| **REGISTRATION REPORT Part B**  **Section 8 Environmental Fate**  **Detailed summary of the risk assessment** |
| --- |
| Product code: ProductName  Active Substances:  ActiveSubstance1 XXX g/L  ActiveSubstance2 XXX g/L |
| **Country: Austria**  **Central Zone Zonal Rapporteur Member State: MS** |
| **NATIONAL ASSESSMENT** |
| Applicant: XX  **Date: XX** |

**Table of Contents**

Page:

[B 8 FATE AND BEHAVIOUR IN THE ENVIRONMENT (KCP 9) 3](#_Toc129784212)

[B 8.7 Predicted Environmental Concentrations in Soil (PECSOIL) (KCP 9.1.3) 3](#_Toc129784213)

[B 8.7.1 Active substances and metabolites 3](#_Toc129784214)

[B 8.7.2 Product 4](#_Toc129784215)

[B 8.8 Predicted Environmental Concentrations in Ground Water (PECGW) (KCP 9.2.4) 5](#_Toc129784216)

[B 8.9 Predicted Environmental Concentrations in Surface Water (PECSW) (KCP 9.2.5) 10](#_Toc129784217)

[B 8.9.1 Active substances and metabolites 10](#_Toc129784218)

[B 8.9.2 Product 27](#_Toc129784219)

[B 8.10 Predicted Environmental Concentrations in Air (PECAIR) (KCP 9.3, KCP 9.3.1) 28](#_Toc129784220)

[Appendix 1 List of data submitted in support of the evaluation 29](#_Toc129784221)

[Appendix 2 Table of intended uses 30](#_Toc129784222)

# FATE AND BEHAVIOUR IN THE ENVIRONMENT (KCP 9)

This is a national assessment for the product ProductName comprising ActiveSubstance1 (and ActiveSubstance2) as active substance(s). It is based on the respective core assessment for the Central Zone that has been evaluated beforehand in accordance with article 33/43 of Regulation (EC) No. 1107/2009 as part of the authorisation process. It includes national assumptions and essentials specifically required for Austria as laid out in the Austrian National Requirements. Summaries of the exposure risk assessment will be given within each section based on the risk envelope approach. PEC results are in line with the respective EU agreed list of endpoints unless stated otherwise.

Appendix 1 of this document contains the list of data submitted in support of the evaluation.  
Appendix 2 of this document presents the table of intended uses.

## Predicted Environmental Concentrations in Soil (PECSOIL) (KCP 9.1.3)

### Active substances and metabolites

PECSOIL values for ActiveSubstance1 and its metabolites, ActiveSubstance2 and its metabolites has/have been calculated in the core assessment according to the risk envelope approach, considering the worst-case application pattern of all proposed GAP uses as presented in table 8.7.1-1.

**Table 8.7.1‑1: Critical GAP of ProductName applied as application method to crop1, crop2 considered for the PECsoil calculations**

| **Crop** | **Earliest growth stage of crop for application (BBCH)** | **Maximum application rate per treatment**  **(g a.s./ha)**  **a) ActiveSubstance1**  **b) ActiveSubstance2** | **Appl. no.** | **Min. interval (days)** | **Crop interception pattern (%)** |
| --- | --- | --- | --- | --- | --- |
| crop1 | BBCH xx - xx | a) xxx  b) xxx | xxx | xxx | Xxx |
| crop2 | BBCH xx - xx | a) xxx  b) xxx | xxx | xxx | Xxx |

Input parameters of the active substances and their metabolites considered for PECsoil are given in table 8.7.1-2 and 8.7.1-3.

Table 8.7.1‑2: Input parameters of ActiveSubstance1 and metabolites for PECsoil calculation

| End-Point | ActiveSubstance1 | Met1A | Met1B | Met1C |
| --- | --- | --- | --- | --- |
| Molecular weight (g/mol) |  |  |  |  |
| DT50soil (d) |  |  |  |  |
| Maximum occurrence soil (%) | - |  |  |  |

Table 8.7.1‑3: Input parameters of ActiveSubstance2 and metabolites for PECsoil calculation

| End-Point | ActiveSubstance2 | Met2A | Met2B | Met2C |
| --- | --- | --- | --- | --- |
| Molecular weight (g/mol) |  |  |  |  |
| DT50soil (d) |  |  |  |  |
| Maximum occurrence soil (%) | - |  |  |  |

The maximum PECsoil values of ActiveSubstance1, ActiveSubstance2 and its/their metabolites are given in table 8.7.1-4 and table 8.7.1-5.

Table 8.7.1‑4: Maximum PECsoil values for ActiveSubstance1, ActiveSubstance2 and its/their metabolites for the application on crop1

| **Compound** | **Max. PECsoil (mg/kg)** | **XX d TWA PECsoil (mg/kg)** | **PECsoil incl. PECplateau**  **(mg/kg)** |
| --- | --- | --- | --- |
| ActiveSubstance1 |  |  |  |
| Met1A of ActiveSubstance1 |  |  |  |
| Met1B of ActiveSubstance1 |  |  |  |
| Met2C of ActiveSubstance1 |  |  |  |
| ActiveSubstance2 |  |  |  |
| Met2A of ActiveSubstance2 |  |  |  |
| Met2B of ActiveSubstance2 |  |  |  |
| Met2C of ActiveSubstance2 |  |  |  |

