

# REGISTRATION REPORT

## Part A

### Risk Management

Product code: GLOB1310aH

Product name(s): Glosset Ace

Chemical active substance:

Aclonifen, 540 g/L,

Flufenacet, 60 g/L

Central Zone

Zonal Rapporteur Member State: Poland

## CORE ASSESSMENT

(authorization)

Applicant: Globachem NV

Submission date: December 2021

MS Finalisation date: 25/08/2022

After commenting: 14/12/2022 corrected 14/04/2023/Revised 21.04.2023 and 28.04.2023 and 15.06.2023

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## Version history

When	What
December 2021	Initial dossier submission by the applicant for approval of new product.
August 2022	First zRMS PL evaluation
December 2022	Corrections made by zRMS PL after commenting round
April 2023	Correction/Revision made by zRMS (Sections: Mammalian Toxicology, Ecotoxicology and Residues)
June 2023	Correction/Revision made by zRMS (Sections: Ecotoxicology - Environmental protection )

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## **PART A**

### **RISK MANAGEMENT**

#### **1 Details of the application**

##### **1.1 Application background**

This application was submitted by Globachem NV in November 2021.

The application was for approval of Glosset Ace (product code: GLOB1310aH), a suspension concentrate containing 540 g/L Aclonifen and 60 g/L of Flufenacet for use as a pre-emergence herbicide in winter cereals for which Poland was designated zRMS and Belgium, Germany, Czech Republic, Hungary, Ireland, Romania, Slovakia and Slovenia cMS.

##### **1.2 Letters of Access**

No Letter of Access is submitted.

##### **1.3 Justification for submission of tests and studies**

The application is for a new product. It 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.

##### **1.4 Data protection claims**

Data protection is claimed in accordance with Article 59 of Regulation (EC) No. 1107/2009 for the new studies of Globachem NV submitted in support of this application and listed in Appendix 4.

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## 2 Details of the authorization decision

### 2.1 Product identity

Product code	GLOB1310aH
Product name in MS	Glosset Ace
Authorization number	/
Function	Herbicide
Applicant	Globachem NV
Active substance(s) (incl. content)	Aclonifen 540 g/L + Flufenacet 60 g/L
Formulation type	Suspension concentrate [SC]
Packaging	0.25, 0.5, 1, 2, 3, 5, 10, 15, 20 L HDPE, HDPE/PA, HDPE/F, HDPE/EVOH - containers
Coformulants of concern for national authorizations	None
Restrictions related to identiy	None
Mandatory tank mixtures	Not applicable
Recommended tank mixtures	Not applicable

### 2.2 Conclusion

The evaluation of the application for Glosset Ace resulted in the decision to grant the authorization for the GAP reported in the present part A paragraph 2.6.

### 2.3 Substances of concern for national monitoring

GLOB1310aH does not contain substances of concern for national monitoring.

### 2.4 Classification and labelling

#### 2.4.1 Classification and labelling under Regulation (EC) No 1272/2008

The following classification is proposed in accordance with Regulation (EC) No 1272/2008:

Hazard class(es), categories:	Skin Sens. 1, Carc. 2, Aquatic Acute 1, Aquatic Chronic 1
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The following labelling information is derived from the classification and to be mentioned in the safety data sheet. The information which is determined for the **label is formatted bold**:

Hazard pictograms:	<b>GHS07, GHS08, GHS09</b>
Signal word:	<b>Warning</b>
Hazard statement(s):	<b>H317, H351, H410</b>
Precautionary statement(s):	<b>P261, P280, P302+P352, P333+P313, <b>P362+P364</b>, P391</b>
Additional labelling phrases:	<b>EUH401: To avoid risks to man and the environment, comply with the instructions for use.</b>
Contains:	<b>aclonifen, flufenacet, 1,2-benzisothiazol-3(2H)-one</b>

See Part C for justifications of the classification and labelling proposals.

#### 2.4.2 Standard phrases under Regulation (EU) No 547/2011

SP1	Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).
SPe3	To protect aquatic organisms:  Use 1-6 (1.5L formulation/ha pre-emergence): - 20 m buffer zone + 20m no spray buffer  Use 7-12 (2.0L formulation/ha pre-emergence): - <b>20 m VFS + 50% drift reduction nozzles</b>

#### 2.4.3 Other phrases (according to Article 65 (3) of the Regulation (EU) No 1107/2009)

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### 2.5 Risk management

#### 2.5.1 Restrictions linked to the PPP

The authorization of the PPP is linked to the following conditions (mandatory labelling):

Operator protection:	
	<b>Protective clothing (work wear – arms, body and legs covered), protective gloves and face/eye protection during mixing, loading and application.</b>
Worker protection:	

