

# **FINAL REGISTRATION REPORT**

## **Part B**

### **Section 0**

#### **Product Background, Regulatory Context and GAP information**

Product code: **102000025743**

Product name(s): **Foramsulfuron + Thiencarbazone-methyl**  
(Active substance(s)) **OD 80 (50+30 g/L)**

**Southern, Central and Northern Zones**  
**Zonal Rapporteur Member State: France**  
**Poland**  
**Lithuania**

#### **CORE ASSESSMENT** **(Re-Authorisation)**

Applicant: **Bayer Crop Science Division**

Submission date: **31/08/2020**

MS Finalisation date: **10/2021; 12/2021; 01/2022**

## Version history

When	What
31/08/2020	Original Bayer CropScience document (Regulation 1107/2009 - Art. 43) Foramsulfuron
October 2021	The renewal of the authorisation of the PPP (Art 43); zRMS evaluation
December 2021	Updated assessment following commenting period
January 2022	zRMS correction after additional data submission

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## 0 Product background, regulatory context and GAP information

### 0.1 Introduction

#### 0.1.1 Reason for application

This dossier is submitted to support the re-authorisation of the plant protection product **FSN+TCM OD 80** (50 + 30 g/L) under Article 43 of Regulation (EC) No 1107/2009 further to the renewal of EU approval of the active substance foramsulfuron

The product **FSN+TCM+OD 80** contains 50 g/L of foramsulfuron (FSN) and 30 g/L of thien carbazonemethyl (TCM).

This application follows the data requirements for the active substance laid down in Regulation (EC) No. 283/2013 and the data requirements for the plant protection product laid down in Regulation (EC) No. 284/2013.

The formulation FSN+TCM OD 80 was not the representative formulation for the EU re-approval process of foramsulfuron or the EU approval process of thien carbazonemethyl.

#### 0.1.2 Details of zRMS(s) and concerned MS

**Table 0.1-1: Overview of zRMS and cMS**

	<b>zRMS, product name and authorization no. (if relevant)</b>	<b>(if relevant) Concerned MS, MS' product name and authorization number (if applicable)</b>
<b>Northern zone</b>	Lithuania, Conviso One, AS2-12H/2016	Denmark, Conviso One, 18-589 Sweden, Conviso One, 5254 Finland, Conviso One, 3325
<b>Central zone</b>	Poland, Conviso One, R-40/2017 wu	Austria, Conviso One, 4004 Belgium, Conviso One, 10827P/B Czech Republic, Conviso One, 5629-0 Hungary, Conviso One, 04.2/709-2/2018. NÉBIH Ireland, Conviso One, PCS No. 06436 Romania, Conviso One 80 OD, 508PC/14.03.2019 The Netherlands, Conviso One, 15728 N United Kingdom, Conviso One, MAPP 19036
<b>Southern zone</b>	France , Conviso One, 2161095	Italy, Conviso One, 16472 Spain, Conviso One, ES-00387 Croatia, Conviso One, UP/I-320-20/15-01/174 Portugal, Conviso One, AV 1445

### 0.1.3 Regulatory history of the active(s)

#### 0.1.3.1 Foramsulfuron

**Table 0.1-2: Summary of regulatory history of CAS No:**

Status	
Approved in EU	Y
Original Inclusion Directive or Commission Implementing Regulation	Commission Implementing Regulation (EU) 2020/616 of 5 <sup>th</sup> of May 2020 <sup>1</sup>
RMS	Germany (original) Finland / Slovakia (EU re-approval)
Date of Approval (or most recent renewal) of Active Substance (date of Regulation to be applied)	1 <sup>st</sup> of June 2020 (date of EU re-approval)
Date of first Commission (re-registration) deadline (Step 1) or date of deadline for renewal of authorization (renewal)	31/12/2003 (Step 1) – 1 <sup>st</sup> EU approval
Date of final Commission (re-registration) deadline (Step 2)	31/12/2004 – 1 <sup>st</sup> EU approval
Current expiration of approval	31 <sup>st</sup> of May 2035 Commission Implementing Regulation (EU) 2020/616 of 5 <sup>th</sup> of May 2020
Low risk substance or Candidate for Substitution?	N/A

Issues that need to be considered as part of the EU approval are listed below.

For the implementation of the uniform principles, as referred to in Article 29(6) of Regulation (EC) No 1107/2009, the conclusions of the renewal report on foramsulfuron, and in particular Appendices I and II thereto, shall be taken into account.

In this overall assessment Member States shall pay particular attention to:

- the risk to consumers and operators,
- the risk to aquatic organisms and non-target plants.

Conditions of use shall include risk mitigation measures, where appropriate.

The applicant shall submit confirmatory information as regards the effect of water treatment processes on the nature of residues present in surface water and groundwater, when surface water or groundwater is abstracted for drinking water, within two years after adoption of a guidance document on evaluation of the effect of water treatment processes on the nature of residues present in surface and groundwater

The SANCO report for foramsulfuron (SANTE-2016-11214 Rev. 2. – 24<sup>th</sup> of March 2020) is considered to provide the relevant information on the evaluation or a reference to where such information can be found. An EFSA Scientific Report was made available on February 2016 (EFSA Journal 2016; 14(3):4421).