Table 8.7.1‑5: Maximum PECsoil values for ActiveSubstance1, ActiveSubstance2 and its/their metabolites for the application on crop2

| **Compound** | **Max. PECsoil (mg/kg)** | **XX d TWA PECsoil (mg/kg)** | **PECsoil incl. PECplateau**  **(mg/kg)** |
| --- | --- | --- | --- |
| ActiveSubstance1 |  |  |  |
| Met1A of ActiveSubstance1 |  |  |  |
| Met1B of ActiveSubstance1 |  |  |  |
| Met1C of ActiveSubstance1 |  |  |  |
| ActiveSubstance2 |  |  |  |
| Met2A of ActiveSubstance2 |  |  |  |
| Met2B of ActiveSubstance2 |  |  |  |
| Met2C of ActiveSubstance2 |  |  |  |

### Product

PECSOIL values for the product ProductName were calculated based on application rate of the product, the density of the product and the crop interception rate. For multiple applications, the total application rate of the product is used at once. The application pattern is presented in table 8.7.2-1.

Table 8.7.2‑1: Critical GAP of ProductName applied as application method to crop1 and crop2 considered for the PECsoil calculations

| **Crop** | **Earliest growth stage of crop for application (BBCH)** | **Maximum application rate per treatment**  **(kg product/ha)** | **Appl. no.** | **Min. interval (days)** | **Crop interception pattern (%)** | **Total amount product reaching soil**  **(kg product/ha)** |
| --- | --- | --- | --- | --- | --- | --- |
| crop1 | BBCH xx - xx | xxx\* | xxx | xxx | xxx | xxx |
| crop2 | BBCH xx - xx | xxx\* | xxx | xxx | xxx | xxx |

\* based on the density of the product of XXX kg/L

The maximum PECsoil values of the product are presented in table 8.7.2-2.

Table 8.7.2‑2: Maximum PECSOIL value for the product ProductName for the application on crop1, crop2

| **Compound** | **Crop** | **Max. PECsoil (mg/kg)** |
| --- | --- | --- |
| ProductName | crop1 |  |
| ProductName | crop2 |  |

## Predicted Environmental Concentrations in Ground Water (PECGW) (KCP 9.2.4)

The PECGW of ActiveSubstance1, ActiveSubstance2 and its/their metabolites have been calculated in the core assessment for the GAP given in table 8.8-1. The national exposure assessment was performed for the FOCUS groundwater scenarios Châteaudun, Hamburg, Kremsmünster, and Okehampton using the model FOCUS Pearl (v.X.X.X). (Please delete if necessary: To meet the Austrian requirements, “XX” was used as a surrogate crop to cover the scenario(s) “XX”.)

Table 8.8‑1: Critical GAP of ProductName applied as application method to crop1, crop2 considered for the PECGW calculations

| Use No. | 1 | 2 | 3 |
| --- | --- | --- | --- |
| **Crops in GAP** |  |  |  |
| FOCUSGW crop (surrogate crop) |  |  |  |
| Crop growth stage (BBCH) |  |  |  |
| Application rate(s) (g a.s./ha) a) ActiveSubstance1 b) ActiveSubstance2 |  |  |  |
| Number of applications/ interval (d) |  |  |  |
| *delete not relevant part* Relative application date/ absolute application date |  |  |  |
| Crop interception (%) |  |  |  |
| Amount reaching the soil surface (g a.s./ha) |  |  |  |
| Total yearly soil load (g a.s./ha) |  |  |  |
| Frequency of application |  |  |  |
| Models used for calculation |  |  |  |

Input parameter of the active substances and its/their metabolites considered for PECGW are given in tables 8.8-2 and 8.8-3.

Table 8.8‑2: Input parameters of ActiveSubstance1 and metabolites for PECGW calculation

| End-Point | ActiveSubstance1 | Met1A | Met1B | Met3C |
| --- | --- | --- | --- | --- |
| Molecular weight (g/mol) |  |  |  |  |
| Water solubility (mg/L) at 20°C, pH 7 |  |  |  |  |
| Vapour pressure at 20°C (Pa) |  |  |  |  |
| DT50 soil (d) |  |  |  |  |
| Koc/KfOC (mL/g) |  |  |  |  |
| Kom/KfOM (mL/g) |  |  |  |  |
| 1/n |  |  |  |  |
| Formation fraction |  |  |  |  |
| Plant uptake factor |  |  |  |  |
| Q10 |  |  |  |  |

Table 8.8‑3: Input parameters of ActiveSubstance2 and metabolites for PECGW calculation

| End-Point | ActiveSubstance2 | Met2A | Met2B | Met2C |
| --- | --- | --- | --- | --- |
| Molecular weight (g/mol) |  |  |  |  |
| Water solubility (mg/L) at 20°C, pH 7 |  |  |  |  |
| Vapour pressure at 20°C (Pa) |  |  |  |  |
| DT50 soil (d) |  |  |  |  |
| Koc/KfOC (mL/g) |  |  |  |  |
| Kom/KfOM (mL/g) |  |  |  |  |
| 1/n |  |  |  |  |
| Formation fraction |  |  |  |  |
| Plant uptake factor |  |  |  |  |
| Q10 |  |  |  |  |

Application timings were selected according to the intended use patterns. The application schemes are presented in table 8.8-4 or 5.