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	No PPE required (work wear – arms, body and legs covered). Treated crops should not be re-entered before spray deposits on leaf surfaces have completely dried.
<b>Residents</b> <b>Bystanders</b>	
	<b>≥ 50% drift-reducing nozzles are highly recommended (due to skin sensitising properties of spray dilutions)</b>
Integrated pest management (IPM)/sustainable use:	
	-
Environmental protection	
SP1	Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).
SPe3	To protect <u>aquatic organisms</u> :  Use 1-6 (1.5L formulation/ha pre-emergence): - 20 m buffer zone + 20m no spray buffer  Use 7-12 (2.0L formulation/ha pre-emergence): - <b>20 m VFS + 50% drift reduction nozzles</b>
Other specific restrictions	
	-

The authorization of the PPP is linked to the following conditions (voluntary labelling):

Integrated pest management (IPM)/sustainable use:	
	/

## 2.5.2 Specific restrictions linked to the intended uses

Some of the authorised uses are linked to the following conditions in addition to those listed under point 2.5.1 (mandatory labelling):

Integrated pest management (IPM)/sustainable use:		Relevant for use no.
/	/	/
Environmental protection:		Relevant for use no.
/	/	/



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## 2.6 Intended uses (only NATIONAL GAP; uses evaluated and accepted)

GAP rev. 1.0, date: 2021-12-03

PPP (product name/code): Glosset Ace/GLOB1310aH

Formulation type:

SC <sup>(a, b)</sup>

Active substance 1: Aclonifen

Conc. of as 1:

540 g/L <sup>(c)</sup>

Active substance 2: Flufenacet

Conc. of as 2:

60 g/L <sup>(c)</sup>

Safener: /

Conc. of safener:

NA <sup>(c)</sup>

Synergist: /

Conc. of synergist:

NA <sup>(c)</sup>

Applicant: Globachem NV

Professional use:

☒

Zone(s): Central <sup>(d)</sup>

Non professional

☐

use:

Verified by MS: yes/no

Field of use: herbicide

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Use- No. (e)	Mem- ber state(s)	Crop and/ or situation  (crop destination / purpose of crop)	F, Fn, Fpn G, Gn, Gpn or I	Pests or Group of pests controlled  (additionally: develop- mental stages of the pest or pest group)	Application				Application rate			PHI (days)	Remarks:  e.g. g saf- ener/synergist per ha (i)	zRMS Conclusion (efficacy)
					Method / Kind	Timing / Growth stage of crop & season	Max. num- ber a) per use b) per crop/ season	Min. inter- val between applications (days)	kg or L prod- uct / ha a) max. rate per appl. b) max. total rate per crop/season	g or kg as/ha a) max. rate per appl. b) max. total rate per crop/season	Water L/ha  min / max			
Zonal uses (field or outdoor uses, certain types of protected crops)														
1	PL	Winter Wheat (TRZAW) Winter Barley (HORVW) Winter Rye (SECCW)	F	Well controlled (S): <i>Apera spica-venti</i> , <i>Poa annua</i> , <i>Tripleusperrum inodorum</i> , <i>Papaver rhoeas</i> , <i>Stellaria media</i> , <i>Veronica persica</i> ,)	Normal downward spraying	BBCH 00-09 (Sep-Dec)	a) 1 b) 1	/	a) 1.5 L/ha b) 1.5 L/ha	a) 0.810 kg Aclonifen/ha + 0.090 kg Flufenacet/ha b) 0.810 kg Aclonifen/ha	150-300	Not rele- vant, see applica- tion stage	/	

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		Winter Triticale (TTLWI)		<b>Partially controlled (MS):</b> <i>Veronica hederifolia</i>						+ 0.090 kg Flufenacet/ha				
2	PL	Winter Oat (AVESW) Winter Durum Wheat (TRZDW)	F	Annual weeds (BBBBB)	Normal downward spraying	BBCH 00-09 (Sep-Dec)	a) 1 b) 1	/	a) 1.5 L/ha b) 1.5 L/ha	a) 0.810 kg Aclonifen/ha + 0.090 kg Flufenacet/ha b) 0.810 kg Aclonifen/ha + 0.090 kg Flufenacet/ha	150-300	Not relevant, see application stage	/	
3	PL	Winter Wheat (TRZAW) Winter Barley (HORVW) Winter Rye (SECCW) Winter Triticale (TTLWI)	F	<b>Well controlled (S):</b> <i>Apera spica-venti</i> , <i>Poa annua</i> , <i>Tripleusperrum inodorum</i> , <i>Papaver rhoeas</i> , <i>Stellaria media</i> , <i>Veronica persica</i> , <i>Veronica hederifolia</i> <b>Partially controlled (MS):</b> <i>Alopecurus myosuroides</i> , <i>Galium aparine</i>	Normal downward spraying	BBCH 00-09 (Sep-Dec)	a) 1 b) 1	/	a) 2 L/ha b) 2 L/ha	a) 1.08 kg Aclonifen/ha + 0.120 kg Flufenacet/ha b) 1.08 kg Aclonifen/ha + 0.120 kg Flufenacet/ha	200-300	Not relevant, see application stage	/	
4	PL	Winter Oat (AVESW) Winter Durum Wheat (TRZDW)	F	Blackgrass (ALOMY)	Normal downward spraying	BBCH 00-09 (Sep-Dec)	a) 1 b) 1	/	a) 2 L/ha b) 2 L/ha	a) 1.08 kg Aclonifen/ha + 0.120 kg Flufenacet/ha b) 1.08 kg Aclonifen/ha + 0.120 kg Flufenacet/ha	200-300	Not relevant, see application stage	/	
5	BE DE HU IE RO SI SK	Winter Wheat (TRZAW) Winter Barley (HORVW) Winter Oat (AVESW) Winter Rye (SECCW) Winter Triticale (TTLWI) Winter Durum Wheat	F	<b>Well controlled (S):</b> <i>Apera spica-venti</i> , <i>Poa annua</i> , <i>Myosotis arvensis</i> , <i>Papaver rhoeas</i> , <i>Stellaria media</i> , <i>Veronica persica</i> , <i>Veronica hederifolia</i> , <i>Matricaria chamomilla</i> , <i>Thlaspi arvense</i> <b>Partially controlled (MS):</b> <i>Alopecurus myosuroides</i> , <i>Tripleusperrum inodorum</i>	Normal downward spraying	BBCH 00-09 (Sep-Dec)	a) 1 b) 1	/	a) 1.5 L/ha b) 1.5 L/ha	a) 0.810 kg Aclonifen/ha + 0.090 kg Flufenacet/ha b) 0.810 kg Aclonifen/ha + 0.090 kg Flufenacet/ha	150-300	Not relevant, see application stage	/	