<sup>1</sup> Commission Implementing Regulation (EU) 2020/616 of 5<sup>th</sup> of May 2020 renewing the approval of the active substance foramsulfuron in accordance with Regulation (EC) No 1107/2009 of the European Parliament and of the Council concerning the placing of plant protection products on the market and amending the Annex to Commission Implementing Regulation (EU) No 540/2011.

**Table 0.1-3: Information on minimum purity of foramsulfuron**

EU agreed minimum purity from Inclusion Directive or Implementing regulation	(if different) Minimum purity of active substance used in the product / information on available equivalency report *, **
minimum purity of active substance: 973 g/kg	Equivalence report available: N RMS:

\* Since EU approval new studies on the active substance have been performed (e.g. new manufacturing site, new specification) and as a result the purity of the active substance has changed (see Part C).

\*\* If the specification of the active substance is different to that used as reference specification for EU approval then please refer to the equivalency document from the RMS.

**zRMS comment:**

According to the Applicant's statement:

*There are no equivalence reports for foramsulfuron. In the original Annex I inclusion process, the purity of foramsulfuron was defined as 940 g/kg. Following the Annex I inclusion, there was a change in the manufacturing process when moving from pilot to full scale production. Although the change in the process and the resulting improved specification (960 g/kg) was submitted at EU level (via the RMS), the new process was not officially approved at EU level but separately in each individual Member State. In the Annex I Renewal (AIR) process, a new manufacturing process was submitted along with a new material accountability study with a revised proposed specification: 973 g/kg.*

Regarding the report PA13/113, Selzer J. 2013: *Material accountability of technical Formasulfuron (AE F130360)* which was submitted upon request, average content of Foramsulfuron in evaluated batches was 982 g/kg. The min purity 973 g/kg was confirmed by the quality data from the period 2016-2020 (see Part C).

The following table provides the endpoints used in the evaluation in the case that they deviate from EU endpoints.

No deviation from the EU agreed endpoints were used for any of the risk assessment presented in the dRR parts for the present application. New studies were used as a higher tier approach to allow refinement options for the aquatic risk assessment as detailed in the respective dRR parts B8 and B9.

Endpoint	Active Substance	
	EU agreed endpoint from EFSA scientific report	Endpoint used*
Endpoint	-	-

\* Since EU approval new studies on the active substance have been performed (e.g. new manufacturing site, new specification, confirmatory data)

### 0.1.3.2 Thiencarbazone-methyl

**Table 0.1-4: Summary of regulatory history of CAS No: 317815-83-1**

Status	
Approved in EU	Yes
Original Inclusion Directive or	Commission Implementing Regulation

<b>Status</b>	
Commission Implementing Regulation	145/2014/EC dated 14 <sup>th</sup> of February 2014 <sup>2</sup>
RMS	United Kingdom
Date of Approval (or most recent renewal) of Active Substance (date of Regulation to be applied)	1 <sup>st</sup> July 2014
Date of first Commission (re-registration) deadline (Step 1) or date of deadline for renewal of authorization (renewal)	1 <sup>st</sup> of July 2014 (Step 1)
Date of final Commission (re-registration) deadline (Step 2)	31/12/2014 (Step 2 dossier submission)
Current expiration of approval	30 <sup>th</sup> of June 2024 Commission Implementing Regulation (EU) 145/2014 of 14 <sup>th</sup> of February 2014
Low risk substance or Candidate for Substitution?	N/A

Issues that need to be considered as part of the EU approval are listed below.

In this overall assessment Member States must pay particular attention to:

- the risk to groundwater if the substance is applied under vulnerable geographical or climatic conditions
- the risk to aquatic organisms.

The EFSA conclusions on the peer review for thiencarbazon-methyl were published in June 2013 (EFSA Journal 2013; 11(7): 3270).

**Table 0.1-5: Information on minimum purity of thiencarbazon-methyl**

<b>EU agreed minimum purity from Inclusion Directive or Implementing regulation</b>	<b>(if different) Minimum purity of active substance used in the product / information on available equivalency report *, **</b>
minimum purity of active substance: 950 g/kg	Equivalence report available: Y RMS: UK 969 g/kg for the production site Frankfurt am Main

\* Since EU approval new studies on the active substance have been performed (e.g. new manufacturing site, new specification) and as a result the purity of the active substance has changed (see Part C).

\*\*. If the specification of the active substance is different to that used as reference specification for EU approval then please refer to the equivalency document from the RMS.

The following table provides the endpoints used in the evaluation in the case that they deviate from EU endpoints.

No deviation from the EU agreed endpoints were used for any of the risk assessment presented in the dRR parts for the present application. New studies were used as a higher tier approach to allow refinement options for the aquatic risk assessment as detailed in the respective dRR parts B8 and B9.

<b>Endpoint</b>	<b>Active Substance</b>	
	<b>EU agreed endpoint from EFSA scientific report</b>	<b>Endpoint used*</b>
Endpoint	-	-

\* Since EU approval new studies on the active substance have been performed (e.g. new manufacturing site, new

<sup>2</sup> Commission Implementing Regulation (EU) No 145/2014 of 14 February 2014 approving the active substance thiencarbazon, in accordance with Regulation (EC) No 1107/2009 of the European Parliament and of the Council concerning the placing of plant protection products on the market and amending the Annex to Commission Implementing Regulation (EU) No 540/2011.



specification, confirmatory data)

#### **0.1.4 Regulatory history of the product (if relevant)**

The following table provides corresponding information of product codes, product names and authorizations in different EU Member States.

