                                                 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
|----|------------------------|--------------------------------------------------------------------------------------------------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------------------------------------------------------|---------------------------------|----|---------------------------------------|-------------------------------------------|----------|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|----|----|----|----|
|    |                        |                                                                                                              |   |                                                                                                                                                                                                                                                                             |              |                                                                     |                                 |    |                                       |                                           |          |    | emergence.<br>For<br>production<br>fields, this is<br>equivalent to<br>applications<br>after harvest<br>since<br>asparagus is<br>harvested<br>before<br>emergence. |    |    |    |    |    |    |    |
| 26 | The<br>Netherlan<br>ds | Leek,<br>common<br>(ALLPO)                                                                                   | F | <i>Acrolepiopsi<br/>s assectella</i><br>(ACROAS),<br><i>Liriomyza<br/>cepa</i><br>(PHYBCE),<br><i>Thrips<br/>angusticeps</i><br>(THRIAN),<br><i>Kakothrips<br/>robustus</i><br>(KAKORO),<br><i>Thrips<br/>linarius</i><br>(THRILI),<br><i>Thrips<br/>tabaci</i><br>(THRITB) | Sprayi<br>ng | BBCH<br>13-45<br>March-<br>Oct                                      | a) 2<br>b) 2<br>crop/seas<br>on | 14 | a) 0.50<br>b) 1.00 (crop &<br>season) | a) 0.0075<br>b) 0.015 ((crop &<br>season) | 250-600  | 7  |                                                                                                                                                                    |    |    |    |    |    |    |    |
| 27 | The<br>Netherlan<br>ds | Edible<br>mushrooms<br>(AGARBI,<br>PLEUOS,<br>LENTED,<br>LPSTNU,<br>PHOLNA,<br>AGARAR,<br>COPNCO,<br>FLMUVE, | I | <i>Megaselia<br/>halterata</i><br>(MGASHA),<br><i>Sciaridae</i><br>(ISCI AF)                                                                                                                                                                                                | Sprayi<br>ng | Pre &<br>post<br>emergen<br>ce of the<br>fungus<br>fruit<br>Jan-Dec | a) 2<br>b) 2<br>crop/seas<br>on | 14 | a) 0.50<br>b) 1.00 (crop &<br>season) | a) 0.0075<br>b) 0.015 (crop &<br>season)  | 900-1000 | 3  | 3 days before<br>the 1st flush<br>and 3 days<br>before the<br>2nd flush.                                                                                           |    |    |    |    |    |    |    |

| 1  | 2               | 3                                                                        | 4 | 5                                                                                                                                                                                                                                                                                                                                                                          | 6        | 7                  | 8                           | 9 | 10                                   | 11                                        | 12       | 13   | 14                          | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
|----|-----------------|--------------------------------------------------------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------------|-----------------------------|---|--------------------------------------|-------------------------------------------|----------|------|-----------------------------|----|----|----|----|----|----|----|
|    |                 | AGCYCY,<br>HYPZMA,<br>STPRRU,<br>GRIFFR,<br>GANOLU,<br>AURIAU,<br>AGARBZ |   |                                                                                                                                                                                                                                                                                                                                                                            |          |                    |                             |   |                                      |                                           |          |      |                             |    |    |    |    |    |    |    |
| 28 | The Netherlands | Flower bulb and flower tuber crops                                       | G | <i>Coccidae</i> (1COCCF),<br><i>Lepidoptera</i> (1LEPIO),<br><i>Liriomyza trifolii</i> (LIRITR),<br><i>Liriomyza cepae</i> (PHYBCE),<br><i>Aleyrodes proletella</i> (ALEUPR),<br><i>Thrips angusticeps</i> (THRIAN),<br><i>Kakothrips robustus</i> (KAKORO),<br><i>Thrips linarius</i> (THRILI),<br><i>Thrips tabaci</i> (THRITB),<br><i>Taeniothrips simplex</i> (TAETSI) | Spraying | BBCH 15-60 Jan-Dec | a) 3<br>b) 3<br>crop/season | 7 | a) 0.83<br>b) 2.5<br>(crop & season) | a) 0.0125<br>b) 0.0375<br>(crop & season) | 500-1000 | n.a. | 0,083% (83 ml /100 L water) |    |    |    |    |    |    |    |
| 29 | The Netherlands | Floriculture crops, perennial crops                                      | G | <i>Coccidae</i> (1COCCF),<br><i>Autographa gamma</i> (PYTOGA),                                                                                                                                                                                                                                                                                                             | Spraying | BBCH 10-60 Jan-Dec | a) 3<br>b) 3<br>crop/season | 7 | a) 0.83<br>b) 2.5<br>(crop & season) | a) 0.0125<br>b) 0.0375<br>(crop & season) | 500-1000 | n.a. | 0,083% (83 ml /100 L water) |    |    |    |    |    |    |    |

| 1  | 2               | 3            | 4 | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6        | 7                        | 8                           | 9 | 10                                 | 11                                     | 12        | 13   | 14                                                                                                | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
|----|-----------------|--------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------------------|-----------------------------|---|------------------------------------|----------------------------------------|-----------|------|---------------------------------------------------------------------------------------------------|----|----|----|----|----|----|----|
|    |                 |              |   | <i>Pieris spp.</i><br>(PIersp,<br><i>Polia oleracea</i><br>(POLIOL),<br><i>Chrysodeixis chalcites</i><br>(PLUSCH),<br><i>Liriomyza trifolii</i><br>(LIRITR),<br><i>Liriomyza cepae</i><br>(PHYBCE),<br><i>Aleyrodes proletella</i><br>(ALEUPR),<br><i>Thrips angusticeps</i><br>(THRIAN),<br><i>Kakothrips robustus</i><br>(KAKORO),<br><i>Thrips linarius</i><br>(THRILI),<br><i>Thrips tabaci</i><br>(THRITB),<br><i>Taeniothrips simplex</i><br>(TAETSI) |          |                          |                             |   |                                    |                                        |           |      |                                                                                                   |    |    |    |    |    |    |    |
| 30 | The Netherlands | Tree nursery | G | <i>Lepidoptera</i><br>(1LEPIO),<br><i>Thrips angusticeps</i><br>(THRIAN),<br><i>Kakothrips robustus</i><br>(KAKORO),<br><i>Thrips</i>                                                                                                                                                                                                                                                                                                                       | Spraying | BBCH<br>15-89<br>Jan-Dec | a) 3<br>b) 3<br>crop/season | 7 | a) 0.25<br>b) 0.75 (crop & season) | a) 0.0038<br>b) 0.0113 (crop & season) | 500 – 750 | n.a. | For tree nursery there are 2 different application technologies. For low crops (≤ ±1m) a standard |    |    |    |    |    |    |    |

Product code / Product name: **102000025993/ Decis Protech**

Part B – Section 8 - National Assessment

MS version

| 1                                         | 2  | 3                                                                                                                                                                         | 4 | 5                                                                                                                                                 | 6        | 7                                         | 8                               | 9  | 10                                    | 11                                         | 12      | 13 | 14                                                                                                                                                              | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
|-------------------------------------------|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------------|---------------------------------|----|---------------------------------------|--------------------------------------------|---------|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|----|----|----|----|
|                                           |    |                                                                                                                                                                           |   | <i>linarius</i><br>(THRILI),<br><i>Thrips</i><br><i>tabaci</i><br>(THRITB)                                                                        |          |                                           |                                 |    |                                       |                                            |         |    | sprayer is<br>used. For<br>high crops ( $\geq$<br>$\pm 1$ m) growers<br>use orchard<br>sprayers like<br>in pome fruit.<br><br>0,033% (33<br>ml /100 L<br>water) |    |    |    |    |    |    |    |
| <b>Minor uses according to Article 51</b> |    |                                                                                                                                                                           |   |                                                                                                                                                   |          |                                           |                                 |    |                                       |                                            |         |    |                                                                                                                                                                 |    |    |    |    |    |    |    |
| 31                                        | NL | Lupine,<br>Broadbean<br>(pulses &<br>foddercrop)<br>(LUPAL,<br>VICFX)                                                                                                     | F | <i>Thrips</i><br><i>tabaci</i><br>(TRITB),<br><i>Sitona</i><br><i>lineatus</i><br>(SITNLI),<br><i>Laspeyresia</i><br><i>nigricana</i><br>(LASPNI) | Spraying | BBCH<br>10-79<br>May-<br>Sept             | a) 1<br>b) 1<br>crop/seas<br>on |    | a) 0.5<br>b) 0.5 (crop &<br>season)   | a) 0.0075<br>b) 0.0075 (crop &<br>season)  | 200-400 | 7  |                                                                                                                                                                 |    |    |    |    |    |    |    |
| 32                                        | NL | Grassseed<br>crops, except<br>English<br>ryegrass<br>(LOLMU,<br>ARRL,<br>LOLMG,<br>LOLBO,<br>FESSS,<br>POASS,<br>PHLPR,<br>DACGL,<br>AGSSS,<br>CYXCR,<br>DECCA,<br>KOLSS) | F | Larvae of<br><i>Bibionidae</i><br>(1BIBIF)                                                                                                        | Spraying | BBCH<br>21-69,<br>Apr-Jun<br>Sept-<br>Nov | a) 2<br>b) 2<br>crop/seas<br>on | 14 | a) 0.42<br>b) 0.84 (crop &<br>season) | a) 0.00625<br>b) 0.0125 (crop &<br>season) | 200-400 | 14 |                                                                                                                                                                 |    |    |    |    |    |    |    |
| 33                                        | NL | Poppy seed,<br>gold of                                                                                                                                                    | F | <i>Depressaria</i><br>sp.                                                                                                                         | Spraying | BBCH<br>21 – 81,                          | a) 1<br>b) 1                    |    | a) 0.33<br>b) 0.33 (crop &            | a) 0.005<br>b) 0.005 (crop &               | 200-400 | 60 |                                                                                                                                                                 |    |    |    |    |    |    |    |