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		(TRZDW)												
6	BE DE HU IE RO SI SK	Winter Wheat (TRZAW) Winter Barley (HORVW) Winter Oat (AVESW) Winter Rye (SECCW) Winter Triticale (TTLWI) Winter Durum Wheat (TRZDW)	F	<b>Well controlled (S):</b> <i>Apera spica-venti</i> , <i>Poa annua</i> , <i>Myosotis arvensis</i> , <i>Tripleusperrum inodorum</i> , <i>Papaver rhoeas</i> , <i>Stellaria media</i> , <i>Veronica persica</i> , <i>Veronica hederifolia</i> , <i>Matricaria chamomilla</i> , <i>Thlaspi arvense</i> <b>Partially controlled (MS):</b> <i>Alopecurus myosuroides</i>	Normal downward spraying	BBCH 00-09 (Sep-Dec)	a) 1 b) 1	/	a) 2 L/ha b) 2 L/ha	a) 1.08 kg Aclonifen/ha + 0.120 kg Flufenacet/ha b) 1.08 kg Aclonifen/ha + 0.120 kg Flufenacet/ha	200-300	Not relevant, see application stage	/	

**Remarks table heading:**

(a) e.g. wettable powder (WP), emulsifiable concentrate (EC), granule (GR)  
 (b) Catalogue of pesticide formulation types and international coding system CropLife International Technical Monograph n°2, 6th Edition Revised May 2008  
 (c) g/kg or g/l

(d) Select relevant  
 (e) Use number(s) in accordance with the list of all intended GAPs in Part B, Section 0 should be given in column 1  
 (f) No authorization possible for uses where the line is highlighted in grey, Use should be crossed out when the notifier no longer supports this use.

**Remarks columns:**

1 Numeration necessary to allow references  
 2 Use official codes/nomenclatures of EU Member States  
 3 For crops, the EU and Codex classifications (both) should be used; when relevant, the use situation should be described (e.g. fumigation of a structure)  
 4 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  
 5 Scientific names and EPPO-Codes of target pests/diseases/ weeds or, when relevant, the common names of the pest groups (e.g. biting and sucking insects, soil born insects, foliar fungi, weeds) and the developmental stages of the pests and pest groups at the moment of application must be named.  
 6 Method, e.g. high volume spraying, low volume spraying, spreading, dusting, drench  
 Kind, e.g. overall, broadcast, aerial spraying, row, individual plant, between the plants - type of equipment used must be indicated.

7 Growth stage at first and last treatment (BBCH Monograph, Growth Stages of Plants, 1997, Blackwell, ISBN 3-8263-3152-4), including where relevant, information on season at time of application  
 8 The maximum number of application possible under practical conditions of use must be provided.  
 9 Minimum interval (in days) between applications of the same product  
 10 For specific uses other specifications might be possible, e.g.: g/m<sup>3</sup> in case of fumigation of empty rooms. See also EPPO-Guideline PP 1/239 Dose expression for plant protection products.  
 11 The dimension (g, kg) must be clearly specified. (Maximum) dose of a.s. per treatment (usually g, kg or L product / ha).  
 12 If water volume range depends on application equipments (e.g. ULVA or LVA) it should be mentioned under "application: method/kind".  
 13 PHI - minimum pre-harvest interval  
 14 Remarks may include: Extent of use/economic importance/restrictions

Column 15: zRMS conclusion.