Table 8.8‑4: Application schemes for FOCUS groundwater simulations based on relative application dates

| Scenario | Crop event | Application type | Period before or after the event (days) | Dosage  (kg ha-1) | Interception  (%) |
| --- | --- | --- | --- | --- | --- |
| Châteaudun |  |  |  |  |  |
| Hamburg |  |  |  |  |  |
| Kremsmünster |  |  |  |  |  |
| Okehampton |  |  |  |  |  |

OR

Table 8.8‑5: Application schemes for FOCUS groundwater simulations based on absolute application dates

| Scenario | Application type | Date  (dd/mm/yyy) | Dosage  (kg ha-1) | Interception  (%) |
| --- | --- | --- | --- | --- |
| Châteaudun | xxx | Appl. 1: dd/mm/yyy  Appl. 2: dd/mm/yyy | xxx  xxx | xx  xx |
| Hamburg | xxx | Appl. 1: dd/mm/yyy  Appl. 2: dd/mm/yyy | xxx  xxx | xx  xx |
| Kremsmünster | xxx | Appl. 1: dd/mm/yyy  Appl. 2: dd/mm/yyy | xxx  xxx | xx  xx |
| Okehampton | xxx | Appl. 1: dd/mm/yyy  Appl. 2: dd/mm/yyy | xxx  xxx | xx  xx |

The respective PECGW values for ActiveSubstance1, ActiveSubstance2 and its/their metabolites are given in Table 8.8‑6 and

Table 8.8‑7.

Table 8.8‑6: PECGW for ActiveSubstance1 and its metabolites (80th Percentile PECGW at 1m Soil Depth (µg/L))

| **Crop** | **Scenario** | ActiveSubstance1 | Met1A | Met1B | Met1C |
| --- | --- | --- | --- | --- | --- |
| crop1 | Châteaudun |  |  |  |  |
|  | Hamburg |  |  |  |  |
|  | Kremsmünster |  |  |  |  |
|  | Okehampton |  |  |  |  |
| crop2 | Châteaudun |  |  |  |  |
|  | Hamburg |  |  |  |  |
|  | Kremsmünster |  |  |  |  |
|  | Okehampton |  |  |  |  |

Table 8.8‑7: PECGW (µg/L) for ActiveSubstance2 and its metabolites (80th Percentile PECGW at 1m Soil Depth (µg/L))

| **Crop** | **Scenario** | ActiveSubstance2 | Met1A | Met1B | Met1C |
| --- | --- | --- | --- | --- | --- |
| crop1 | Châteaudun |  |  |  |  |
|  | Hamburg |  |  |  |  |
|  | Kremsmünster |  |  |  |  |
|  | Okehampton |  |  |  |  |
| crop2 | Châteaudun |  |  |  |  |
|  | Hamburg |  |  |  |  |
|  | Kremsmünster |  |  |  |  |
|  | Okehampton |  |  |  |  |

(Please select correct phrase and delete the rest:)

The PECGW for ActiveSubstance1, ActiveSubstance2 and its/their metabolites are below the regulatory threshold of 0.1 µg/L.

OR:

PECgw values above the threshold value of 0.1 µg/L were found for metabolite x in the amount of x.x µg/L. Thus, a relevance assessment for this/these metabolite(s) is/are required (see section B 10).

## Predicted Environmental Concentrations in Surface Water (PECSW) (KCP 9.2.5)

### Active substances and metabolites

PECSW and PECSED model simulations have been conducted for ActiveSubstance1, ActiveSubstance2 and its/their metabolites for the envisaged GAP according to FOCUS requirements. These include STEPs 1-2 in FOCUS (v.X.X) and FOCUS SWASH X.X, the FOCUS drift calculator, the drainage model FOCUS MACRO (v.X.X.X), the run-off model FOCUS PRZM (v.X.X.X) and the model FOCUS TOXSWA (v.X.X.X). Surface water modelling scenarios required for Austria according to the Austrian National Requirements include the FOCUS surface water scenarios D4 Skousbo, R1 Weiherbach, and R3 Bologna.( *delete if not necessary*: “XX” was used as surrogate crop for the scenario XX to cover the FOCUS crop XX.) The GAP with relevant application parameters, for which PECSW and PECSED modelling was performed, are presented in table 8.9.1-1.

Table 8.9.1‑1 Critical GAP of ProductName applied as application method to crop1, crop2 considered for the PECSW/SED calculations

| Use No. | 1 | 2 | 3 |
| --- | --- | --- | --- |
| Crop |  |  |  |
| Growth stage | BBCH | BBCH | BBCH |
| Application rate (kg as/ha) | ActiveSubstance1: XXX g/ha  Active Substance2: XXX g/ha | ActiveSubstance1: XXX g/ha  Active Substance2: XXX g/ha | ActiveSubstance1: XXX g/ha  Active Substance2: XXX g/ha |
| Number of applications/interval (d) | 1/- | 1/- | 1/- |
| Application window (relevant for STEP 1 and 2 only) | e.g., Mar-May |  |  |
| Application method | e.g., Ground spray |  |  |
| CAM (Chemical application method) | e.g. 4 | e.g. 4 | e.g. 4 |
| Soil depth (cm) |  |  |  |
| Crop interception (Step 2) | e.g., Minimal cover |  |  |

Input parameter of the active substances and their metabolites considered for PECSW are given in table 8.9.1-2 and 8.9.1-3.