The first submission for registration at zonal level was done in 2015.

**Table 0.1-6: Summary of regulatory history of the product FSN+TCM OD 80 (50+30)**

Product code	Product name(s)	MS	Authorization No.	Date of initial registration	Expiry date	Date of the last re-reg- istration
FSN + TCM OD 80	Conviso One	France	2161095	2017-03-28	2020-07-30	-
	Conviso One	Croatia	UP/I-320-20/15-01/174	2017-11-29	2021-07-31	-
	Conviso One	Spain	ES-00387	2018-01-23	2020-07-31	-
	Conviso One	Italy	16472	2018-05-09	2025-06-30	-
	Conviso One	Portugal	AV. 1445	2019-12-15	2021-07-31	-
	Conviso One	Lithuania	AS2-12H/2016	2016-02-11	2021-07-31	-
	Conviso One	Sweden	5254	2016-08-23	2020-07-31	-
	Conviso One	Denmark	18-589	2016-11-11	2020-07-31	-
	Conviso One	Finland	3325	2017-03-08	2020-07-31	-
	Conviso One	Poland	R-40/2017 wu	2017-10-20	2021-07-31	-
	Conviso One	Czech Republic	5629-0	2018-07-04		-
	Conviso One	Belgium	10827P/B	2018-09-03	2021-07-31	-
	Conviso One	The Netherlands	15728 N	2018-11-02	2021-07-31	-
	Conviso One	Hungary	04.2/709-2/2018. NÉBIH	2018-11-19	2023-11-30	-
	Conviso One 80 OD	Romania	508PC/14.03.2019	2019-03-14	2020-07-31	-
	Conviso One	Austria	4004	2019-02-15	2020-07-31	-
	Conviso One	United Kingdom	MAPP 19036	2019-03-14	2022-03-13	-
	Conviso One	Ireland	PCS No. 06436	2019-05-24	Never	-
	Conviso One	Slovakia	Emergency authorisation	2019-01-17	2019-05-31	

(-): not relevant

At the time of the dRR Section B0 finalisation, the product expiry date might not have been updated by the country's authority to reflect the new expiry date of the active substance foramsulfuron (Date of Application: 01<sup>st</sup> of June 2020 – EU re-approval).

## 0.2 zRMS conclusion

Uses to be considered safe on the basis of EU methodology:

Efficacy section: 1-40  
Residues section: 29 & 37  
Environmental fate and behavior section: 22, 32-All uses are acceptable.  
Ecotoxicology section: All uses are acceptable.

Uses to be considered non-safe on the basis of EU methodology:

Efficacy section: none  
Residues section: 1-28; 30-36; 38-40  
Environmental fate and behavior section: 1-21; 23-31; 33-40 none  
Ecotoxicology section: none

Residues section:

All uses/ GAPs are covered by established MRLs for use in sugar beet..

The main conclusions:

### **Physical and chemical properties:**

~~One of the co-formulants and its equivalent contains solvent naphtha, light fraction (CAS no. 64742-95-6) which is on the list of co-formulants, which are not accepted for inclusion in plant protection products according to the Regulation (EU) 2021/383 of 3 March 2021. It is necessary to replace mentioned component and provide confirmation of the equivalence of the new composition.~~

### **Efficacy section:**

The data presented in this dossier fully support the renewal under Article 43 of FSN+TCM OD 80 for the control of weeds in sugarbeet and fodder beet. In Poland (ZRMs) FSN+TCM OD 80 was registered under trade name: Conviso One (R-40/2017 wu dated 20.10.2017) and it can be re-registered. In our opinion each cMS should decide if presented documentation is sufficient for re-registration FSN+TCM OD 80.

### **Mammalian toxicology section:**

Classification for FSN+TCM OD 80 is: H304, H315, H317, H318, H332, H351. According to the EFSA calculation, it can be concluded that the risk for operator, worker, resident/bystander is acceptable

### **Metabolism and Residues:**

Data gaps: none-Storage stability data for metabolite AE F092944

### **Fate and behaviour:**

No risk for ground water for uses 22 and 32 (according GAP for PL).

### **Section Ecotoxicology:**

The risk assessments for birds and mammals meet the trigger criteria at screening level, for all in-tended uses of product FSN+TCM OD 80 (50+30). No unacceptable risk resulted also from the assessment of exposure via drinking water, and for secondary poisoning via prey like fish and earthworms. The above assessments do not raise specific concern for other terrestrial vertebrate wildlife such as reptiles and amphibians.

Acceptable risk for all aquatic organisms other than macrophytes could be demonstrated in a screening-

level risk assessment (FOCUS Steps 1-2) for the active substances contained in product FSN+TCM OD 80 (50+30), and their metabolites.