A	Acceptable
R	Acceptable with further restriction
C	To be confirmed by cMS
N	Not acceptable / evaluation not possible
n.r.	Not relevant for section 3

### 3 Background of authorization decision and risk management

#### 3.1 Physical and chemical properties (Part B, Section 2)

The product GLOB1310aH is a suspension concentrate. All studies have been performed in accordance with the current requirements and the results are deemed to be acceptable. The appearance of the product is that of a yellow opaque, with a faint sweet odour. It is not explosive, has no oxidising properties. The product is not flammable. It has a self-ignition temperature higher than 400°C. It has a pH value around 6.48 at 20 °C; in aqueous solution (1%) it has a pH value around 6.64 at 20 °C.. There is no effect of low and high temperature on the stability of the formulation, since after 7 days at 0 °C and 8 weeks at 40 °C, neither the active ingredient content nor the technical properties were changed. The 2-weeks accelerated temperature test showed the formulation does not change its characteristics. The stability data indicate a shelf life of at least 2 years at ambient temperature when stored in *HDPE*, *HDPE-F*, *HDPE-EVOH* or *HDPE/PA*. Its technical characteristics are acceptable for a *suspension concentrate* formulation.

A 2 years shelf life at ambient temperature is currently ongoing at DNAL (study plan number DNA5851, expected finalized report in October 2022).

The intended concentration of use is 0.67% to 2.% for the high rate (2L formulation in 300 and 100L water/ha, respectively) and 0.5% to 1.5% for the low rate (1.5L formulation in 300 and 100L water/ha, respectively)

#### **Implications for labelling:** none

The phys.-chem. properties of GLOB1310aH (Product name: Glosset Ace) have been determined under GLP and according to test methods internationally recognized such as CIPAC methods, the 'EC methods' (Regulation (EC) No. 440/2008) and OECD methods.

There is no effect of low and high temperature on the stability of the formulation, since after 7 days at 0°C and 8 weeks at 40°C, neither the active ingredient content (Aclonifen and Flufenacet) nor the technical properties were changed.

The 2-weeks accelerated temperature test showed the formulation does not change its characteristics.

The sample appearance and packaging remained unchanged post accelerated storage for eight weeks at 40°C±2°C.

The user properties of the formulation are acceptable for a suspension concentrate (SC) both initially and after storage for 8 weeks at 40°C.

A 2 years shelf life study at ambient temperature is currently ongoing.

**Compliance with FAO specifications:** The product GLOB1310aH complies with the general FAO specifications.

**Compatibility of mixtures:** not applicable as no tank mixtures are mentioned on the label.

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## 3.2 Efficacy (Part B, Section 3)

### 3.2.1 Efficacy data

GLOB1310aH is a new herbicide containing 540 g/L aclonifen and 60 g/L flufenacet. It is formulated as a Suspension Concentrate (SC). The applicant (Globachem N.V.) has submitted this zonal application in order to authorise this product in the Central EU zone. The GAP table shows that the cMS are spread between the Maritime, North-East and South-East EPPO climatic zones. As for the South-East EPPO zone, no data were provided. GLOB1310aH is proposed for use as a pre-emergence (BBCH 00-09) herbicide in winter cereals wheat (TRZAW), durum wheat (TRZDW), barley (HORVW), rye (SECCW), triticale (TTLWI) and oat (AVESW). GLOB1310aH has a proposed maximum individual dose of 2 l/ha with a water volume of 150-300 l/ha. Only 1 application may be made per crop and season. The GAP is identical for cereals across all Member States where authorisation is being requested.

There is no data available from the South-East EPPO zone. Therefore, cMS based on national experience should consider whether presented data from Maritime and North-East EPPO Zone are appropriate to support the registration of GLOB1310aH

#### Preliminary tests

No data were provided. The applicant claims that the active substances aclonifen and flufenacet contained in GLOB1310aH have been authorized for use in different European countries for several years as herbicides on a wide range of crops and as such the herbicidal activity aclonifen and flufenacet are well known. The efficacy data support justifies the ratio of active substances selected. The detailed data showing relevant efficacy ratings for different weed species in individual trials are in section 3.2.3. GLOB1310aH showed at least comparable control and frequently better weed control in winter cereals than standard products. Therefore the inclusion of both active ingredients aclonifen and flufenacet in the formulation GLOB1310aH is fully justified.

#### Minimum effective dose tests - Maritime EPPO zone

To determine the minimum effective dose for the control of weed in winter cereals by GLOB1310aH, the applicant presented data from 29 field trials. The trials submitted to support the MED of GLOB1310aH are the same as the efficacy trials described under section 6.2.3. GLOB1310aH was tested at doses 1,0; 1,2 and 1,5 L/ha was compared with the full recommended rate of 2 L/ha of GLOB1310aH, under EPPO standard PP 1/225 'Minimum effective dose'. A clear dose-response was observed for *Alopecurus myosuroides* and *Tripleusperrum inodorum*. On the other hand almost all tested weeds were sufficiently controlled with two application rates, the full application rate of 2 L/ha and a reduced application rate of 1,5 L/ha. A marked dosage response was observed for *Papaver rhoeas*, *Veronica persica*, *Veronica hederifolia* and *Matricaria chamomilla*. For these weeds the lower dosage rate (1,5 L/ha) provided slightly inferior but still good control and the increase of the dosage rate to the full application rate of 2 L/ha lead to very good control. The justification of the proposed application rate of 2 L/ha will be accepted.