| 1  | 2  | 3                                                                           | 4 | 5                                                   | 6        | 7                     | 8                        | 9  | 10                                 | 11                                      | 12      | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
|----|----|-----------------------------------------------------------------------------|---|-----------------------------------------------------|----------|-----------------------|--------------------------|----|------------------------------------|-----------------------------------------|---------|----|----|----|----|----|----|----|----|----|
|    |    | pleasure, mustard seed, evening primrose (PAPSO, CMASA, SINAL, BRSNI, OEOS) |   | (DEPRSP)                                            |          | May-sept              | crop/season              |    | season)                            | season)                                 |         |    |    |    |    |    |    |    |    |    |
| 34 | NL | Fibre crops (CNISA, LIUT, URTSS)                                            | F | <i>Thysanoptera</i> (1THYSO)                        | Spraying | BBCH 21-81, May-sept  | a) 1<br>b) 1 crop/season |    | a) 0.5<br>b) 0.5 (crop & season)   | a) 0.0075<br>b) 0.0075 (crop & season)  | 200-400 | 60 |    |    |    |    |    |    |    |    |
| 35 | NL | Witloof (CICIF)                                                             | F | <i>Psila rosae</i> (PSILRO)                         | Spraying | BBCH 12-49, May-Jul   | a) 2<br>b) 2 crop/season | 14 | a) 0.5<br>b) 1 (crop & season)     | a) 0.0075<br>b) 0.015 (crop & season)   | 200-400 | 14 |    |    |    |    |    |    |    |    |
| 36 | NL | Cichorei(CICIS)                                                             | F | <i>Psila rosae</i> (PSILRO)                         | Spraying | BBCH 12-49, May-Jul   | a) 2<br>b) 2 crop/season | 14 | a) 0.5<br>b) 1 (crop & season)     | a) 0.0075<br>b) 0.015 (crop & season)   | 200-400 | 7  |    |    |    |    |    |    |    |    |
| 37 | NL | Buckwheat (FAGES)                                                           | F | Aphids (1APHIG)                                     | Spraying | BBCH 12-79, May-Jul   | a) 2<br>b) 2 crop/season | 14 | a) 0.33<br>b) 0.66 (crop & season) | a) 0.005<br>b) 0.01 (crop & season)     | 200-400 | 30 |    |    |    |    |    |    |    |    |
| 38 | NL | Sorghum, common millet (SORVU, PANMI)                                       | F | Aphids (1APHIG), <i>Lepidoptera</i> (1LEPIO)        | Spraying | BBCH 13-79, Jun-sept  | a) 1<br>b) 1 crop/season |    | a) 0.5<br>b) 0.5                   | a) 0.0075<br>b) 0.0075                  | 200-400 | 30 |    |    |    |    |    |    |    |    |
| 39 | NL | Quinoa (CHEQU)                                                              | F | <i>Sitobion avenae</i> (MACSAV), <i>Rhopalosiph</i> | Spraying | BBCH 12-79 April-July | a) 2<br>b) 2 crop/season | 14 | a) 0.42<br>b) 0.84 (crop & season) | a) 0.00625<br>b) 0.0125 (crop & season) | 200-400 | 30 |    |    |    |    |    |    |    |    |

| 1  | 2  | 3                                                                                                                         | 4 | 5                                                                                                                                                                                                                                            | 6        | 7                                | 8                           | 9  | 10                               | 11                                     | 12        | 13 | 14                         | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
|----|----|---------------------------------------------------------------------------------------------------------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------------------------|-----------------------------|----|----------------------------------|----------------------------------------|-----------|----|----------------------------|----|----|----|----|----|----|----|
|    |    |                                                                                                                           |   | <i>um padi</i> (RHOPPA),<br><i>Metopolophium dirhodum</i> (METODR)                                                                                                                                                                           |          |                                  |                             |    |                                  |                                        |           |    |                            |    |    |    |    |    |    |    |
| 40 | NL | Berries, excluding Currant, Goosberry (VACCO, VACMY, VACVI, VACOX, VACMA, MORSS, ROSSS, ATIAR, SAMSS, ABOSS, HIORH, LONCO | F | <i>Lepidoptera</i> (1LEPIO)<br><i>Miridae</i> (1MIRIF)                                                                                                                                                                                       | Spraying | BBCH 50-57 & BBCH 69-81, apr-sep | a) 2<br>b) 2<br>crop/season | 14 | a) 0.4<br>b) 0.8 (crop & season) | a) 0.0059<br>b) 0.0012 (crop & season) | 1000-1200 | 7  | 0.033% (33 mL/100 L water) |    |    |    |    |    |    |    |
| 41 | NL | Grapes (VITVI)                                                                                                            | F | <i>Scaphoideus titanus</i> (SCAPLI),<br><i>Erythroneura comes</i> (ERYTCO),<br><i>Drosophila melanogaster</i> (DROSME),<br><i>Rhynchites caeruleus</i> (RNCHCA),<br><i>Sparganothis pilleriana</i> (SPARPI),<br><i>Byctiscus betulae</i> (3) | Spraying | BBCH 50-57 & BBCH 69-81, apr-sep | a) 2<br>b) 2<br>crop/season | 14 | a) 0.4<br>b) 0.8 (crop & season) | a) 0.0059<br>b) 0.0012 (crop & season) | 1000-1200 | 7  | 0.033% (33 mL/100 L water) |    |    |    |    |    |    |    |

| 1  | 2  | 3                                                           | 4 | 5                                                                                                                                 | 6        | 7                                  | 8                                  | 9  | 10                                 | 11                                     | 12        | 13 | 14                                                     | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
|----|----|-------------------------------------------------------------|---|-----------------------------------------------------------------------------------------------------------------------------------|----------|------------------------------------|------------------------------------|----|------------------------------------|----------------------------------------|-----------|----|--------------------------------------------------------|----|----|----|----|----|----|----|
| 42 | NL | Common dewberry (dauwbraam) onbedekte teelt (RUBCA, RUBLO)  | F | <i>Anthonomus rubi</i> (ANTHRU) <i>Lepidoptera</i> (1LEPIO)                                                                       | Spraying | BBCH 50-57 & BBCH 69-81 April-Sept | a) 2 (14)<br>b) 2 (14) crop/season | 14 | a) 0.4<br>b) 0.8 (crop & season)   | a) 0.0059<br>b) 0.0012 (crop & season) | 1000-1200 | 7  | Fixed spray concentration 0.033% (33 ml product/100 L) |    |    |    |    |    |    |    |
| 43 | NL | Lamb's lettuce and rucola (VLLLO, ERUVE)                    | G | <i>Autographa gamma</i> (PYTOGA), <i>Pieris</i> sp. (PIersp), <i>Polia oleracea</i> (POLIOL), <i>Plutella xylostella</i> (PLUTMA) | Spraying | BBCH 11-49 Jan-Dec                 | a) 2<br>b) 2 crop/season           | 7  | a) 0.83<br>b) 1.66 (crop & season) | a) 0.0125<br>b) 0.025 (crop & season)  | 200-1000  | 14 | 0,083% (83 ml /100 L water)                            |    |    |    |    |    |    |    |
| 44 | NL | Vegetable sprouts, baby leaves (LEPSA, PHSAU, MEDSA, ERUVE) | G | <i>Autographa gamma</i> (PYTOGA), <i>Pieris</i> sp. (PIersp), <i>Polia oleracea</i> (POLIOL), <i>Plutella xylostella</i> (PLUTMA) | Spraying | BBCH 11-49 Jan-Dec                 | a) 2<br>b) 2 crop/season           | 7  | a) 0.83<br>b) 1.66 (crop & season) | a) 0.0125<br>b) 0.025 (crop & season)  | 200-1000  | 14 | 0,083% (83 ml /100 L water)                            |    |    |    |    |    |    |    |
| 45 | NL | Pumpkins & watermelon (CUUPE, CUMME)                        | G | <i>Autographa gamma</i> (PYTOGA), <i>Polia oleracea</i> (POLIOL),                                                                 | Spraying | BBCH 15-89 Jan-Dec                 | a) 3<br>b) 3 crop/season           | 7  | a) 1.17<br>b) 3.50 (crop & season) | a) 0.0175<br>b) 0.0525 (crop & season) | 600-1400  | 3  | 0,083% (83 ml product/100 L water)                     |    |    |    |    |    |    |    |