Table 8.9.1‑2 Input parameters of ActiveSubstance1 and its metabolites for PECSW calculation

| End-Point | ActiveSubstance1 | Met1A | Met1B | Met1C |
| --- | --- | --- | --- | --- |
| Molecular weight (g/mol) |  |  |  |  |
| Water solubility (mg/L) at 20 °C, pH 7 |  |  |  |  |
| Vapour pressure at 20 °C (Pa) |  |  |  |  |
| DT50 soil (d) |  |  |  |  |
| DT50 water(d) |  |  |  |  |
| DT50 sediment (d) |  |  |  |  |
| DT50 water/  sediment (d) |  |  |  |  |
| KOC/KfOC (mL/g) |  |  |  |  |
| 1/n |  |  |  |  |
| Maximum occurrence in soil (%) |  |  |  |  |
| Maximum occurrence in water/sediment study (%) (total system) |  |  |  |  |
| Plant uptake factor |  |  |  |  |
| Crop wash-off factor (cm-1) |  |  |  |  |
| Q10 |  |  |  |  |

Table 8.9.1‑3: Input parameters of ActiveSubstance2 and its metabolites for PECSW calculation

| End-Point | ActiveSubstance2 | Met2A | Met2B | Met2C |
| --- | --- | --- | --- | --- |
| Molecular weight (g/mol) |  |  |  |  |
| Water solubility (mg/L) at 20 °C, pH 7 |  |  |  |  |
| Vapour pressure at 20 °C (Pa) |  |  |  |  |
| DT50 soil (d) |  |  |  |  |
| DT50 water(d) |  |  |  |  |
| DT50 sediment (d) |  |  |  |  |
| DT50 water/  sediment (d) |  |  |  |  |
| KOC/KfOC (mL/g) |  |  |  |  |
| 1/n |  |  |  |  |
| Maximum occurrence in soil (%) |  |  |  |  |
| Maximum occurrence in water/sediment study (%) (total system) |  |  |  |  |
| Plant uptake factor |  |  |  |  |
| Crop wash-off factor (cm-1) |  |  |  |  |
| Q10 |  |  |  |  |

*FOCUS STEP 1-3*

Application windows for FOCUS STEP 3 calculations were selected according to the intended use patterns (table 8.9.1-4). The initial worst-case PECSW values for STEPs 1-3 are given in table 8.9.1-5 onwards.

Table 8.9.1‑4: Application timings for FOCUS surface water STEP 3 simulations

| **Crop** | **Scenario** | **Application window (Julian days)** |
| --- | --- | --- |
| **crop1** | D4 | xxx – xxx |
|  | R1 | xxx - xxx |
|  | R3 | xxx - xxx |
| **crop2** | D4 | xxx – xxx |
|  | R1 | xxx - xxx |
|  | R3 | xxx - xxx |

Table 8.9.1‑5: FOCUS Step 1,2 and 3 PECsw and PECsed for ActiveSubstance1 following single application to crop1

| Scenario  FOCUS | Waterbody | Max PECsw  (μg/L) | Dominant entry route | XX d- PECsw,twa  (µg/L)\* | Max PECsed (μg/kg) |
| --- | --- | --- | --- | --- | --- |
| Step 1 | --- |  | - |  |  |
| Step 2 |  |  |  |  |  |
|  | NEU, e.g. March-May |  | - |  |  |
|  | SEU, e.g. March-May |  |  |  |  |
| Step 3 |  |  |  |  |  |
| D4 | pond |  | e.g., Drift |  |  |
| D4 | stream |  | e.g., Drift |  |  |
| R1 | pond |  | e.g., Drift |  |  |
| R1 | stream |  | e.g., Drift |  |  |
| R3 | stream |  | e.g., Drift |  |  |

\*TWA time as required by ecotox

Table 8.9.1‑6: FOCUS Step 1,2 and 3 PECsw and PECsed for ActiveSubstance1 following single application to crop2

| Scenario  FOCUS | Waterbody | Max PECsw  (μg/L) | Dominant entry route | XX d- PECsw,twa  (µg/L)\* | Max PECsed (μg/kg) |
| --- | --- | --- | --- | --- | --- |
| Step 1 | --- |  | - |  |  |
| Step 2 |  |  |  |  |  |
|  | NEU, e.g. March-May |  | - |  |  |
|  | SEU, e.g. March-May |  |  |  |  |
| Step 3 |  |  |  |  |  |
| D4 | pond |  | e.g., Drift |  |  |
| D4 | stream |  | e.g., Drift |  |  |
| R1 | pond |  | e.g., Drift |  |  |
| R1 | stream |  | e.g., Drift |  |  |
| R3 | stream |  | e.g., Drift |  |  |

\*TWA time as required by ecotox

Table 8.9.1‑7: FOCUS Step 1 and 2 PECsw and PECsed for metabolite A of ActiveSubstance1 following single application to crop1

| Scenario  FOCUS | Waterbody | Max PECsw  (μg/L) | Dominant entry route | XX d- PECsw,twa  (µg/L)\* | Max PECsed (μg/kg) |
| --- | --- | --- | --- | --- | --- |
| Step 1 | --- |  | - |  |  |
| Step 2 |  |  |  |  |  |
|  | NEU, e.g. March-May |  | - |  |  |
|  | SEU, e.g. March-May |  |  |  |  |

\*TWA time as required by ecotox

Table 8.9.1‑8: FOCUS Step 1 and 2 PECsw and PECsed for metabolite A of ActiveSubstance1 following single application to crop2

| Scenario  FOCUS | Waterbody | Max PECsw  (μg/L) | Dominant entry route | XX d- PECsw,twa  (µg/L)\* | Max PECsed (μg/kg) |
| --- | --- | --- | --- | --- | --- |
| Step 1 | --- |  | - |  |  |
| Step 2 |  |  |  |  |  |
|  | NEU, e.g. March-May |  | - |  |  |
|  | SEU, e.g. March-May |  |  |  |  |