#### Minimum effective dose tests - North-East EPPO zone

To determine the minimum effective dose for the control of weed in winter cereals by GLOB1310aH, the applicant presented data from 11 field trials. The trials submitted to support the MED of GLOB1310aH are the same as the efficacy trials described under section 6.2.3. GLOB1310aH was tested at doses 1; 1,2 and 1,5 L/ha was compared with the full recommended rate of 2 L/ha of GLOB1817H, under EPPO standard PP 1/225 'Minimum effective dose'. No clear dose-response was observed for all tested weeds except for *Veronica hederifolia*, application rates 1,5 and 2 l/ha provided similar very good control of the tested weeds. The justification of the proposed application rate of 2 L/ha will be accepted.

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### Efficacy tests - Maritime EPPO zone

Data were obtained from a total of 29 trials in winter cereals, conducted between 2018 and 2020, to assess the effectiveness of GLOB1310aH for control of annual grasses and broadleaved weeds in winter cereals wheat (20) (TRZAW), barley (6)(HORVW), rye (1)(SECCW), and triticale (2) (TTLWI).

All trials have been carried out according to EPPO Standards EPPO PP 1/152 (4), 1/135 (4), 1/181 (4), 1/225(2) and 1/93(3) with the principles of Good Experimental Practice (GEP). Trials were undertaken either in the Czech Republic, Northern France, Germany or the United Kingdom. GLOB1310aH is proposed for use as a pre-emergence (BBCH 00-09) herbicide and was once applied at the full intended application rates of 1,5 or 2 L/ha. This product was applied with a water volume of 200-400 l/ha.

No trials were conducted in winter durum wheat (TRZDW) or winter oat (AVESW). Since application was carried out at early crop stages (BBCH 00-09), differences in efficacy are not expected and extrapolation from other presented crops is possible.

The results of GLOB1310aH at 1,5 or 2 l/ha application rates for the Maritime EPPO zone for the control of annual grasses and dicot weeds in winter cereals as follows:

Well controlled (S):	<i>Apera spica-venti</i> , <i>Poa annua</i> , <i>Myosotis arvensis</i> , <i>Tripleuspermum inodorum</i> , <i>Papaver rhoeas</i> , <i>Stellaria media</i> , <i>Veronica persica</i> , <i>Veronica hederifolia</i> , <i>Matricaria chamomilla</i> , <i>Thlaspi arvense</i>
Partially controlled (MS) at 2 l/ha:	<i>Alopecurus myosuroides</i>
Partially controlled (MS) at 1,5 l/ha:	<i>Alopecurus myosuroides</i> , <i>Tripleuspermum inodorum</i>
Insufficiently controlled:	<i>Galium aparine</i> , <i>Viola arvensis</i> , <i>Fumaria officinalis</i> , <i>Avena fatua</i> , <i>Senecio vulgaris</i>

### Efficacy tests - North East EPPO zone

A total of 11 trials were carried out in the North-East EPPO Zone to evaluate the efficacy of GLOB1817H for the control of weeds on winter wheat (5), winter barley (2), winter triticale (2), and winter rye (2). Those trials have been conducted between 2018 and 2019 in Poland. Additionally, those trials were combined with the results of the German and Czech trials of winter wheat (7), winter barley (2), winter triticale (2) and winter rye (1). All trials have been carried out according to EPPO Standards EPPO PP 1/152 (4), 1/135 (4), 1/181 (4), 1/225(2) and 1/93(3) with the principles of Good Experimental Practice (GEP). GLOB1310aH is proposed for use as a pre-emergence (BBCH 00-09) herbicide and was once applied at the full intended application rates of 1,5 or 2 L/ha. This product was applied with a water volume of 200-400 l/ha. No trials were conducted in winter durum wheat (TRZDW) or winter oat (AVESW). Since application was carried out at early crop stages (BBCH 00-09), differences in efficacy are not expected and extrapolation from other presented crops is possible.

The results of GLOB1310aH at 1,5 or 2 l/ha application rates for the North-East EPPO zone for the control of annual grasses and dicot weeds in winter cereals as follows:

Well controlled (S) at 1,5 or 2 l/ha:	<i>Apera spica-venti</i> , <i>Poa annua</i> , <i>Tripleuspermum inodorum</i> , <i>Papaver rhoeas</i> , <i>Stellaria media</i> , <i>Veronica persica</i> , <i>Veronica hederifolia</i>
Partially controlled (MS) at 2 l/ha:	<i>Alopecurus myosuroides</i> , <i>Galium aparine</i>
Partially controlled (MS) at 1,5 l/ha:	<i>Alopecurus myosuroides</i> , <i>Veronica hederifolia</i>
Insufficiently controlled at 1,5 l/ha:	<i>Galium aparine</i>
Insufficiently controlled:	<i>Viola arvensis</i> , <i>Brassica napus</i> , <i>Centaurea cyanus</i> ,