For macrophytes, refined assessments were presented for a.s. –foramsulfuron and resulted in conclusions as follows: •

**For use group B (rate 1.0 L prod/ha = 1 x 50 g/ha FSN):**

- D3 (ditch) -5 meter non spray buffer zone
- D4 (stream)- 5 meter non spray buffer zone
- R1 (stream) – 10 meter non spray buffer zone
- R3 (stream) - 20 meter non spray buffer zone

**•For use group C - use on sugar beet / rate 2 x 25 g a.s./ha (2 x 0.5 L prod./ha)**

- D3 (ditch) -5 meter non spray buffer zone
- D4 (stream)- 5 meter non spray buffer zone
- R1 (stream) – 20 meter non spray buffer zone
- R3 (stream) unresolved risk with 20 meter non spray buffer zone

The PEC/RAC ratio is below <1 for thiencazone-methyl when following risk mitigation measures are applied to surface water bodies:

**Group B use on sugar beet / rate 1 x 30 g a.s./ha (1 x 1.0 L prod./ha)**

- D3 scenario- 5 meter buffer non-spray zone
- R3 scenario – 10 meter non-spray zone

**Group C - use on sugar beet / rate 2 x 15 g a.s./ha (2 x 0.5 L prod./ha)**

- R1 scenario - 10 meter buffer non-spray zone
- R3 scenario – 20 meter non-spray zone

**Combined risk assessment :**

**Use group B (1 x 50 g /ha FSN + 1 x 30 g /ha TCM (1 x 1.0 L prod./ha)**

The risk is considered acceptable for the following scenarios:

- D3- 10 meter non-spray zone
- D4 pond - resolved at STEP 3
- D4 stream – 10 meter non spray zone
- R1 pond –resolved at STEP 3
- R1 stream – 20 meter non –spray buffer zone
- R3 stream- **not resolved with 20 meter non –spray buffer zone**

**Use group C (2 x 25 g /ha FSN + 2 x 15 g /ha TCM (2 x 0.5 L prod./ha).**

- D3- 5 meter non-spray zone
- D4 pond - resolved at STEP 3
- D4 stream – 5 meter non spray zone
- R1 pond –resolved at STEP 3

**R1 stream – not resolved with 20 meter non –spray buffer zone**

**R3 stream- not resolved with 20 meter non –spray buffer zone**

Therefore, further refinement should be considered at MSs level for the following scenarios:

- R3 stream for use group B (1 x 50 g /ha FSN + 1 x 30 g /ha TCM (1 x 1.0 L prod./ha).
- R1 stream and R3 stream for use group C (2 x 25 g /ha FSN + 2 x 15 g /ha TCM (2 x 0.5 L prod./ha).

The risk to bees was demonstrated to be acceptable for all intended uses of product FSN+TCM OD 80 (50+30), based on assessments for the active substances, and the formulated product.

No measures for exposure mitigation need to be taken into account for the protection of bees.

According to Reg.284/2009 the chronic test for adults bees and larve should be provided.

The risk to arthropods other than bees is acceptable for all intended uses of product FSN+TCM OD 80 (50+30), based on the presented assessments for the in-field and the off-field exposure situations.

No measures for exposure mitigation need to be taken into account for the protection of arthropods other than bees.

No unacceptable risk to the soil meso- and macrofauna and to the soil microbial activity is concluded from the risk assessments presented, for all intended uses of the product FSN+TCM OD 80 (50+30).

No measures for exposure mitigation need to be taken into account for the protection of soil organisms.

Based on **probabilistic risk assessment** it is concluded that the use of the product will not produce unacceptable effects on terrestrial non-target plants growing near treated fields, when considering the following mitigation measures:

- 10 m buffer zone, or alternatively 5 m buffer zone and 50% drift reducing spray nozzles, or alternatively 90% drift reducing spray nozzles for the application rate 1 x 1.0 L product/ha (use group B).
- a 5 m buffer zone, or alternatively 75% drift reducing spray nozzles for the application rate 2 x 0.5 L product/ha (use group C).

The position of the zRMS-PL is that the trigger value of 1 should be used in the probabilistic risk assessment with a HR5 value; however it is noted that this is not a Central Zone harmonised position and other member states may consider the use of a different trigger value at National Registration.

The risk mitigation measures should be considered at MSs level depending on their national requirements.

Based on the **deterministic risk assessment** it is concluded that the use of the product will not produce unacceptable effects on terrestrial non-target plants growing near treated fields, when considering the following mitigation measures:

Use group B (1 x 1 L product/ha)

- 5 m in-crop buffer with 90% drift reducing nozzles or
- 10 m in-crop buffer with 75 % drift reducing nozzles

Use group C (2 x 0.5 L product/ha)

- 5 m in-crop buffer with 50% drift reducing nozzles or
- 10 m in-crop buffer with 75 % drift reducing nozzles

The risk mitigation measures should be considered at MSs level depending on their national requirements.