\*TWA time as required by ecotox

Table 8.9.1‑9: FOCUS Step 1 and 2 PECsw and PECsed for metabolite B of ActiveSubstance1 following single application to crop1

| Scenario  FOCUS | Waterbody | Max PECsw  (μg/L) | Dominant entry route | XX d- PECsw,twa  (µg/L)\* | Max PECsed (μg/kg) |
| --- | --- | --- | --- | --- | --- |
| Step 1 | --- |  | - |  |  |
| Step 2 |  |  |  |  |  |
|  | NEU, e.g. March-May |  | - |  |  |
|  | SEU, e.g. March-May |  |  |  |  |

\*TWA time as required by ecotox

Table 8.9.1‑10: FOCUS Step 1 and 2 PECsw and PECsed for metabolite B of ActiveSubstance1 following single application to crop2

| Scenario  FOCUS | Waterbody | Max PECsw  (μg/L) | Dominant entry route | XX d- PECsw,twa  (µg/L)\* | Max PECsed (μg/kg) |
| --- | --- | --- | --- | --- | --- |
| Step 1 | --- |  | - |  |  |
| Step 2 |  |  |  |  |  |
|  | NEU, e.g. March-May |  | - |  |  |
|  | SEU, e.g. March-May |  |  |  |  |

\*TWA time as required by ecotox

Table 8.9.1‑11: FOCUS Step 1,2 and 3 PECsw and PECsed for ActiveSubstance2 following single application to crop1

| Scenario  FOCUS | Waterbody | Max PECsw  (μg/L) | Dominant entry route | XX d- PECsw,twa  (µg/L)\* | Max PECsed (μg/kg) |
| --- | --- | --- | --- | --- | --- |
| Step 1 | --- |  | - |  |  |
| Step 2 |  |  |  |  |  |
|  | NEU, e.g. March-May |  | - |  |  |
|  | SEU, e.g. March-May |  |  |  |  |
| Step 3 |  |  |  |  |  |
| D4 | pond |  | e.g., Drift |  |  |
| D4 | stream |  | e.g., Drift |  |  |
| R1 | pond |  | e.g., Drift |  |  |
| R1 | stream |  | e.g., Drift |  |  |
| R3 | stream |  | e.g., Drift |  |  |

\*TWA time as required by ecotox

…

*FOCUS STEP 4*

STEP 4 PECSW values were calculated considering spray drift mitigation via no spray buffer zones (5/10/15/20 m) and the use of drift reducing nozzles (50/75/90 %) as well as run-off mitigation measures for the R-scenarios. For runoff mitigation measures, vegetative filter strips of 5, 10, 15 and 20 m were considered. The reduction efficiencies used for the calculation are presented Table 8.9.1‑12. VFSMod modelling was not performed following the Austrian National requirements.

Table 8.9.1‑12: Reduction efficiencies of surface run-off used for the calculation (according to national requirements)

| **Buffer width (m)** | **5a** | **10b** | **15c** | **20b** |
| --- | --- | --- | --- | --- |
| Reduction in volume of runoff water (%) | 40 | 60 | 70 | 80 |
| Reduction in mass of pesticide transported in aqueous phase (%) | 40 | 60 | 70 | 80 |
| Reduction in mass of eroded sediment (%) | 40 | 85 | 90 | 95 |
| Reduction in mass of pesticide transported in sediment phase (%) | 40 | 85 | 90 | 95 |

a EXPOSIT 3.0

b FOCUS (2007)

c average of 10 and 20 m

STEP 4 values for ActiveSubstance1 are given in Table 8.9.1‑13 to Table 8.9.1‑16. The STEP 4 values for ActiveSubstance2 are given in Table 8.9.1‑17 to Table 8.9.1-20. PECSW values were differentiated by single and multiple applications.

Table 8.9.1‑13: Global maximum PECSW values of ActiveSubstance1 at Step 4 following application on crop1 (single application)

| **Nozzle reduction** | **Vegetative strip (m)** | **None** | **None** | **None** | **None** | **None** | **5** | **10** | **15** | **20** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **No spray buffer (m)** | **FOCUS default** | **5** | **10** | **15** | **20** | **5** | **10** | **15** | **20** |
| None | D4 pond |  |  |  |  |  |  |  |  |  |
| 50 % |  |  |  |  |  |  |  |  |  |  |
| 75 % |  |  |  |  |  |  |  |  |  |  |
| 90 % |  |  |  |  |  |  |  |  |  |  |
| None | D4 stream |  |  |  |  |  |  |  |  |  |
| 50 % |  |  |  |  |  |  |  |  |  |  |
| 75 % |  |  |  |  |  |  |  |  |  |  |
| 90 % |  |  |  |  |  |  |  |  |  |  |
| None | R1 pond |  |  |  |  |  |  |  |  |  |
| 50 % |  |  |  |  |  |  |  |  |  |  |
| 75 % |  |  |  |  |  |  |  |  |  |  |
| 90 % |  |  |  |  |  |  |  |  |  |  |
| None | R1 stream |  |  |  |  |  |  |  |  |  |
| 50 % |  |  |  |  |  |  |  |  |  |  |
| 75 % |  |  |  |  |  |  |  |  |  |  |
| 90 % |  |  |  |  |  |  |  |  |  |  |
| None | R3 stream |  |  |  |  |  |  |  |  |  |
| 50 % |  |  |  |  |  |  |  |  |  |  |
| 75 % |  |  |  |  |  |  |  |  |  |  |
| 90 % |  |  |  |  |  |  |  |  |  |  |