### 3.2.2 Information on the occurrence or possible occurrence of the development of resistance

The applicant addresses all points of EPPO Standard PP 1/213 to evaluate the possible actual risk of resistance to GLOB1310aH. The applicant states that since no resistance has been observed to acifluorfen, which is considered the essential active ingredient for the control of resistant weeds, the addition of flufenacet makes the occurrence of resistance to GLOB1310aH very unlikely. This combination of active substances will also be effective against weeds that are already resistant to flufenacet. Because the product is only applied once per year before there is a very limited selection pressure. This makes resistance unlikely

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to occur. Overall, zRMS considers that the risk of developing resistance to aclonifen and flufenacet as a result of the proposed use of GLOB1310aH is low to moderate. The risk is primarily due to the inherent risk of certain target weeds. In view of this risk, an overall strategy to prevent and manage such resistance should be adopted in accordance with the HRAC.

### **3.2.3 Adverse effects on treated crops**

#### **Phytotoxicity to host crop**

All trials have been carried out according to EPPO Standards PP1/135, PP1/152, PP1/181 and PP1/093, in accordance with GEP. Phytotoxicity in cereals was assessed in all efficacy trials. In addition, it was assessed in 80 specific crop safety trials conducted between 2018 and 2019 in the Czech Republic, Germany, northern part of France, the Netherlands, Belgium and the United Kingdom (46 trials belonging to the Maritime EPPO zone), in Poland (34 trials belonging to the North-East EPPO Zone). The applicant also provided supporting data from trials carried out with an analogous formulation GLOB1310H (Aclonifen 600 SC + Flufenacet 60 SC) which was tested in some selectivity trials contains a higher concentration of the active substance aclonifen than GLOB1310aH (600 g/L vs. 540 g/L aclonifen) in an otherwise identical formulation, these treatments can therefore be considered worst-case. This approach is considered to be acceptable.

#### **Phytotoxicity to host crop-Maritime EPPO zone**

##### **Winter barley**

Phytotoxicity was evaluated in 6 efficacy trials and 12 weed free selectivity trials. Crop phytotoxicity symptoms were seen in 5 selectivity trials and two efficacy trials in winter barley. The average yield for all trials where GLOB1310aH caused phytotoxic symptoms was calculated and at N was 100.8% relative to untreated, and at 2N it was 85.3%. The zRMS considers that these values indicate that the phytotoxicity did not affect the yield at the recommended dose rate of 2 l/ha.

##### **Winter rye**

Phytotoxicity was evaluated in 1 efficacy trial and 10 weed free selectivity trials. Crop phytotoxicity symptoms were seen in 8 selectivity trials in winter rye. The average yield for all trials was calculated where GLOB1310aH caused phytotoxic symptoms and at N was 97,9% relative to the untreated and at 2N it was 98,9%. Overall, it may be considering that these values indicate that the phytotoxicity may slightly affect the winter rye yield.

##### **Winter wheat**

Phytotoxicity was evaluated in 20 efficacy trials and 12 weed free selectivity trials. Crop phytotoxicity symptoms were seen in 6 selectivity trials and two efficacy in winter wheat. The average yield for all trials was calculated where GLOB1310aH caused phytotoxic symptoms and at N was 99,0% relative to the untreated and at 2N it was 101,6%. Overall, it may be considering that these values indicate that the may slightly affect the winter wheat yield.

##### **Winter triticale**

Phytotoxicity was evaluated in 2 efficacy trials and 11 weed free selectivity trials. Crop phytotoxicity symptoms were seen in 3 selectivity trials in winter triticale. The average yield for all trials was calculated where GLOB1310aH caused phytotoxic symptoms and at N was 102,3% relative to the untreated and at 2N it was 101,6%. Overall, it may be considering that these values indicate that the phytotoxicity did not affect the winter triticale yield.

##### **Winter durum wheat**

No phytotoxic effects were observed in any of the trials, even at double the maximum required dose. It



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should be noted that only one trial was conducted in the EPPO Maritime zone and the other five trials in the EPPO Mediterranean zone. Therefore, concerned CMS, based on their national experience, should consider whether the data presented are representative and can be accepted.

**General conclusion:** Due to phytotoxicity effects in most cereal crops, extrapolation from other cereal crops is not possible. A label restriction regarding phytotoxicity should be addressed on the label.

#### **Phytotoxicity to host crop - North-East EPPO zone**

##### **Winter barley**

Phytotoxicity was evaluated in all efficacy trials and 12 weed free selectivity trials. The trials were conducted in Poland (8), the Czech Republic (3), and Germany (1). Crop phytotoxicity symptoms were seen in 4 selectivity trials and one efficacy trial in winter barley. There were generally no reductions or were slight reductions in the yield in these trials, with the exception being 67,6% yield at N in trial KCP 6.4-142 (PL). Overall, it may be considering that these values indicate that the phytotoxicity may affect the winter barley yield.