| 1  | 2  | 3                        | 4 | 5                                                                                                                                                                                         | 6        | 7                       | 8                           | 9 | 10                                 | 11                                     | 12       | 13 | 14                          | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
|----|----|--------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------|-----------------------------|---|------------------------------------|----------------------------------------|----------|----|-----------------------------|----|----|----|----|----|----|----|
|    |    |                          |   | <i>Chrysodeixis chalcites</i> (PLUSCH),<br><i>Aleyrodes proletella</i> (ALEUPR),<br><i>Thrips tabaci</i> (THRITB)                                                                         |          |                         |                             |   |                                    |                                        |          |    |                             |    |    |    |    |    |    |    |
| 46 | NL | Courgette (CUUPG, CUUPM) | F | <i>Lepidoptera</i> (1LEPIO)                                                                                                                                                               | Spraying | BBCH 15-89<br>May-Sept  | a) 1<br>b) 1<br>crop/season |   | a) 0.5<br>b) 0.5 (crop & season)   | a) 0.0075<br>b) 0.0075 (crop & season) | 200-800  | 3  |                             |    |    |    |    |    |    |    |
| 47 | NL | Husk tomato (PHYIX)      | G | <i>Autographa gamma</i> (PYTOGA),<br><i>Polia oleracea</i> (POLIOL),<br><i>Chrysodeixis chalcites</i> (PLUSCH),<br><i>Aleyrodes proletella</i> (ALEUPR),<br><i>Thrips tabaci</i> (THRITB) | Spraying | BBCH 15-89<br>Jan-Dec   | a) 3<br>b) 3<br>crop/season | 7 | a) 0.83<br>b) 2.50 (crop & season) | a) 0.0125<br>b) 0.0373 (crop & season) | 600-1000 | 3  | 0,083% (83 ml /100 L water) |    |    |    |    |    |    |    |
| 48 | NL | Small radish (RAPSr)     | G | <i>Thrips tabaci</i> (THRITB),<br><i>Autographa gamma</i> (PYTOGA)                                                                                                                        | Spraying | BBCH 12-49,<br>May-Sept | a) 2<br>b) 2<br>crop/season | 7 | a) 0.83<br>b) 1.66 (crop & season) | a) 0.0125<br>b) 0.025 (crop & season)  | 200-1000 | 7  | 0,083% (83 ml /100 L water) |    |    |    |    |    |    |    |

| 1  | 2  | 3                                                                                                             | 4 | 5                                                                                                          | 6        | 7                   | 8                           | 9  | 10                                 | 11                                      | 12      | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
|----|----|---------------------------------------------------------------------------------------------------------------|---|------------------------------------------------------------------------------------------------------------|----------|---------------------|-----------------------------|----|------------------------------------|-----------------------------------------|---------|----|----|----|----|----|----|----|----|----|
| 49 | NL | Root vegetables, except carrots (SIUSI, PARCT, PAVSA)                                                         | F | <i>Psila rosae</i> (PSILRO)                                                                                | Spraying | BBCH 12-49, Apr-Jul | a) 2<br>b) 2<br>crop/season | 14 | a) 0.5<br>b) 1 (crop & season)     | a) 0.0075<br>b) 0.015 (crop & season)   | 200-800 | 7  |    |    |    |    |    |    |    |    |
| 50 | NL | Jerusalem artichoke (HELTU)                                                                                   | F | <i>Psila rosae</i> (PSILRO)                                                                                | Spraying | BBCH 12-49, Apr-Jul | a) 2<br>b) 2<br>crop/season | 14 | a) 0.42<br>b) 0.84 (crop & season) | a) 0.00625<br>b) 0.0125 (crop & season) | 200-800 | 7  |    |    |    |    |    |    |    |    |
| 51 | NL | Japanese artichoke, red beet, celeriac, black salsify, horseradish (STASB, BEAVD, APUGR, SCVHI, TROPS, ARWLA) | F | <i>Psila rosae</i> (PSILRO)                                                                                | Spraying | BBCH 12-49, Apr-Jul | a) 2<br>b) 2<br>crop/season | 14 | a) 0.5<br>b) 1 (crop & season)     | a) 0.0075<br>b) 0.015 (crop & season)   | 200-800 | 7  |    |    |    |    |    |    |    |    |
| 52 | NL | Spring onion (ALLCE)                                                                                          | F | <i>Acrolepiopsis assectella</i> (ACROAS)<br><i>Thysanoptera</i> (1THYSO),<br><i>Liriomyza</i> sp. (1LIRIG) | Spraying | BBCH 13-45 May-Sept | a) 2<br>b) 2<br>crop/season | 14 | a) 0.50<br>b) 1.00 (crop & season) | a) 0.0075<br>b) 0.015 ((crop & season)  | 200-800 | 7  |    |    |    |    |    |    |    |    |
| 53 | NL | Medicinal herbs (OCIBA,                                                                                       | F | <i>Autographa gamma</i> (PYTOGA),                                                                          | Spraying | BBCH 11-49 March-   | a) 2<br>b) 2<br>crop/seas   | 7  | a) 0.42<br>b) 0.84 (crop & season) | a) 0.00625<br>b) 0.0125 (crop & season) | 200-800 | 7  |    |    |    |    |    |    |    |    |

| 1  | 2  | 3                                                                                                                                                                                                                                                                                                                                      | 4 | 5                                                                                                                           | 6        | 7             | 8            | 9 | 10                         | 11                            | 12       | 13 | 14                      | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
|----|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----------------------------------------------------------------------------------------------------------------------------|----------|---------------|--------------|---|----------------------------|-------------------------------|----------|----|-------------------------|----|----|----|----|----|----|----|
|    |    | ALLSC,<br>ALLTU,<br>STIHO,<br>STIMO,<br>MLSOF,<br>AFEGR,<br>ARTDR,<br>HYSOF,<br>ARNCE,<br>CORSO,<br>PARCR,<br>LEWOF,<br>MAHJO,<br>ORIVU,<br>MENSS,<br>SANMI,<br>RMSOF,<br>SALOF,<br>THYVU,<br>FOEVD,<br>APUGS,<br>RUMAC,<br>CAHSI,<br>CUUPG,<br>TAGER,<br>TOPMA,<br>CLDOF,<br>LOBIN,<br>DIKLA,<br>VIOTR,<br>MATCH,<br>RUDPU,<br>CLDOF) |   | Pieris sp.<br>(PIERSP),<br><i>Polia</i><br><i>oleracea</i><br>(POLIOL),<br><i>Plutella</i><br><i>xylostella</i><br>(PLUTMA) |          | Oct           | on           |   |                            |                               |          |    |                         |    |    |    |    |    |    |    |
| 54 | NL | Aromatic<br>herbs,                                                                                                                                                                                                                                                                                                                     | G | <i>Autographa</i><br><i>gamma</i>                                                                                           | Spraying | BBCH<br>11-49 | a) 2<br>b) 2 | 7 | a) 0.83<br>b) 1.66 (crop & | a) 0.0125<br>b) 0.025 (crop & | 200-1000 | 14 | 0,083% (83<br>ml /100 L |    |    |    |    |    |    |    |

| 1 | 2 | 3                                                                                                                                                                                                                                                                                                                                                                      | 4 | 5                                                                                                                                        | 6 | 7       | 8               | 9 | 10      | 11      | 12 | 13 | 14     | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
|---|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------|---|---------|-----------------|---|---------|---------|----|----|--------|----|----|----|----|----|----|----|
|   |   | medicinal<br>herbs<br>(OCIBA,<br>ALLSC,<br>ALLTU,<br>STIHO,<br>STIMO,<br>MLSOF,<br>AFEGR,<br>ARTDR,<br>HYSOF,<br>ARNCE,<br>CORS,<br>PARCR,<br>LEWOF,<br>MAHJO,<br>ORIVU,<br>MENSS,<br>SANMI,<br>RMSOF,<br>SALOF,<br>THYVU,<br>FOEVD,<br>APUGS,<br>RUMAC,<br>CAHSI,<br>CUUPG,<br>TAGER,<br>TOPMA,<br>CLDOF,<br>LOBIN,<br>DIKLA,<br>VIOTR,<br>MATCH,<br>RUDPU,<br>CLDOF) |   | (PYTOGA),<br>Pieris sp.<br>(PIERSP),<br><i>Polia</i><br><i>oleracea</i><br>(POLIOL),<br><i>Plutella</i><br><i>xylostella</i><br>(PLUTMA) |   | Jan-Dec | crop/seas<br>on |   | season) | season) |    |    | water) |    |    |    |    |    |    |    |