Table 8.9.1‑14: Global maximum PECSW (µg/L) values of ActiveSubstance1 at Step 4 following application on crop1 (multiple application)

| **Nozzle reduction** | **Vegetative strip (m)** | **None** | **None** | **None** | **None** | **None** | **5** | **10** | **15** | **20** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **No spray buffer (m)** | **FOCUS default** | **5** | **10** | **15** | **20** | **5** | **10** | **15** | **20** |
| None | D4 pond |  |  |  |  |  |  |  |  |  |
| 50 % |  |  |  |  |  |  |  |  |  |  |
| 75 % |  |  |  |  |  |  |  |  |  |  |
| 90 % |  |  |  |  |  |  |  |  |  |  |
| None | D4 stream |  |  |  |  |  |  |  |  |  |
| 50 % |  |  |  |  |  |  |  |  |  |  |
| 75 % |  |  |  |  |  |  |  |  |  |  |
| 90 % |  |  |  |  |  |  |  |  |  |  |
| None | R1 pond |  |  |  |  |  |  |  |  |  |
| 50 % |  |  |  |  |  |  |  |  |  |  |
| 75 % |  |  |  |  |  |  |  |  |  |  |
| 90 % |  |  |  |  |  |  |  |  |  |  |
| None | R1 stream |  |  |  |  |  |  |  |  |  |
| 50 % |  |  |  |  |  |  |  |  |  |  |
| 75 % |  |  |  |  |  |  |  |  |  |  |
| 90 % |  |  |  |  |  |  |  |  |  |  |
| None | R3 stream |  |  |  |  |  |  |  |  |  |
| 50 % |  |  |  |  |  |  |  |  |  |  |
| 75 % |  |  |  |  |  |  |  |  |  |  |
| 90 % |  |  |  |  |  |  |  |  |  |  |

Table 8.9.1‑15: Global maximum PECSW (µg/L) values of ActiveSubstance1 at Step 4 following application on crop2 (single application)

| **Nozzle reduction** | **Vegetative strip (m)** | **None** | **None** | **None** | **None** | **None** | **5** | **10** | **15** | **20** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **No spray buffer (m)** | **FOCUS default** | **5** | **10** | **15** | **20** | **5** | **10** | **15** | **20** |
| None | D4 pond |  |  |  |  |  |  |  |  |  |
| 50 % |  |  |  |  |  |  |  |  |  |  |
| 75 % |  |  |  |  |  |  |  |  |  |  |
| 90 % |  |  |  |  |  |  |  |  |  |  |
| None | D4 stream |  |  |  |  |  |  |  |  |  |
| 50 % |  |  |  |  |  |  |  |  |  |  |
| 75 % |  |  |  |  |  |  |  |  |  |  |
| 90 % |  |  |  |  |  |  |  |  |  |  |
| None | R1 pond |  |  |  |  |  |  |  |  |  |
| 50 % |  |  |  |  |  |  |  |  |  |  |
| 75 % |  |  |  |  |  |  |  |  |  |  |
| 90 % |  |  |  |  |  |  |  |  |  |  |
| None | R1 stream |  |  |  |  |  |  |  |  |  |
| 50 % |  |  |  |  |  |  |  |  |  |  |
| 75 % |  |  |  |  |  |  |  |  |  |  |
| 90 % |  |  |  |  |  |  |  |  |  |  |
| None | R3 stream |  |  |  |  |  |  |  |  |  |
| 50 % |  |  |  |  |  |  |  |  |  |  |
| 75 % |  |  |  |  |  |  |  |  |  |  |
| 90 % |  |  |  |  |  |  |  |  |  |  |

Table 8.9.1‑16: Global maximum PECSW (µg/L) values of ActiveSubstance1 at Step 4 following application on crop2 (multiple application)

| **Nozzle reduction** | **Vegetative strip (m)** | **None** | **None** | **None** | **None** | **None** | **5** | **10** | **15** | **20** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **No spray buffer (m)** | **FOCUS default** | **5** | **10** | **15** | **20** | **5** | **10** | **15** | **20** |
| None | D4 pond |  |  |  |  |  |  |  |  |  |
| 50 % |  |  |  |  |  |  |  |  |  |  |
| 75 % |  |  |  |  |  |  |  |  |  |  |
| 90 % |  |  |  |  |  |  |  |  |  |  |
| None | D4 stream |  |  |  |  |  |  |  |  |  |
| 50 % |  |  |  |  |  |  |  |  |  |  |
| 75 % |  |  |  |  |  |  |  |  |  |  |
| 90 % |  |  |  |  |  |  |  |  |  |  |
| None | R1 pond |  |  |  |  |  |  |  |  |  |
| 50 % |  |  |  |  |  |  |  |  |  |  |
| 75 % |  |  |  |  |  |  |  |  |  |  |
| 90 % |  |  |  |  |  |  |  |  |  |  |
| None | R1 stream |  |  |  |  |  |  |  |  |  |
| 50 % |  |  |  |  |  |  |  |  |  |  |
| 75 % |  |  |  |  |  |  |  |  |  |  |
| 90 % |  |  |  |  |  |  |  |  |  |  |
| None | R3 stream |  |  |  |  |  |  |  |  |  |
| 50 % |  |  |  |  |  |  |  |  |  |  |
| 75 % |  |  |  |  |  |  |  |  |  |  |
| 90 % |  |  |  |  |  |  |  |  |  |  |