## Appendix 1 Intended uses

PPP (product name/code):	<b>FSN+TCM OD 80</b>	Formulation type:	OD
Active substance 1:	Foramsulfuron (FSN)	Conc. of as 1:	50 g/L
Active substance 2:	Thiencarbazone-methyl (TCM)	Conc. of as 2:	30 g/L
		Conc. of as 3:	
Safener:	-	Conc. of safener:	-
Synergist:	-	Conc. of synergist:	-
Applicant:	Bayer CropScience	Professional use:	<input checked="" type="checkbox"/>
Zone(s):	Central /Southern/ Northern <sup>(d)</sup>	Non professional use:	<input type="checkbox"/>
Verified by MS:	yes/no		
Field of use:	Herbicide		

1	2	3	4	5	6	7	8	9	10	11	12	13	14
Use No.	Member state	Crop and/or situation (crop destination / purpose of crop)	F, G, I	Pests / group of pests controlled (*) (additionally: developmental stages)	Appl. method / kind	Appl. timing / growth stage of crop & season	Appl. max number a) per use b) per crop / season	Min interval between applications (days)	Appl. rate (L PPP/ha) a) max per appl. b) max total per crop / season	Appl. rate (g as/ha) a) max per appl. b) max total per crop / season	Water (L/ha) min-max	PHI (days)	Remarks
1	FRA	Sugar beet (BEAVA) Fodder beet (BEAVC)	F	TTTDD, GGGGG	spraying (broadcast, overall)	10-18	a) 1 b) 1	-	a) 1 b) 1	a) FSN 50 + TCM 30 b) FSN 50 + TCM 30	80-300	as per growth stage	-
2	HRV	Sugar beet (BEAVA)	F	BBBAN, GGGAN	spraying (broadcast, overall)	10-18	a) 1 b) 1	-	a) 1 b) 1	a) FSN 50 + TCM 30 b) FSN 50 + TCM 30	100-300	as per growth stage	-
3	ESP	Sugar beet (BEAVA) Fodder beet (BEAVC)	F	TTTDD, GGGAN	spraying (broadcast, overall)	10-18	a) 1 b) 1	-	a) 1 b) 1	a) FSN 50 + TCM 30 b) FSN 50 + TCM 30	100-300	as per growth stage	-

4	ITA	Sugar beet (BEAVA)	F	AMARE, BRNN, CHEAL, CHEHY, CVCCA, FAGES, FUMOF, GASCI, GALAP, LAMPU, MATCH, MERAN, PAPRH, POLAV, POLCO, POLLA, POLPE, SOLNI, STEME, THLAR, VIOAR, ALOMY, ECHCG, LOLSS, PANMI, POAAN	spraying (broadcast, overall)	10-18	a) 1 b) 1	-	a) 1 b) 1	a) FSN 50 + TCM 30 b) FSN 50 + TCM 30	100-300	as per growth stage	-
5	PRT	Sugar beet (BEAVA) Fodder beet (BEAVC)	F	TTTTDD, GGGGG	spraying (broadcast, overall)	10-18	a) 1 b) 1	-	a) 1 b) 1	a) FSN 50 + TCM 30 b) FSN 50 + TCM 30	80-300	as per growth stage	-
6	FRA	Sugar beet (BEAVA) Fodder beet (BEAVC)	F	TTTTDD, GGGGG	spraying (broadcast, overall)	10-18 B1: 10-14 B2: 12-18	a) B1: 1 B2: 1 b) 2	B1: - B2: - 10 d after B1	a) B1: 0.5 B2: 0.5 b) 1	a) FSN 25 + TCM 15 b) FSN 50 + TCM 30	80-300	as per growth stage	-
7	HRV	Sugar beet (BEAVA)	F	BBBAN, GGGAN	spraying (broadcast, overall)	10-18 B1: 10-14 B2: 12-18	a) B1: 1 B2: 1 b) 2	B1: - B2: - 10 d after B1	a) B1: 0.5 B2: 0.5 b) 1	a) FSN 25 + TCM 15 b) FSN 50 + TCM 30	100-300	as per growth stage	-
8	ESP	Sugar beet (BEAVA) Fodder beet (BEAVC)	F	TTTTDD, GGGAN	spraying (broadcast, overall)	10-18 B1: 10-14 B2: 12-18	a) B1: 1 B2: 1 b) 2	B1: - B2: - 10 d after B1	a) B1: 0.5 B2: 0.5 b) 1	a) FSN 25 + TCM 15 b) FSN 50 + TCM 30	100-300	as per growth stage	-
9	ITA	Sugar beet (BEAVA)	F	AMARE, BRNN, CHEAL, CHEHY, CVCCA, FAGES, FUMOF, GASCI, GALAP, LAMPU, MATCH, MERAN, PAPRH, POLAV, POLCO, POLLA, POLPE, SOLNI, STEME, THLAR, VIOAR, ALOMY, ECHCG, LOLSS, PANMI, POAAN	spraying (broadcast, overall)	10-18 B1: 10-14 B2: 12-18	a) B1: 1 B2: 1 b) 2	B1: - B2: - 10 d after B1	a) B1: 0.5 B2: 0.5 b) 1	a) FSN 25 + TCM 15 b) FSN 50 + TCM 30	100-300	as per growth stage	-
10	PRT	Sugar beet (BEAVA) Fodder beet (BEAVC)	F	TTTTDD, GGGGG	spraying (broadcast, overall)	10-18 B1: 10-14 B2: 12-18	a) B1: 1 B2: 1 b) 2	B1: - B2: - 10 d after B1	a) B1: 0.5 B2: 0.5 b) 1	a) FSN 25 + TCM 15 b) FSN 50 + TCM 30	80-300	as per growth stage	-