| 1  | 2  | 3                                                                      | 4 | 5                                                                                                                                                                                                                                                                                    | 6        | 7                    | 8                        | 9  | 10                                 | 11                                      | 12       | 13 | 14                          | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
|----|----|------------------------------------------------------------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------------|--------------------------|----|------------------------------------|-----------------------------------------|----------|----|-----------------------------|----|----|----|----|----|----|----|
| 55 | NL | Medicinal root crops (LEWOF, ANKAR, PIMSA, PARCT, VALOF, PNXGI, RUDPU) | F | <i>Psila rosae</i> (PSILRO)                                                                                                                                                                                                                                                          | Spraying | BBCH 12-49 March-Oct | a) 2<br>b) 2 crop/season | 14 | a) 0.42<br>b) 0.84 (crop & season) | a) 0.00625<br>b) 0.0125 (crop & season) | 200-800  | 7  |                             |    |    |    |    |    |    |    |
| 56 | NL | Ornamental crops                                                       | F | <i>Lepidoptera</i> (1LEPIO)                                                                                                                                                                                                                                                          | Spraying | BBCH 10-60, apr-oct  | a) 2<br>b) 2 crop/season | 7  | a) 0.33<br>b) 0.66                 | a) 0.005<br>b) 0.01 (crop & season)     | 200-1200 | NA |                             |    |    |    |    |    |    |    |
| 57 | NL | Plant breeding crops and basic seed production                         | G | <i>Coccidae</i> (1COCCF),<br><i>Chrysodeixis chalcites</i> (PLUSCH),<br><i>Liriomyza trifolii</i> (LIRITR),<br><i>Liriomyza cepae</i> (PHYBCE),<br><i>Aleyrodes proletella</i> (ALEUPR),<br><i>Thrips tabaci</i> (THRITB),<br><i>Autographa gamma</i> (PYTOGA),<br><i>Pieris</i> sp. | Spraying | BBCH 10-60 Jan-Dec   | a) 3<br>b) 3 crop/season | 7  | a) 0.83<br>b) 2.5 (crop & season)  | a) 0.0125<br>b) 0.0375 (crop & season)  | 500-1000 | NA | 0,083% (83 ml /100 L water) |    |    |    |    |    |    |    |

Product code / Product name: **102000025993/ Decis Protech**

Part B – Section 8 - National Assessment

MS version

| 1  | 2  | 3                 | 4 | 5                                                                                                                                                                                                                                                                                                                           | 6        | 7                     | 8                           | 9 | 10                                   | 11                                     | 12       | 13 | 14                          | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
|----|----|-------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------------|-----------------------------|---|--------------------------------------|----------------------------------------|----------|----|-----------------------------|----|----|----|----|----|----|----|
|    |    |                   |   | (PIERSP),<br><i>Polia oleracea</i><br>(POLIOL),                                                                                                                                                                                                                                                                             |          |                       |                             |   |                                      |                                        |          |    |                             |    |    |    |    |    |    |    |
| 58 | NL | Flower seed crops | G | <i>Autographa gamma</i><br>(PYTOGA),<br><i>Pieris</i> sp.<br>(PIERSP),<br><i>Polia oleracea</i><br>(POLIOL),<br><i>Chrysodeixis chalcites</i><br>(PLUSCH),<br><i>Liriomyza trifolii</i><br>(LIRITR),<br><i>Liriomyza cepae</i><br>(PHYBCE),<br><i>Aleyrodes proletella</i><br>(ALEUPR),<br><i>Thrips tabaci</i><br>(THRITB) | Spraying | BBCH 10-60<br>Jan-Dec | a) 3<br>b) 3<br>crop/season | 7 | a) 0.83<br>b) 2.5<br>(crop & season) | a) 0.0125<br>b) 0.0375 (crop & season) | 500-1000 | NA | 0,083% (83 ml /100 L water) |    |    |    |    |    |    |    |

\* Use number(s) in accordance with the list of all intended GAPs in Part B, Section 0 should be given in column 1

\*\* F: professional field use, Fn: non-professional field use, Fpn: professional and non-professional field use, G: professional greenhouse use, Gn: non-professional greenhouse use, Gpn: professional and non-professional greenhouse use, I: indoor application

Explanation for column 15 “Conclusion”

|   |                                                             |
|---|-------------------------------------------------------------|
| A | Safe use                                                    |
| R | Further refinement and/or risk mitigation measures required |
| C | To be confirmed by cMS                                      |
| N | No safe use                                                 |

## **8.2 Metabolites considered in the assessment**

For this NLWG application only the active substance deltamethrin will be assessed. Therefore, metabolites are not considered in the assessment.

## **8.3 Rate of degradation in soil (KCP 9.1.1)**

This section is outside the scope of the re-evaluation. Please refer to the core assessment of the original authorisation (15889N; 20130956 NLTG; 30 August 2019 & 20191546 NLKUG; 04 June 2021).

## **8.4 Field studies (KCP 9.1.1.2)**

This section is outside the scope of the re-evaluation. Please refer to the core assessment of the original authorisation (15889N; 20130956 NLTG; 30 August 2019 & 20191546 NLKUG; 04 June 2021).

## **8.5 Mobility in soil (KCP 9.1.2)**

This section is outside the scope of the re-evaluation. Please refer to the core assessment of the original authorisation (15889N; 20130956 NLTG; 30 August 2019 & 20191546 NLKUG; 04 June 2021).

## **8.6 Degradation in the water/sediment systems (KCP 9.2, KCP 9.2.1, KCP 9.2.2, KCP 9.2.3)**

This section is outside the scope of the re-evaluation. Please refer to the core assessment of the original authorisation (15889N; 20130956 NLTG; 30 August 2019 & 20191546 NLKUG; 04 June 2021).

## **8.7 Predicted Environmental Concentrations in soil ( $PEC_{soil}$ ) (KCP 9.1.3)**

This section is outside the scope of the re-evaluation. Please refer to the core assessment of the original authorisation (15889N; 20130956 NLTG; 30 August 2019 & 20191546 NLKUG; 04 June 2021).

## 8.8 Predicted Environmental Concentrations in groundwater (PEC<sub>gw</sub>) (KCP 9.2.4)

This section is outside the scope of the re-evaluation. Please refer to the core and national assessment of the original authorisation (15889N; 20130956 NLTG; 30 August 2019 & 20191546 NLKUG; 04 June 2021).

## 8.9 Predicted Environmental Concentrations in surface water (PEC<sub>sw</sub>)(KCP 9.2.5)

PEC<sub>sw</sub> for field and greenhouse uses were calculated with the model TOXSWA considering Dutch specific drift values and relevant framework at the time of the first dossier submission of Decis Protech. In the present document new calculations are performed for the field uses considering drift values from the WUR Drift calculator and updated drift values for small fruit crops. For the greenhouse uses calculations are performed with the GEM model.

### 8.9.1 Justification for new endpoints

Endpoints mentioned in the NL addendum of the 1<sup>st</sup> authorization (15889N; 20130956 NLTG; 30 August 2019) were used for this assessment. FOCUS default values were used as inputs where no values were mentioned in the list of endpoints.