Table 8.9.1‑17: Global maximum PECSW (µg/L) values of ActiveSubstance2 at Step 4 following application on crop1 (single application)

| **Nozzle reduction** | **Vegetative strip (m)** | **None** | **None** | **None** | **None** | **None** | **5** | **10** | **15** | **20** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **No spray buffer (m)** | **FOCUS default** | **5** | **10** | **15** | **20** | **5** | **10** | **15** | **20** |
| None | D4 pond |  |  |  |  |  |  |  |  |  |
| 50 % |  |  |  |  |  |  |  |  |  |  |
| 75 % |  |  |  |  |  |  |  |  |  |  |
| 90 % |  |  |  |  |  |  |  |  |  |  |
| None | D4 stream |  |  |  |  |  |  |  |  |  |
| 50 % |  |  |  |  |  |  |  |  |  |  |
| 75 % |  |  |  |  |  |  |  |  |  |  |
| 90 % |  |  |  |  |  |  |  |  |  |  |
| None | R1 pond |  |  |  |  |  |  |  |  |  |
| 50 % |  |  |  |  |  |  |  |  |  |  |
| 75 % |  |  |  |  |  |  |  |  |  |  |
| 90 % |  |  |  |  |  |  |  |  |  |  |
| None | R1 stream |  |  |  |  |  |  |  |  |  |
| 50 % |  |  |  |  |  |  |  |  |  |  |
| 75 % |  |  |  |  |  |  |  |  |  |  |
| 90 % |  |  |  |  |  |  |  |  |  |  |
| None | R3 stream |  |  |  |  |  |  |  |  |  |
| 50 % |  |  |  |  |  |  |  |  |  |  |
| 75 % |  |  |  |  |  |  |  |  |  |  |
| 90 % |  |  |  |  |  |  |  |  |  |  |

Table 8.9.1‑18: Global maximum PECSW (µg/L) values of ActiveSubstance2 at Step 4 following application on crop1 (multiple application)

| **Nozzle reduction** | **Vegetative strip (m)** | **None** | **None** | **None** | **None** | **None** | **5** | **10** | **15** | **20** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **No spray buffer (m)** | **FOCUS default** | **5** | **10** | **15** | **20** | **5** | **10** | **15** | **20** |
| None | D4 pond |  |  |  |  |  |  |  |  |  |
| 50 % |  |  |  |  |  |  |  |  |  |  |
| 75 % |  |  |  |  |  |  |  |  |  |  |
| 90 % |  |  |  |  |  |  |  |  |  |  |
| None | D4 stream |  |  |  |  |  |  |  |  |  |
| 50 % |  |  |  |  |  |  |  |  |  |  |
| 75 % |  |  |  |  |  |  |  |  |  |  |
| 90 % |  |  |  |  |  |  |  |  |  |  |
| None | R1 pond |  |  |  |  |  |  |  |  |  |
| 50 % |  |  |  |  |  |  |  |  |  |  |
| 75 % |  |  |  |  |  |  |  |  |  |  |
| 90 % |  |  |  |  |  |  |  |  |  |  |
| None | R1 stream |  |  |  |  |  |  |  |  |  |
| 50 % |  |  |  |  |  |  |  |  |  |  |
| 75 % |  |  |  |  |  |  |  |  |  |  |
| 90 % |  |  |  |  |  |  |  |  |  |  |
| None | R3 stream |  |  |  |  |  |  |  |  |  |
| 50 % |  |  |  |  |  |  |  |  |  |  |
| 75 % |  |  |  |  |  |  |  |  |  |  |
| 90 % |  |  |  |  |  |  |  |  |  |  |

Table 8.9.1‑19: Global maximum PECSW (µg/L) values of ActiveSubstance2 at Step 4 following application on crop2 (single application)

| **Nozzle reduction** | **Vegetative strip (m)** | **None** | **None** | **None** | **None** | **None** | **5** | **10** | **15** | **20** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **No spray buffer (m)** | **FOCUS default** | **5** | **10** | **15** | **20** | **5** | **10** | **15** | **20** |
| None | D4 pond |  |  |  |  |  |  |  |  |  |
| 50 % |  |  |  |  |  |  |  |  |  |  |
| 75 % |  |  |  |  |  |  |  |  |  |  |
| 90 % |  |  |  |  |  |  |  |  |  |  |
| None | D4 stream |  |  |  |  |  |  |  |  |  |
| 50 % |  |  |  |  |  |  |  |  |  |  |
| 75 % |  |  |  |  |  |  |  |  |  |  |
| 90 % |  |  |  |  |  |  |  |  |  |  |
| None | R1 pond |  |  |  |  |  |  |  |  |  |
| 50 % |  |  |  |  |  |  |  |  |  |  |
| 75 % |  |  |  |  |  |  |  |  |  |  |
| 90 % |  |  |  |  |  |  |  |  |  |  |
| None | R1 stream |  |  |  |  |  |  |  |  |  |
| 50 % |  |  |  |  |  |  |  |  |  |  |
| 75 % |  |  |  |  |  |  |  |  |  |  |
| 90 % |  |  |  |  |  |  |  |  |  |  |
| None | R3 stream |  |  |  |  |  |  |  |  |  |
| 50 % |  |  |  |  |  |  |  |  |  |  |
| 75 % |  |  |  |  |  |  |  |  |  |  |
| 90 % |  |  |  |  |  |  |  |  |  |  |