##### **Winter rye**

Phytotoxicity was evaluated in all efficacy trials and 10 weed free selectivity trials. The trials were conducted in Poland. Crop phytotoxicity symptoms were seen in 6 selectivity trials and one in efficacy trial in winter rye. The average yield for all trials was calculated where GLOB1310aH caused phytotoxic symptoms and at N was 101.0% relative to the untreated and at 2N it was 95,7%. Overall, it may be considering that these values indicate that the phytotoxicity did not affect the winter rye yield.

##### **Winter wheat**

Phytotoxicity was evaluated in all efficacy trials and 8 weed free selectivity trials. The trials were conducted in Poland. Crop phytotoxicity symptoms were seen in 3 selectivity trials in winter wheat.

The average yield for all trials was calculated where GLOB1310aH caused phytotoxic symptoms and at N was 101.4% relative to the untreated and at 2N it was 95,2%. Overall, it may be considering that these values indicate that the phytotoxicity did not affect the winter wheat yield.

##### **Winter triticale**

Phytotoxicity was evaluated in all efficacy trials and 8 weed free selectivity trials. The trials were conducted in Poland. Crop phytotoxicity symptoms were seen in one selectivity trial in winter triticale. The mean yields for trial KCP 6.4-03 (PL) where GLOB1310aH caused phytotoxic symptoms were 100,5% at N relative to untreated and 92,9 % at 2N. Overall, it may be considering that these values indicate that the phytotoxicity did not affect the winter triticale yield.

**General conclusion:** Due to phytotoxicity effects in most cereal crops, extrapolation from other cereal crops is not possible. A label restriction regarding phytotoxicity should be addressed on the label.

#### **Effects on the quality of plants and plant products**

Data have shown that neither the proposed dose of GLOB1310aH nor 2N are likely to have a significant negative impact on the HLW or the moisture content of winter cereals. Therefore, the zRMS considers that the proposed uses of GLOB1310aH are unlikely to have a significant negative impact on quality.

#### **Effects on transformation processes**

EPPO PP 1/243 states that where residues are undetectable, a reasoned case may be sufficient to address this point. The applicant stated that no detectable residues of acetonitrile or flufenacet were detected on any crop. Given that the application of GLOB1310aH is performed very early on in the growing season,



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therefore, the zRMS considers that the proposed uses of the test product are unlikely to result in detectable residues in harvested grains.

#### **Impact on treated plants or plant products to be used for propagation**

Table 2 in EPPO PP 1/135 states that data on plant parts for propagation are only required for post-emergence foliar-applied herbicides when an application is made at or after inflorescence initiation or where detectable residues occur in a harvested seed. Therefore, it is considered that the proposed uses of GLOB1310aH are unlikely to result in detectable residues in harvested grain. Overall, it is considered that no data on plant parts for propagation are required.

#### **Impact on succeeding crops**

From the results presented and current knowledge, it can be concluded that there is a risk of adverse effects of GLOB1310aH herbicide on succeeding crops. There is a particular risk if cereal crops have to be liquidated. In case of crop failure, for any reason, when the soil is not cultivated corn, wheat, soybean, sunflower, and bush bean can be sown. In case the soil is not cultivated carrots can be sown one year after application. The recommendation proposed by the applicant is acceptable.

### **3.2.4 Observations on other undesirable or unintended side-effects**

#### **Impact on other plants including adjacent crops**

The presented data correspond with the requirements of the EPPO Standard PP 1/256. Results from vegetative vigour test and seedling emergence test were submitted by the applicant. No negative effect of aclonifen and flufenacet on adjacent crops was observed.

### **3.3 Methods of analysis (Part B, Section 5)**

#### **3.3.1 Analytical method for the formulation**

An HPLC-PDA and LC-MS method were submitted to analyse the active ingredient content in the formulation. The method was successfully validated in terms of specificity, linearity, accuracy and repeatability according to SANCO/3030/99 rev. 5.

#### **3.3.2 Analytical methods for residues**

Analytical methods for aclonifen and flufenacet were provided in the EU review of Aclonifen and were considered adequate.

All details with the overall conclusion are included in part B Section 5 of the present draft Registration Report.

### **3.4 Mammalian toxicology (Part B, Section 6)**

#### **3.4.1 Acute toxicity**

No tests were performed on product GLOB1310aH. For the acute oral toxicity, acute dermal toxicity, skin

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and eye irritation and skin sensitisation the assessment has been conducted according to Regulation EC 1272/2008. Full details on composition and justification of the resulting classification are provided in part C, of this registration report. The product GLOB1310aH/Glosset Ace must be classified for skin sensitisation as Skin Sens. 1, H317 'May cause an allergic skin reaction' and for carcinogenicity as Carc. 2, H351 'Suspected of causing cancer'.