### 8.9.2 Active substances, relevant metabolites and the formulation (KCP 9.2.5)

**Table 8.9-1: Input parameters related to active substance deltamethrin for PEC<sub>sw</sub> calculations**

| Compound                                   | deltamethrin                           | Value in accordance to EU endpoint y/n/<br>Reference                                    |
|--------------------------------------------|----------------------------------------|-----------------------------------------------------------------------------------------|
| Molecular weight (g/mol)                   | 505.2                                  | RR report 1 <sup>st</sup> authorisation August 2019 (20130956 NLTG),<br>Table NA 9.7- 3 |
| Saturated vapour pressure (Pa) at 20°C     | 1.1E-6                                 |                                                                                         |
| Molar enthalpy of vaporisation (J/mol)     | 95000 (default)                        |                                                                                         |
| Water solubility (g/L) at 20°C             | 2.7E-7<br>0.001 (minimum in GEM)       |                                                                                         |
| Molar enthalpy of solution (J/mol)         | 27000 (default)                        |                                                                                         |
| Activation energy (J/mol)                  | 65400 (default)*                       |                                                                                         |
| Octanol-Water partitioning coefficient (-) | 39811 (Log Pow = 4.6)                  |                                                                                         |
| Kom (L/kg)                                 | 5940000 (GEM)<br><br>1000000 (maximum) |                                                                                         |

| Compound                                                     | deltamethrin                         | Value in accordance to EU endpoint y/n/<br>Reference |
|--------------------------------------------------------------|--------------------------------------|------------------------------------------------------|
|                                                              | allowed value in TOXSWA)             |                                                      |
| Concentration pesticide at which Kom was observed (mg/L)     | 1                                    |                                                      |
| Freundlich Exponent 1/n                                      | 0.93                                 |                                                      |
| DT <sub>50</sub> ,water (d)                                  | 1000**                               |                                                      |
| DT <sub>50</sub> ,sed (d)                                    | 65***                                |                                                      |
| DT <sub>50</sub> ,soil (d)                                   | 28.3                                 |                                                      |
| Half-life in recirculation water (d) at 20°C (GEM)           | 1000                                 |                                                      |
| Molar activation energy (kJ mol <sup>-1</sup> ) (GEM)        | 75                                   |                                                      |
| half-life in disinfection tank (d) at 20°C (GEM)             | 1000                                 |                                                      |
| Half-life on the greenhouse floor (d) at 20°C (GEM)          | 100                                  |                                                      |
| Half-life in substrate (d) at 20°C (GEM)                     | 1000 (default)****                   |                                                      |
| Half-life in greenhouse air (d) at 20°C (GEM)                | 100                                  |                                                      |
| Molar activation energy (kJ mol <sup>-1</sup> ) (GEM)        | 45                                   |                                                      |
| Liquid exchange coefficient (m/d) (TOXSWA)                   | 1.42                                 |                                                      |
| Gas exchange coefficient (m/d) (TOXSWA)                      | 135.9                                |                                                      |
| Diffusion coefficient in water (mm <sup>2</sup> /d) (TOXSWA) | 40 (default)                         |                                                      |
| Wash-off factor (m <sup>-1</sup> ) (GEM)                     | 0.0001                               |                                                      |
| canopy process option (GEM)                                  | lumped                               |                                                      |
| Half-life on crop canopy (d) (GEM)                           | 10 (soilless) / 1000000 (soil bound) |                                                      |
| Coefficient for uptake by plant (TSCF) (-) (GEM)             | 0                                    |                                                      |

\* The default input value for activation energy in TOXSWA-NL is 55000 J/mol, but the effect of the parameter on the outcome is negligible.

\*\* As  $k_{oc} > 2000$  L/kg, a DT<sub>50</sub> of 1000d is used for the water compartment.

\*\*\*Median of 40-90, EU Agreed.

\*\*\*\* 1000 days are used as conservative value. In case no specific information is available it is suggested to use the DegT50 for degradation in soil which would be 28.3 d.

## Field uses

The model used for the field uses is TOXSWA v.1.2. Only the spring scenario is simulated, as this is considered worst case.

WUR Drift Calculator: When considering DRT75 and the default crop free zone, the established crop scenario results in the highest drift percentages. As this is considered worst case only the established crop scenario is taken into account for this re-assessment.

**Table 8.9-2: Crops grouped according to use rate, drift, loading and resulting PEC<sub>sw</sub> values, relevant for the WUR Drift Calculator**

| Crop                                                                                                                                                                                                                                                                                        | Use rate                 | Drift (%) <sup>*</sup> | Loading  | PEC <sub>sw</sub> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------------|----------|-------------------|
| Strawberry (12)                                                                                                                                                                                                                                                                             | 1 x 3 g a.s./ha          | 0.59 <sup>a)</sup>     | 1.77E-06 | 0.0003813         |
| Caraway (8), rape (10), poppy seed/<br>mustard/ evening primrose/ gold-of-<br>pleasure (33)                                                                                                                                                                                                 | 1 x 5 g a.s./ha          | 0.87 <sup>b)</sup>     | 4.35E-06 | 0.0009994         |
| Ornamental crop (56)                                                                                                                                                                                                                                                                        | 2 (7d) x 5 g a.s./ha     | 1.2 <sup>c)</sup>      | 6.00E-06 | 0.002767          |
| Buckwheat (37)                                                                                                                                                                                                                                                                              | 2 (14d) x 5 g a.s./ha    | 0.87 <sup>b)</sup>     | 4.35E-06 | 0.001846          |
| Potato (2, 3)                                                                                                                                                                                                                                                                               | 3 (14d) x 5 g a.s./ha    | 0.59 <sup>a)</sup>     | 2.95E-06 | 0.001535          |
| Medicinal herbs (53)                                                                                                                                                                                                                                                                        | 2 (7d) x 6.25 g a.s./ha  | 0.87 <sup>b)</sup>     | 5.44E-06 | 0.002493          |
| Cereals (6), teff (11), grass seed crop<br>(32), quinoa (39), Jerusalem<br>artichoke (50), medicinal root crops<br>(55)                                                                                                                                                                     | 2 (14d) x 6.25 g a.s./ha | 0.87 <sup>b)</sup>     | 5.44E-06 | 0.002341          |
| Potato (1), beet (5), pulses (7),<br>flax/linseed (9), legume vegetables<br>(16), asparagus (25), lupin/ broad<br>bean (31), fiber crops (34), sorghum/<br>millet (38), courgetti (46)                                                                                                      | 1 x 7.5 g a.s./ha        | 1.2 <sup>c)</sup>      | 9.00E-06 | 0.002178          |
| Kohlrabi (21), radishes (22), turnip<br>cabbage/ swede (23), bulb vegetables<br>(24, 52), leek (26), witloof chicory<br>(roots) (35), large-rooted chicory<br>(36), root vegetables (without carrot)<br>(49), Japanese artichoke/ red beet/<br>celeriac/ black salsify, horseradish<br>(51) | 2 (14d) x 7.5 g a.s./ha  | 0.87 <sup>b)</sup>     | 6.53E-06 | <b>0.002843</b>   |
| Potato (4)                                                                                                                                                                                                                                                                                  | 1 x 10 g a.s.            | 0.59 <sup>a)</sup>     | 5.90E-06 | 0.001385          |

\* Please note that grouping of GAP/crop is done based on use rate, after this the maximum drift was determined based on % applied dosage. Which means that the drift is not necessary in correspondence with all the crops for each use rate but is reflecting the worst-case possible drift from the grouped use pattern.

<sup>a)</sup> Drift of 0.59% corresponds to DRT75; last nozzle position of +12.5 cm; crop free zone (cfz) of 150 cm; crop stage (< or > 20cm) of > 20 cm established crop

<sup>b)</sup> Drift of 0.87% corresponds to DRT75; last nozzle position of -25 cm; crop free zone (cfz) of 50 cm; crop stage (< or > 20cm) of > 20 cm established crop

<sup>c)</sup> Drift of 1.2% corresponds to DRT75; last nozzle position of +12.5 cm; crop free zone (cfz) of 50 cm; crop stage (< or > 20cm) of > 20 cm established crop

The assessment for small fruits is based on drift values as included in the Dutch Evaluation Manual for the Authorisation of Plant protection products and Biocides according to Regulation (EC) No 1107/2009, NL part, Plant protection products, Chapter 5 Fate and behaviour in the environment; behaviour in surface water and sediment, version 2.8: January 2025.

Based on results in the NL addendum of the 1<sup>st</sup> authorization (15889N; 20130956 NLTG; 30 August 2019) the drift value of 1.7% was used as starting point.

**Table 8.9-3: Crop scenarios, drift, loading and resulting PEC<sub>sw</sub> values, relevant for small fruits (except strawberry)**

| Crop                                                                               | Scenario                | Drift (%)         | Loading  | PEC <sub>sw</sub> |
|------------------------------------------------------------------------------------|-------------------------|-------------------|----------|-------------------|
| Berries, grapes, blackberry and raspberry family (Rubus spp.) (14, 15, 40, 41, 42) | 2 (14d) x 5.9 g a.s./ha | 1.7 <sup>a)</sup> | 1.00E-05 | <b>0.004471</b>   |
| Berries, grapes, blackberry and raspberry family (Rubus spp.) (14, 15, 40, 41, 42) | 2 (14d) x 5.9 g a.s./ha | 1.2 <sup>b)</sup> | 7.08E-06 | <b>0.003098</b>   |

<sup>a)</sup> Drift of 1.7% corresponds to DRT75 + crop free zone (cfz) of 4.5 m (Table 2a of the Dutch evaluation manual (Version 2.8, January 2025))

<sup>b)</sup> Arithmetically determined maximum possible drift value

Resulting PEC values serve as input for the ecotoxicological risk assessment.