11	LTU	Sugar beet (BEAVA) Fodder beet (BEAVC)*	F	ECHCG, POAN, AGRRE, AETCY, BRSNN, CHEAL, GALAP, LAMPU, MATIN, POLCO, POLAN, POLPE, STEME, THLAR, VERAR, VERPE, VIOAR.	spraying (broadcast, overall)	14-18	a) 1 b) 1	-	a) 1 b) 1	a) FSN 50 + TCM 30 b) FSN 50 + TCM 30	100-300	as per growth stage	(*)Use to be extended to fodder beet
12	DNK	Sugar beet (BEAVA) Fodder beet (BEAVC)*	F	AGRRE, ECHCG, POAAN, CHEAL, POLCO, LAMPU, GALAP, VIOAR, POLAV, POLPE, STEME, THLAR, AETCY, BRSNN/BRSNW, MATIN, VERAR, VERPE, ALOMY	spraying (band application)	14-18 (50 cm row spac- ing; 37.5 cm treated area) every 3 years)	a) 1 b) 1	-	a) 1 b) 1	a) FSN 50 + TCM 30 b) FSN 50 + TCM 30	100-300	as per growth stage	(*)Use to be extended to fodder beet
13	DNK	Sugar beet (BEAVA) Fodder beet (BEAVC)*	F	AGRRE, ECHCG, POAAN, CHEAL, POLCO, LAMPU, GALAP, VIOAR, POLAV, POLPE, STEME, THLAR, AETCY, BRSNN/BRSNW, MATIN, VERAR, VERPE, ALOMY	spraying (broadcast, overall)	14-18 (1 application every 3 years)	a) 1 b) 1	-	a) 0.75 b) 0.75	a) FSN 37.5 + TCM 22.5 b) FSN 37.5 + TCM 22.5	100-300	as per growth stage	(*)Use to be extended to fodder beet
14	FIN	Sugar beet (BEAVA) Fodder beet (BEAVC)*	F	ECHCG, POAAN, AGRRE, CHEAL, POLCO, LAMPU, GALAP, VI- OAR, POLAV, POLPE, STEME, THLAR, AETCY, BRSNN/BRSNW, MATIN, VERAR, VERPE	spraying (broadcast, overall)	14-18	a) 1 b) 1	-	a) 1 b) 1	a) FSN 50 + TCM 30 b) FSN 50 + TCM 30	80-300	as per growth stage	(*)Use to be extended to fodder beet
15	SWE	Sugar beet (BEAVA) Fodder beet (BEAVC)*	F	ECHCG, POAAN, CHEAL, POLCO, LAMPU, GALAP, VI- OAR, POLAV, POLPE, STEME, THLAR, AETCY, BRSNN/BRSNW, MATIN, VERAR, VERPE, ALOMY	spraying (broadcast, overall)	10-18	a) 1 b) 1	-	a) 1 b) 1	a) FSN 50 + TCM 30 b) FSN 50 + TCM 30	80-300	as per growth stage	(*)Use to be extended to fodder beet



16	LTU	Sugar beet (BEAVA) Fodder beet (BEAVC)*	F	ECHCG, POAN, AGRRE, AETCY, BRSNN, CHEAL, GALAP, LAMPU, MATIN, POLCO, POLAN, POLPE, STEME, THLAR, VERAR, VERPE, VIOAR	spraying (broadcast, overall)	10-18  B1: 10-14 B2: 12-18	a) B1: 1 B2: 1 b) 2	B1: -- B2: -- 10 d after B1	a) B1: 0.5 B2: 0.5 b) 1	a) FSN 25 + TCM 15 b) FSN 50 + TCM 30	100-300	as per growth stage	(*)Use to be extended to fodder beet
17	DNK	Sugar beet (BEAVA) Fodder beet (BEAVC)	F	AGRRE, ECHCG, POAAN, CHEAL, POLCO, LAMPU, GALAP, VIOAR, POLAV, POLPE, STEME, THLAR, AETCY, BRSNN/BRSNW, MATIN, VERAR, VERPE, ALOMY	spraying (band application)	10-18 (band application (50 cm row spacing; 37.5 cm treated area) every 3 years)  B1: 10-14 B2: 12-18	a) B1: 1 B2: 1 b) 2	B1: -- B2: -- 10 d after B1	a) B1: 0.5 B2: 0.5 b) 1	a) FSN 25 + TCM 15 b) FSN 50 + TCM 30	100-300	as per growth stage	(*)Use to be extended to fodder beet
18	DNK	Sugar beet (BEAVA) Fodder beet (BEAVC)	F	AGRRE, ECHCG, POAAN, CHEAL, POLCO, LAMPU, GALAP, VIOAR, POLAV, POLPE, STEME, THLAR, AETCY, BRSNN/BRSNW, MATIN, VERAR, VERPE, ALOMY	spraying (broadcast, overall)	10-18 (every 3 years)  B1: 10-14 B2: 12-18	a) B1: 1 B2: 1 b) 2	B1: -- B2: -- 10 d after B1	a) B1: 0.375 B2: 0.375 b) 0.75	a) FSN 18.75 + TCM 11.25 b) FSN 37.5 + TCM 22.5	100-300	as per growth stage	(*)Use to be extended to fodder beet
19	FIN	Sugar beet (BEAVA)	F	ECHCG, POAAN, CHEAL, POLCO, LAMPU, GALAP, VI OAR, POLAV, POLPE, STEME, THLAR, AETCY, BRSNN/BRSNW, MATIN, VERAR, VERPE	spraying (broadcast, overall)	10-18  B1: 10-14 B2: 12-18	a) B1: 1 B2: 1 b) 2	B1: -- B2: -- 10 d after B1	a) B1: 0.375 B2: 0.375 b) 0.75	a) FSN 18.75 + TCM 11.25 b) FSN 37.5 + TCM 22.5	80-300	as per growth stage	Use cur- rently regis- tered in Fin- land but BayerCS Finland does not wish to re- register it