Table 8.9.1‑20: Global maximum PECSW (µg/L) values of ActiveSubstance2 at Step 4 following application on crop2 (multiple application)

| **Nozzle reduction** | **Vegetative strip (m)** | **None** | **None** | **None** | **None** | **None** | **5** | **10** | **15** | **20** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **No spray buffer (m)** | **FOCUS default** | **5** | **10** | **15** | **20** | **5** | **10** | **15** | **20** |
| None | D4 pond |  |  |  |  |  |  |  |  |  |
| 50 % |  |  |  |  |  |  |  |  |  |  |
| 75 % |  |  |  |  |  |  |  |  |  |  |
| 90 % |  |  |  |  |  |  |  |  |  |  |
| None | D4 stream |  |  |  |  |  |  |  |  |  |
| 50 % |  |  |  |  |  |  |  |  |  |  |
| 75 % |  |  |  |  |  |  |  |  |  |  |
| 90 % |  |  |  |  |  |  |  |  |  |  |
| None | R1 pond |  |  |  |  |  |  |  |  |  |
| 50 % |  |  |  |  |  |  |  |  |  |  |
| 75 % |  |  |  |  |  |  |  |  |  |  |
| 90 % |  |  |  |  |  |  |  |  |  |  |
| None | R1 stream |  |  |  |  |  |  |  |  |  |
| 50 % |  |  |  |  |  |  |  |  |  |  |
| 75 % |  |  |  |  |  |  |  |  |  |  |
| 90 % |  |  |  |  |  |  |  |  |  |  |
| None | R3 stream |  |  |  |  |  |  |  |  |  |
| 50 % |  |  |  |  |  |  |  |  |  |  |
| 75 % |  |  |  |  |  |  |  |  |  |  |
| 90 % |  |  |  |  |  |  |  |  |  |  |

### Product

PECSW values for the product ProductName were calculated based on drift only using the FOCUS SWASH Drift calculator. Only PECSW values were calculated, no transfer into sediment was assumed.

The GAP with relevant application and scenario parameters used for FOCUS drift calculations for the product ProductName are presented in table 8.9.2-1.

Table 8.9.2‑1: Critical GAP of ProductName applied as application method to crop1, crop2 considered for the PECSW drift calculations

| **Crop** | **FOCUS crop scenario** | **Earliest growth stage of crop for application (BBCH)** | **Maximum application rate per treatment**  **(g PPP/ha)** | **Appl. no.** | **Min. interval (days)** |
| --- | --- | --- | --- | --- | --- |
| crop1 | <FOCUS crop1> | BBCH xx - xx | xxx\* | xxx | xxx |
| crop2 | <FOCUS crop2> | BBCH xx - xx | xxx\* | xxx | xxx |

\* based on the density of the product of XXX kg/L

The following drift mitigation measures were considered: drift mitigation via drift reducing nozzles (drift reduction of 50 %, 75 %, 90 %) and via buffer zones (distance to the water body: FOCUS default, 5 m, 10 m, 15 m, 20 m).

The calculated maximum predicted concentrations of the product ProductName in surface water (PECsw) according to FOCUS drift calculator following application to different crops according to the Austrian GAP are summarised in the table below.

Table 8.9.2‑2: Initial PECSW [µg/L] of product ProductName

| **Crop** | **Nozzle mitigation** | **FOCUS Default** | **5 m** | **10 m** | **15 m** | **20 m** |
| --- | --- | --- | --- | --- | --- | --- |
| crop1 | None |  |  |  |  |  |
| (single application) | 50 % |  |  |  |  |  |
|  | 75 % |  |  |  |  |  |
|  | 90 % |  |  |  |  |  |
| crop1 | None |  |  |  |  |  |
| (multiple application) | 50 % |  |  |  |  |  |
|  | 75 % |  |  |  |  |  |
|  | 90 % |  |  |  |  |  |
| crop2 | None |  |  |  |  |  |
| (single application) | 50 % |  |  |  |  |  |
|  | 75 % |  |  |  |  |  |
|  | 90 % |  |  |  |  |  |
| crop2 | None |  |  |  |  |  |
| (multiple application) | 50 % |  |  |  |  |  |
|  | 75 % |  |  |  |  |  |
|  | 90 % |  |  |  |  |  |

## Predicted Environmental Concentrations in Air (PECAIR) (KCP 9.3, KCP 9.3.1)

Applicant to insert text from the RR.

**Appendix 1** List of data submitted in support of the evaluation

| **Annex point** | **Author** | **Year** | **Title**  **Source (where different from company)**  **Company, Report No.**  **GLP or GEP status (where relevant)**  **Published or Unpublished** | **Data protection claimed Y/N** | **Owner** |
| --- | --- | --- | --- | --- | --- |
| No specific studies relevant for national assessment were submitted. |  |  |  |  |  |

**Appendix 2 Table of intended uses**

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Use-No.** | **Member state(s)** | **Crop and/ or situation** | **F G** | **Pests or Group of pests controlled** |  | **Application** |  |  | **Application rate** |  | **PHI** (days) | **Remarks:** |
|  |  | **(crop destination / purpose of crop)** | **or**  **I** | (additionally: developmental stages of the pest or pest group) | Method / Kind | Timing / Growth stage of crop & season | Max. number (min. interval between applications)  a) per use  b) per crop/ season | kg product / ha  a) max. rate per appl.  b) max. total rate per crop/season | kg as/ha  a) max. rate per appl.  b) max. total rate per crop/season | Water L/ha  min / max |  | e.g. g safener/ synergist per ha |
| 1 | AT |  |  |  |  |  |  |  |  |  |  |  |