### Greenhouse uses

The model GEM v3.3.2 is used for the re-assessment of greenhouse uses. Both soilless and soil-bound scenarios were considered.

#### Soilless

A worst-case use per underlying scenario will be identified. For the soilless cultivated crops there are four underlying scenarios (sweet pepper, tomato, rose and ficus). All crops are simulated the 15<sup>th</sup> of January, February and March to identify the worst-case use within each underlying scenario. For the underlying scenario forrose, December was added, and for ficus April was added, due to PEC<sub>sw</sub> values.

**Table 8.9-4: GEM PEC<sub>sw</sub> results for deltamethrin**

| Crop                                                                                        | Scenario                       | Underlying scenario | 50 <sup>th</sup> percentile PEC <sub>sw</sub> of 7 annual peak concentrations [µg/L] |          |                 |          |     |
|---------------------------------------------------------------------------------------------|--------------------------------|---------------------|--------------------------------------------------------------------------------------|----------|-----------------|----------|-----|
|                                                                                             |                                |                     | 0% end-of-pipe mitigation                                                            |          |                 |          |     |
|                                                                                             |                                |                     | Dec                                                                                  | Jan      | Feb             | Mar      | Apr |
| Strawberry (13)                                                                             | <b>2 (14d) x 5.0 g a.s./ha</b> | Sweet pepper        | -                                                                                    | 5.00E-06 | 8.00E-06        | 7.00E-06 | -   |
| Melon (18), Pumpkin, watermelon (45), gherkin (17), (Surrogate crop in GEM is sweet pepper) | 3 (7) x 17.5 g a.s./ha         |                     | Covered by use 20                                                                    |          |                 |          |     |
| Sweet pepper (20)                                                                           | <b>3 (7) x 17.5 g a.s./ha</b>  |                     | -                                                                                    | 1.90E-05 | <b>2.90E-05</b> | 2.70E-05 | -   |
| Plant breeding and basic seed production (57) (Surrogate crop in GEM is sweet pepper)       | 2 (7) x 12.5 g a.s./ha         |                     | Covered by use 20                                                                    |          |                 |          |     |

|                                                                                 |                           |        |                   |          |          |          |         |
|---------------------------------------------------------------------------------|---------------------------|--------|-------------------|----------|----------|----------|---------|
| Courgette (17)                                                                  | 3 (7) x 17.5 g<br>a.s./ha | Tomato | -                 | 9.00E-06 | 1.60E-05 | 1.30E-05 | -       |
| Cucumber (17)                                                                   | 3 (7) x 17.5 g<br>a.s./ha |        | -                 | 9.00E-06 | 1.60E-05 | 1.30E-05 | -       |
| Aubergine (19)                                                                  | 3 (7) x 17.5 g<br>a.s./ha |        | -                 | 9.00E-06 | 1.50E-05 | 1.20E-05 | -       |
| Tomato, husk tomato (47)                                                        | 3 (7) x 12.5 g<br>a.s./ha |        | -                 | 6.00E-06 | 1.10E-05 | 1.0E-05  | -       |
|                                                                                 |                           |        |                   |          |          |          |         |
| Flower bulb and flower tuber crops (28)<br>(modelling crop winter bulbs)        | 3 (7) x 12.5 g<br>a.s./ha | Rose   | 1.90E-05          | 2.30E-05 | 3.00E-05 | 2.50E-05 | -       |
| Floriculture crops (29), flower seed crops (58)<br>(modelling crop: cut flower) | 3 (7) x 12.5 g<br>a.s./ha |        | 3.70E-05          | 4.60E-05 | 5.60E-05 | 4.80E-05 | -       |
| Lamb’s lettuce and rucola (43), small radish (48)<br>(modelling crop: lettuce)  | 2 (7) x 12.5 g<br>a.s./ha |        | 9.00E-06          | 1.30E-05 | 1.90E-05 | 1.60E-05 | -       |
| Vegetable sprouts, baby leaves (44)<br>(modelling crop: water cress)            | 2 (7) x 12.5 g<br>a.s./ha |        | 9.30E-05          | 9.40E-05 | 9.10E-05 | 7.60E-05 | -       |
|                                                                                 |                           |        |                   |          |          |          |         |
| Tree nursery (30)<br>(Surrogate crop in GEM is pot plants)                      | 3 (7) x 3.75 g<br>a.s./ha | Ficus  | Covered by use 29 |          |          |          |         |
| Herbs (54)<br>(modelling crop heartsease)                                       | 2 (7) x 12.5 g<br>a.s./ha |        | -                 | 4.0E-06  | 5.0E-06  | 6.0E-06  | 5.0E-06 |
| Floriculture crops (29)<br>(modelling crop: pot plants)                         | 3 (7) x 12.5 g<br>a.s./ha |        | -                 | 7.0E-06  | 8.0E-06  | 7.0E-06  | 7.0E-06 |
| Perennial crops (29)<br>(Surrogate crop in GEM is not plants)                   |                           |        |                   |          |          |          |         |

In **bold** the worst case PEC<sub>sw</sub> value from each underlying scenario.

For the underlying scenario sweet pepper, the simulation for crop sweet pepper resulted in the worst-case use. Therefore, sweet pepper is simulated for all months below.

For the underlying scenario tomato, the simulation for crop cucumber/courgette resulted in the worst-case use. Therefore, courgette is simulated for all months below.

For the underlying scenario rose, the simulation for crop water cress resulted in the worst-case use. Therefore, water cress is simulated for all months below.

For the underlying scenario figus, the simulations for pot plants resulted in the worst-case use. The scenario pot plants is simulated for all months below.

The identification of worst-case uses, resulting in a limitation of GEM simulations, is considered justified for the active substance deltamethrin. As due to the substance parameters the PEC<sub>sw</sub> values are extremely low. Even with 0% end-of-pipe mitigation an acceptable risk will be achieved. Furthermore, it is considered acceptable to limit the number of simulations for the crops sprouts/baby leaves, flower bulbs, floricultural crops, herbs to only one of the crops in GEM. It was chosen to simulate water cress, winter bulbs, cut flowers and heartsease, as based on experience from the past these crops results in the highest PEC<sub>sw</sub> values. It is not expected that calculations for other crops will result in unacceptable PEC<sub>sw</sub> values.

**Table 8.9-5: GEM PEC<sub>sw</sub> results for deltamethrin (Sweet pepper scenario, modelling crop sweet pepper, covering use 13, 17, 18, 20, 45, 57, 3×17.5 g a.s./ha, 7 d app. interval)**

| Application date                  | 50 <sup>th</sup> percentile PEC <sub>sw</sub> of 7 annual peak concentrations [µg/L] |                                |
|-----------------------------------|--------------------------------------------------------------------------------------|--------------------------------|
|                                   | deltamethrin                                                                         |                                |
|                                   | 0%<br>end-of-pipe mitigation                                                         | 95%<br>end-of-pipe mitigation* |
| No reuse of filter cleaning water |                                                                                      |                                |
| 15 <sup>th</sup> Jan              | 1.90E-05                                                                             | 9.50E-07                       |
| 8 <sup>th</sup> Feb               | 2.90E-05                                                                             | 1.45E-06                       |
| 15 <sup>th</sup> Feb              | <b>2.90E-05</b>                                                                      | <b>1.45E-06</b>                |
| 22 <sup>nd</sup> Feb              | 2.70E-05                                                                             | 1.35E-06                       |
| 15 <sup>th</sup> Mar              | 2.70E-05                                                                             | 1.35E-06                       |
| 15 <sup>th</sup> Apr              | 1.60E-05                                                                             | 8.00E-07                       |
| 15 <sup>th</sup> May              | 1.30E-05                                                                             | 6.50E-07                       |
| 15 <sup>th</sup> Jun              | 3.00E-06                                                                             | 1.50E-07                       |
| 15 <sup>th</sup> Jul              | 1.00E-06                                                                             | 5.00E-08                       |
| 15 <sup>th</sup> Aug              | 1.00E-06                                                                             | 5.00E-08                       |
| 15 <sup>th</sup> Sep              | 4.00E-06                                                                             | 2.00E-07                       |
| 15 <sup>th</sup> Oct              | 6.00E-06                                                                             | 3.00E-07                       |
| 15 <sup>th</sup> Nov              | 4.00E-06                                                                             | 2.00E-07                       |
| 15 <sup>th</sup> Dec              | 1.00E-05                                                                             | 5.00E-07                       |

\*Determined arithmetically from results 0% end-of-pipe reduction.