20	FIN	Sugar beet (BEAVA) Fodder beet (BEAVC)	F	ECHCG, POAAN, AGRRE, CHEAL, POLCO, LAMPU, GALAP, VIOAR, POLAV, POLPE, STEME, THLAR, AETCY, BRSNN/BRSNW, MATIN, VERAR, VERPE	spraying (broadcast, overall)	10-18  B1: 10-14 B2: 12-18	a) B1: 1 B2: 1 b) 2	B1: – B2: – 10 d after B1	a) B1: 0.5 B2: 0.5 b) 1	a) FSN 25 + TCM 15 b) FSN 50 + TCM 30	80-300	as per growth stage	(*) Use to be extended to fodder beet  
21	SWE	Sugar beet (BEAVA) Fodder beet (BEAVC)	F	ECHCG, POAAN, CHEAL, POLCO, LAMPU, GALAP, VI OAR, POLAV, POLPE, STEME, THLAR, AETCY, BRSNN/BRSNW, MATIN, VERAR, VERPE, ALOMY	spraying (broadcast, overall)	10-18  B1: 10-14 B2: 12-18	a) B1: 1 B2: 1 b) 2	B1: – B2: – 10 d after B1	a) B1: 0.5 B2: 0.5 b) 1	a) FSN 25 + TCM 15 b) FSN 50 + TCM 30	80-300	as per growth stage	(*) Use to be extended to fodder beet  
22	POL	Sugar beet (BEAVA)	F	AETCY, ECHCG, VIOAR, STEME, LAMPU, MATIN, CHEAL, GALAP, POLCO, PO LAV, POLPE, BRSNN, VERPE, THLAR, POAAN, VERAR	spraying (broadcast, overall)	10-18	a) 1 b) 1	–	a) 1 b) 1	a) FSN 50 + TCM 30 b) FSN 50 + TCM 30	100-300	as per growth stage	
23	AUT	Sugar beet (BEAVA)	F	GGGAN, BBBAN	spraying (broadcast, overall)	10-18	a) 1 b) 1	–	a) 1 b) 1	a) FSN 50 + TCM 30 b) FSN 50 + TCM 30	100-300	as per growth stage	
24	BEL	Sugar beet (BEAVA) Fodder beet (BEAVC)	F	TTTMM, TTTDD	spraying (broadcast, overall)	10-18	a) 1 b) 1	–	a) 1 b) 1	a) FSN 50 + TCM 30 b) FSN 50 + TCM 30	100-300	as per growth stage	
25	CZE	Sugar beet (BEAVA)	F	TTTMM, TTTDD	spraying (broadcast, overall)	10-18	a) 1 b) 1	–	a) 1 b) 1	a) FSN 50 + TCM 30 b) FSN 50 + TCM 30	100-300	as per growth stage	
26	HUN	Sugar beet (BEAVA)	F	TTTMM, TTTDD	spraying (broadcast, overall)	10-18	a) 1 b) 1	–	a) 1 b) 1	a) FSN 50 + TCM 30 b) FSN 50 + TCM 30	100-300	as per growth stage	

27	SVK	Sugar beet (BEAVA)	F	GGGAN, BBBAN	spraying (broadcast, overall)	10-18	a) 1 b) 1	-	a) 1 b) 1	a) FSN 50 + TCM 30 b) FSN 50 + TCM 30	100-300	as per growth stage	Use so far not yet reg- istered (emergency authoriza- tion granted)
28	GBR	Sugar beet (BEAVA) Fodder beet (BEAVC)	F	ECHCG, MERAN, POLCO, SOLNI, AMARE, STEME, FUMOF, CHEAL, VIOAR, THLAR, POLAV, CHEPO, CHEHY, POLLA, LAMPU, POLPE, MATCH, BRNN	spraying (broadcast, overall)	14-18	a) 1 b) 1	-	a) 1 b) 1	a) FSN 50 + TCM 30 b) FSN 50 + TCM 30	150-300	as per growth stage	-
29	NLD EU	Sugar beet (BEAVA) Fodder beet (BEAVC)	F	GGGAN, BBBAN	spraying (broadcast, overall)	10-18 March - June	a) 1 b) 1	-	a) 1 b) 1	a) FSN 50 + TCM 30 b) FSN 50 + TCM 30	80-300	as per growth stage	Residues: Critical GAP
30	ROU	Sugar beet (BEAVA)	F	ECHCG, ALOMY, POAAN, PANMI, AMARE, CVCCA, FUMOF, GALAP, LAMPU, MATCH, PAPRH, SOLNI, STEME, VIOAR, THLAR, POLSS, CHESS, LOLSS	spraying (broadcast, overall)	10-18	a) 1 b) 1	-	a) 1 b) 1	a) FSN 50 + TCM 30 b) FSN 50 + TCM 30	200-300	as per growth stage	-
34	IRE	Sugar beet (BEAVA) Fodder beet (BEAVC)	F	ECHCG, POAAN, AMARE, MERAN, POLCO, SOLNI, SINAR, STEME, GALAP, PAPRH, CHEAL, CVCCA, VI- OAR, THLAR, FUMOF, CHEHY, POLAV, POLLA, LAMPU, POLPE, MATCH, CAPBP, BRNN	spraying (broadcast, overall)	10-18	a) 1 b) 1	-	a) 1 b) 1	a) FSN 50 + TCM 30 b) FSN 50 + TCM 30	100-300	as per growth stage	-
32	POL	Sugar beet (BEAVA)	F	AETCY, ECHCG, VIOAR, STEME, LAMPU, MATIN, CHEAL, GALAP, POLCO, PO- LAV, POLPE, BRNN, VERAR, THLAR, POAAN, VERPE	spraying (broadcast, overall)	10-18 B1: 10-12 B2: 12-18	a) B1: 1 B2: 1 b) 2	B1: - B2: - 10 d after B1	a) B1: 0.5 B2: 0.5 b) 1	a) FSN 25 + TCM 15 b) FSN 50 + TCM 30	100-300	as per growth stage	-
33	AUT	Sugar beet (BEAVA)	F	GGGAN, BBBAN	spraying (broadcast, overall)	10-18 B1: 10-14 B2: 12-18	a) B1: 1 B2: 1 b) 2	B1: - B2: - 10 d after B1	a) B1: 0.5 B2: 0.5 b) 1	a) FSN 25 + TCM 15 b) FSN 50 + TCM 30	100-300	as per growth stage	-