**Table 8.9-6: GEM PEC<sub>sw</sub> results for deltamethrin (Tomato scenario, modelling crop courgette, covering use 17, 19, 47, 3×17.5 g a.s./ha, 7 d app. interval)**

| Application date                  | 50 <sup>th</sup> percentile PEC <sub>sw</sub> of 7 annual peak concentrations [µg/L] |                                |
|-----------------------------------|--------------------------------------------------------------------------------------|--------------------------------|
|                                   | deltamethrin                                                                         |                                |
|                                   | 0%<br>end-of-pipe mitigation                                                         | 95%<br>end-of-pipe mitigation* |
| No reuse of filter cleaning water |                                                                                      |                                |
| 15 <sup>th</sup> Jan              | 9.00E-06                                                                             | 4.50E-07                       |
| 8 <sup>th</sup> Feb               | 1.60E-05                                                                             | 8.00E-07                       |
| 15 <sup>th</sup> Feb              | <b>1.60E-05</b>                                                                      | <b>8.00E-07</b>                |
| 22 <sup>nd</sup> Feb              | 1.50E-05                                                                             | 7.50E-07                       |
| 15 <sup>th</sup> Mar              | 1.30E-05                                                                             | 6.50E-07                       |
| 15 <sup>th</sup> Apr              | 6.00E-06                                                                             | 3.00E-07                       |
| 15 <sup>th</sup> May              | 3.00E-06                                                                             | 1.50E-07                       |
| 15 <sup>th</sup> Jun              | 1.00E-06                                                                             | 5.00E-08                       |
| 15 <sup>th</sup> Jul              | 1.00E-06                                                                             | 5.00E-08                       |
| 15 <sup>th</sup> Aug              | 1.00E-06                                                                             | 5.00E-08                       |
| 15 <sup>th</sup> Sep              | 1.00E-06                                                                             | 5.00E-08                       |
| 15 <sup>th</sup> Oct              | 3.00E-06                                                                             | 1.50E-07                       |
| 15 <sup>th</sup> Nov              | 4.00E-06                                                                             | 2.00E-07                       |
| 15 <sup>th</sup> Dec              | 5.00E-06                                                                             | 2.50E-07                       |

\*Determined arithmetically from results 0% end-of-pipe reduction.

**Table 8.9-7: GEM PEC<sub>sw</sub> results for deltamethrin (Rose scenario, modelling crop water cress, covering use 28, 29, 43, 44, 48, 58, 2×12.5 g a.s./ha, 7 d app. interval)**

| Application date                  | 50 <sup>th</sup> percentile PEC <sub>sw</sub> of 7 annual peak concentrations [µg/L] |                                |
|-----------------------------------|--------------------------------------------------------------------------------------|--------------------------------|
|                                   | deltamethrin                                                                         |                                |
|                                   | 0%<br>end-of-pipe mitigation                                                         | 95%<br>end-of-pipe mitigation* |
| No reuse of filter cleaning water |                                                                                      |                                |
| 8 <sup>th</sup> Jan               | <b>9.50E-05</b>                                                                      | <b>4.75E-06</b>                |
| 15 <sup>th</sup> Jan              | 9.40E-05                                                                             | 4.70E-06                       |
| 22 <sup>nd</sup> Jan              | 9.20E-05                                                                             | 4.60E-06                       |
| 15 <sup>th</sup> Feb              | 9.10E-05                                                                             | 4.55E-06                       |
| 15 <sup>th</sup> Mar              | 7.60E-05                                                                             | 3.80E-06                       |
| 15 <sup>th</sup> Apr              | 5.80E-05                                                                             | 2.90E-06                       |
| 15 <sup>th</sup> May              | 4.20E-05                                                                             | 2.10E-06                       |
| 15 <sup>th</sup> Jun              | 2.50E-05                                                                             | 1.25E-06                       |
| 15 <sup>th</sup> Jul              | 3.10E-05                                                                             | 1.55E-06                       |
| 15 <sup>th</sup> Aug              | 4.30E-05                                                                             | 2.15E-06                       |
| 15 <sup>th</sup> Sep              | 5.60E-05                                                                             | 2.80E-06                       |
| 15 <sup>th</sup> Oct              | 7.10E-05                                                                             | 3.55E-06                       |
| 15 <sup>th</sup> Nov              | 8.20E-05                                                                             | 4.10E-06                       |
| 15 <sup>th</sup> Dec              | 9.30E-05                                                                             | 4.65E-06                       |

\*Determined arithmetically from results 0% end-of-pipe reduction.

**Table 8.9-8: GEM PEC<sub>sw</sub> results for deltamethrin (Ficus scenario, modelling crop pot plants, covering use 29, 30, 54, 3×12.5 g a.s./ha, 7 d app. interval)**

| Application date                  | 50 <sup>th</sup> percentile PEC <sub>sw</sub> of 7 annual peak concentrations [µg/L] |                                |
|-----------------------------------|--------------------------------------------------------------------------------------|--------------------------------|
|                                   | deltamethrin                                                                         |                                |
|                                   | 0%<br>end-of-pipe mitigation                                                         | 95%<br>end-of-pipe mitigation* |
| No reuse of filter cleaning water |                                                                                      |                                |
| 15 <sup>th</sup> Jan              | 7.00E-06                                                                             | 3.50E-07                       |
| 8 <sup>th</sup> Feb               | 8.00E-06                                                                             | 4.00E-07                       |
| 15 <sup>th</sup> Feb              | <b>8.00E-06</b>                                                                      | <b>4.00E-07</b>                |
| 22 <sup>nd</sup> Feb              | 8.00E-06                                                                             | 4.00E-07                       |
| 15 <sup>th</sup> Mar              | 7.00E-06                                                                             | 3.50E-07                       |
| 15 <sup>th</sup> Apr              | 7.00E-06                                                                             | 3.50E-07                       |
| 15 <sup>th</sup> May              | 5.00E-06                                                                             | 2.50E-07                       |
| 15 <sup>th</sup> Jun              | 3.00E-06                                                                             | 1.50E-07                       |
| 15 <sup>th</sup> Jul              | 3.00E-06                                                                             | 1.50E-07                       |
| 15 <sup>th</sup> Aug              | 3.00E-06                                                                             | 1.50E-07                       |
| 15 <sup>th</sup> Sep              | 3.00E-06                                                                             | 1.50E-07                       |
| 15 <sup>th</sup> Oct              | 4.00E-06                                                                             | 2.00E-07                       |
| 15 <sup>th</sup> Nov              | 5.00E-06                                                                             | 2.50E-07                       |
| 15 <sup>th</sup> Dec              | 6.00E-06                                                                             | 3.00E-07                       |

\*Determined arithmetically from results 0% end-of-pipe reduction.

Resulting PEC values serve as input for the ecotoxicological risk assessment.

#### *Soil bound*

The soil bound assessment in GEM is not crop dependent. Therefore, for soil bound cultivations one simulation is performed for 3×17.5 g a.s./ha, 7 d app. Interval. Absolute application dates are: 16 May, 23 May and 30 May. An additional safety factor of 2 is included. Results are based on 0% end-of-pipe mitigation.

**Table 8.9-9: GEM PEC<sub>sw</sub> results for deltamethrin (Chrysanthemum (gherkin), 3×17.5 g a.s./ha, 0% interception, 7 d app. interval)**

| Application dates                                               | 90 <sup>th</sup> percentile PEC <sub>sw</sub> of 7 annual peak concentrations [µg/L] |                       |
|-----------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------|
|                                                                 | deltamethrin                                                                         |                       |
|                                                                 | PEC <sub>sw</sub>                                                                    | PEC <sub>sw</sub> x 2 |
| 16 <sup>th</sup> , 23 <sup>rd</sup> and 30 <sup>th</sup> of May | <1.00E-06                                                                            | <2.00E-06             |

Resulting PEC values serve as input for the ecotoxicological risk assessment.

#### Mushrooms

On the label as received by Ctgb the crop Mushroom is also indicated for re-evaluation. However, Bayer is of the opinion that the cultivation of Mushroom is outside the scope of this re-evaluation. Mushroom cultivation takes place indoor. None of the exceedances as evaluated as part of the emission reduction plan (ERP) submitted to the Ministry in 2025 were connected to indoor mushroom cultivation. It is considered that the cultivation of mushroom is not the cause of exceedances in surface water and therefore no re-assessment is provided in this NLWG application. The ERP is available upon request.

### 8.9.2.1 $PEC_{sw/sed}$ of formulation

$PEC_{sw/sed}$  values for the formulation are covered by the values for the active substances.

### 8.9.3 Additional data

#### 8.9.3.1 Monitoring data groundwater

This section is outside the scope of the re-evaluation. Please refer to the national assessment of the original authorisation (15889N; 20130956 NLTG; 30 August 2019 & 20191546 NLKUG; 04 June 2021).