34	BEL	Sugar beet (BEAVA), Fodder beet (BEAVC)	F	TTTMM, TTTDD	spraying (broadcast, overall)	10-18  B1: 10-14 B2: 12-18	a) B1: 1 B2: 1 b) 2	B1: - B2: - 10 d after B1	a) B1: 0.5 B2: 0.5 b) 1	a) FSN 25 + TCM 15 b) FSN 50 + TCM 30	100-300	as per growth stage	-
35	CZE	Sugar beet (BEAVA)	F	TTTMM, TTTDD	spraying (broadcast, overall)	10-18  B1: 10-14 B2: 12-18	a) B1: 1 B2: 1 b) 2	B1: - B2: - 10 d after B1	a) B1: 0.5 B2: 0.5 b) 1	a) FSN 25 + TCM 15 b) FSN 50 + TCM 30	100-300	as per growth stage	-
36	SVK	Sugar beet (BEAVA)	F	GGGAN, BBBAN	spraying (broadcast, overall)	10-18  B1: 10-14 B2: 12-18	a) B1: 1 B2: 1 b) 2	B1: - B2: - 10 d after B1	a) B1: 0.5 B2: 0.5 b) 1	a) FSN 25 + TCM 15 b) FSN 50 + TCM 30	100-300	as per growth stage	Use so far not yet reg- istered (emergency authoriza- tion granted)
37	NLD EU	Sugar beet (BEAVA) Fodder beet (BEAVC)	F	GGGAN, BBBAN	spraying (broadcast, overall)	10-18  Application 1: BBCH 10-14 (spring, March- June) Application 2: BBCH 12-18 (spring, March- June)  B1: 10-14 B2: 12-18	a) B1: 1 B2: 1 b) 2	B1: - B2: - 10 d after B1	a) B1: 0.5 B2: 0.5 b) 1	a) FSN 25 + TCM 15 b) FSN 50 + TCM 30	80-300	as per growth stage	Residues: Critical GAP
38	ROU	Sugar beet (BEAVA)	F	ECHCG, ALOMY, POAAN, PANMI, AMARE, CVCCA, FUMOF, GALAP, LAMPU, MATCH, PAPRH, SOLNI, STEME, VIOAR, THLAR, POLSS, CHESS, LOLSS	spraying (broadcast, overall)	10-18  B1: 10-14 B2: 12-18	a) B1: 1 B2: 1 b) 2	B1: - B2: - 10 d after B1	a) B1: 0.5 B2: 0.5 b) 1	a) FSN 25 + TCM 15 b) FSN 50 + TCM 30	200-300	as per growth stage	-
39	HUN	Sugar beet (BEAVA)	F	TTTMM, TTTDD	spraying (broadcast, overall)	10-18  B1: 10-14 B2: 12-18	a) B1: 1 B2: 1 b) 2	B1: - B2: - 10 d after B1	a) B1: 0.5 B2: 0.5 b) 1	a) FSN 25 + TCM 15 b) FSN 50 + TCM 30	200-300	as per growth stage	-

40	IRE	Sugar beet (BEAVA) Fodder beet (BEAVC)	F	ECHCG, POAAN, AMARE, MERAN, POLCO, SOLNI, SINAR, STEME, GALAP, PAPRH, CHEAL, CVCCA, VI- OAR, THLAR, FUMOF, CHEHY, POLAV, POLLA, LAMPU, POLPE, MATCH, CAPBP, BRSNN	spraying (broadcast, overall)	10-18  B1: 10-14 B2: 12-18	a) B1: 1 B2: 1 b) 2	B1: - B2: - 10 d after B1	a) B1: 0.5 B2: 0.5 b) 1	a) FSN 25 + TCM 15 b) FSN 50 + TCM 30	100-300	as per growth stage	-
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