#### 8.9.3.2 Monitoring data surface water

Data from the Pesticide Atlas are used to evaluate potential exceedances of the authorisation threshold and environmental quality standards (MKN in Dutch, data source <http://www.rivm.nl/rvs/Normen>). These environmental quality standards consist either of the harmonised WFD thresholds derived according to the Fraunhofer methodology<sup>1</sup> (AA-EQS and MAC-EQS) or of an MPC value (which is usually derived on the basis of outdated guidance). The Pesticide Atlas includes a statistical correlation analysis between concentrations, threshold exceedance and land use, which may indicate probable relationships.

#### Deltamethrin

The active substance deltamethrin was observed in the surface water (most recent data from 2023). In Table 8.9-10 the number of observations in the surface water are presented.

The authorisation threshold equals 0.0032 µg a.s./L (consisting of EAC mesocosm).

The relevant EQS for deltamethrin are the AA-EQS threshold equal to 3.1E-6 µg/L, and the MAC-EQS threshold equal to 3.1E-4 µg/L.

**Table 8.9-10: Monitoring data in Dutch surface water for deltamethrin (from [www.pesticidesatlas.nl](http://www.pesticidesatlas.nl), version 3)**

| Year | Total no of locations | Total no of measurements | $n >$ authorisation threshold                           | $n >$ EQS                             |                                       |                         |
|------|-----------------------|--------------------------|---------------------------------------------------------|---------------------------------------|---------------------------------------|-------------------------|
|      |                       |                          |                                                         | MAC-EQS                               | AA-EQS                                | MPC (ad-hoc/indicative) |
| 2023 | 460                   | 3468                     | 345 (not testable)<br>1 > threshold<br>3 > 5x threshold | 455 (not testable)<br>5 > 5xtreshold  | 455 (not testable)<br>5 > 5xtreshold  | n.r.*                   |
| 2022 | 532                   | 3840                     | 402 (not testable)<br>6 > threshold<br>3 > 5x threshold | 519 (not testable)<br>13 > 5xtreshold | 519 (not testable)<br>13 > 5xtreshold | n.r.*                   |

<sup>1</sup> 5.1.2.e and 5.1.2.e Guidance for the derivation of environmental risk limits within the framework of 'International and national environmental quality standards for substances in the Netherlands' (INS). Revision 2007'. RIVM report 601782001.

| Year | Total no of locations | Total no of measurements | <i>n</i> > authorisation threshold                      |                                         | <i>n</i> > EQS                          |       |
|------|-----------------------|--------------------------|---------------------------------------------------------|-----------------------------------------|-----------------------------------------|-------|
| 2021 | 543                   | 3941                     | 416 (not testable)<br>1 > threshold<br>6 > 5x threshold | 536 (not testable)<br>7 ><br>5xtreshold | 536 (not testable)<br>7 ><br>5xtreshold | n.r.* |

\* n.r. not relevant

The exceedance of the WFD water quality standards AA-EQS and MAC-EQS (and MPC in case no EQS have been derived), is from 2016 onwards addressed by the ERP (Emission Reduction Plan), which is carried out under responsibility of the Ministry of Infrastructure and Environment (I&M). Ctgb has no active role in this process. The outcome of the ERP may lead to label changes on request of the applicant.

In 2025, Bayer provided an ERP to the Ministry, addressing deltamethrin exceedances in the period of 2021 – 2023. As was concluded in the ERP, the current registered uses are not deemed responsible for the prevalence of exceedances. A large number of exceedances are seen in areas with greenhouse ornamentals. However, recent purification studies show that purification of deltamethrin in greenhouses is achieved at >99%. Since highly efficient purification of deltamethrin in greenhouses has been achieved, the exceedances appear to be caused by leakages and poor management practices and incidents (e.g. improper handling of plants and other waste (substrates, plastics) during crop rotation, damage to sewage systems during greenhouse cleaning, etc.).

Deltamethrin is also widely used in other industries including biocidal use, veterinary use, and non-professional use. These uses may explain the exceedances noted in areas such as grasslands, residential and industrial areas where deltamethrin is not used as a crop protection product.

However, Ctgb is the responsible authority to address exceedance of the authorisation threshold.

Several locations show an exceedance of the authorisation threshold. Therefore, it is assessed whether there is a correlation between the observed exceedances and land use types. For the substance deltamethrin several measurements are indicated as “niet aangetroffen, boven de norm (niet toetsbaar)”, therefore in accordance with the Ctgb evaluation manual (Chapter 5, NL Part, V. 2.8 – January 2025), it is not only assessed whether there is a correlation between the observed exceedances and land use types, but it is also assessed whether there is a correlation between the concentration and land use. The correlation analysis as included in the Pesticide Atlas uses a progressive three-year period to assess whether there is a relation. The last three available years, in this case 2021-2023 are used to establish the relation.

**Table 8.9-11: Correlation of concentration and exceedances per substance – land use**

| Year      | Correlation: concentration per substance – land use                                                                                                                                             | Correlation: exceedances per substance – land use                           |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| 2021-2023 | Potato, beet, cereals, other crops, pulses, green manure, fiber crop – very strong significance<br><br>Floristry, vegetable crops, commercial crop, asparagus, grass seed – strong significance | Greenhouse crops – significance present<br><br>All other crops: not present |

|  |                                                                                                                                                                                                                                           |  |
|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|  | <p>Onion, strawberry (and other small fruit), leek – significance present</p> <p>Tree nursery – significance just not present</p> <p>Mais, greenhouse crops, urban, leafy vegetables, flower bulbs, cabbage, grass land – not present</p> |  |
|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

The observed exceedance of the authorisation threshold is significantly correlated to greenhouse uses. Furthermore, there is a correlation between concentration and land use for several crops.

It cannot be excluded that the observed exceedance of the authorisation threshold or the correlation between concentration and land use is related to the indicated uses listed above. Therefore, an adequate risk assessment is needed to show that the observed exceedance of the authorisation threshold or the correlated uses regarding land use and concentration of deltamethrin measured in surface water is not related to the applied uses. Please refer to the risk assessment as presented in section B 8 and section B 9, when necessary, a label amendment is proposed by the applicant to achieve an acceptable risk.

### 8.9.3.3 Drinking water criterion

This section is outside the scope of the re-evaluation. However, the website from VEWIN was checked and deltamethrin is not included in the list with exceedances (data from 2019-2023).

The assessment methodology followed is developed by the WG implementation drinking water criterion and outlined in Alterra report 1635<sup>2</sup> and described in the Ctgb Evaluation Manual, NL part, Chapter 6 surface water.

Substances are categorized as new substances on the Dutch market (less than 3 years authorisation) or existing substances on the Dutch market (authorised for more than 3 years).

- For new substances, a pre-registration calculation is performed.
- For existing substances, the assessment is based on monitoring data of VEWIN (drinking water board).
  - o If for an existing substance based on monitoring data no problems are expected by VEWIN, Ctgb follows this VEWIN assessment.
  - o If for an existing substance based on monitoring data a potential problem is identified by VEWIN, Ctgb assesses whether the 90<sup>th</sup> percentile of the monitoring data meet the drinking water criterion at each individual drinking water abstraction point.

The list of problematic substances is updated yearly and presented on [www.vewin.nl/probleemstoffen](http://www.vewin.nl/probleemstoffen).

#### Deltamethrin

<sup>2</sup> Adriaanse et al. (2008). Development of an assessment methodology to evaluate agricultural use of plant protection products for drinking water production from surface waters - A proposal for the registration procedure in the Netherlands. Alterra-Report 1635

Deltamethrin has been on the Dutch market for > 3 years (authorised since 2009). This period is sufficiently large to consider the market share to be established. From the general scientific knowledge collected by the Ctgb about the product and its active substance, the Ctgb concludes that there are in this case no concrete indications for concern about the consequences of this product for surface water from which drinking water is produced, when used in compliance with the directions for use. The Ctgb does under this approach expect no exceeding of the drinking water criterion. The standards for surface water destined for the production of drinking water are met.

#### **8.10 Fate and behaviour in air (KCP 9.3, KCP 9.3.1)**

This section is outside the scope of the re-evaluation. Please refer to the core assessment of the original authorisation (15889N; 20130956 NLTG; 30 August 2019 & 20191546 NLKUG; 04 June 2021).

## Appendix 1   Lists of data considered in support of the evaluation

No new data submitted.

| Data point | Year | Title<br>Company Report No.<br>Source (where different from company) GLP or GEP status<br>Published or not | Vertebrate study<br>Y/N | Owner |
|------------|------|------------------------------------------------------------------------------------------------------------|-------------------------|-------|
|            |      |                                                                                                            |                         |       |
|            |      |                                                                                                            |                         |       |
|            |      |                                                                                                            |                         |       |
|            |      |                                                                                                            |                         |       |