### 3.4.2 Operator exposure

According to AOEM model calculations, it can be concluded that the exposure to aclonifen and flufenacet of operator wearing work wear (during mixing, loading and application) and gloves during mixing and loading, using GLOB1310aH on cereals at maximum application rate of 2L product/ha is acceptable. The acceptable operator exposure level (sum of % of AOELs for aclonifen and flufenacet < 100%) will not be exceeded under conditions of intended uses and consideration of the above mentioned personal protective equipment (PPE – gloves during M/L). Taking into account CLP classification of the formulation (Skin Sens. 1 and Carc. 2) GLOB1310aH/Glosset Ace and in-use dilutions (Skin Sens. 1) the operator should wear protective clothing, protective gloves and face/eye protection during mixing, loading and application.

### 3.4.3 Worker exposure

There is no unacceptable risk anticipated for the worker wearing adequate work clothing (but no PPE), when re-entering crops (for 2h/d) treated with GLOB1310aH under conditions of intended GAP uses. The acceptable worker exposure level (sum of % of AOELs for aclonifen and flufenacet < 100%) will not be exceeded under conditions of intended uses of the product. The product is applied before the emergence of seedlings (BBCH 00-09 – germination stage of crop). Due to the absence of foliage, exposure of workers towards dislodgeable foliar residues is not considered relevant for this scenario. As there is no need to re-enter the cereals shortly after application, only crop inspection is considered.

### 3.4.4 Bystander and resident exposure

The exposure of resident has been evaluated with the model AOEM, which show an acceptable risk form the proposed uses according to the intended GAP. This evaluation also covers the bystander.

There is no unacceptable risk anticipated for the resident after long-term exposure or bystander after accidental short-term exposure, wearing light clothing, in crops treated with GLOB1310aH under conditions of intended GAP uses. The acceptable resident/bystander (child and adult) exposure level (sum of % of AOELs for aclonifen and flufenacet < 100%) will not be exceeded under conditions of intended uses of the product.

No bystander acute exposure estimation is required since no acute acceptable operator exposure values (AAOELs) have been set for aclonifen and flufenacet, the active substances of a product GLOB1310aH.

However taking into account harmonised classification (CLP) of a.s. aclonifen as Skin Sens. 1A (GCL≥0.1%), the spray dilution is considered as sensitising based on requirements of Regulation (EC) No. 1272/2008. During MS consultations further risk mitigation measures are proposed to protect residents and bystanders, who cannot protect themselves with PPE from the sensitising properties of the spray drift. Therefore at least 50% drift reduction for protection residents and bystanders is recommended on the label.

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### 3.5 Residues and consumer exposure (Part B, Section 7)

#### 3.5.1 Residues

For the applied use of GLOB1310aH in winter cereals new data were submitted by the applicant. According to the available data, the intended uses in winter cereals are considered acceptable for outdoor use (pre-emergence application). The data submitted show that no exceedance of the EU MRL will occur. The uses are considered acceptable.

Root and tuber vegetables are not recommended for sowing as a rotational crops.

#### 3.5.2 Consumer exposure

<i>Aclonifen</i>	
TMDI (% ADI) according to EFSA PRIMo	2 % (based on NL toddler population)
IESTI (% ARfD) according to EFSA PRIMo	Not relevant
<i>Flufenacet</i>	
TMDI (% ADI) according to EFSA PRIMo	88 % (based on NL toddler population)
IESTI (% ARfD) according to EFSA PRIMo	Raw commodity: 9% wheat (children) 5% wheat (adults)  Processed commodity: 8% wheat/milling flour (children) 5% barley/bear (adults)

Based on EFSA PRIMO calculations made to estimate the risk for consumer through diet and other means, it can be concluded that the proposed use of Aclonifen and Flufenacet in the product GLOB1310aH does not lead to an unacceptable risk for consumers.

### 3.6 Environmental fate and behaviour (Part B, Section 8)

No new studies are presented; all data were reviewed in the EU review of Aclonifen and Flufenacet respectively. Appropriate endpoints from the EU review were used to calculate PECs for the active substance in soil, ground water, surface water and air for the intended use patterns.

#### 3.6.1 Predicted environmental concentrations in soil (PEC<sub>soil</sub>)

PEC soil were calculated for aclonifen and flufenacet and its metabolites using the max application rate 2.0l GLOB1310aH /ha and were found to be:

Aclonifen:

Initial PEC<sub>soil</sub>: 1.44 mg/kg

PEC<sub>accumulation</sub> = 1.981 mg/kg

Flufenacet:

Initial PEC<sub>soil</sub> = 0.1600 mg/kg

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FOE-sulfonic acid (M2)  
Initial PEC<sub>soil</sub>: 0.0319 mg/kg  
PEC<sub>accumulation</sub> = 0.0524 mg/kg

FOE-oxalate (M1)  
Initial PEC<sub>soil</sub>: 0.0319 mg/kg  
PEC<sub>accumulation</sub> = 0.0524 mg/kg

### 3.6.2 Predicted environmental concentrations in groundwater (PEC<sub>gw</sub>)

The results of the leaching models show that Aclonifen and Flufenacet leached in acceptable amounts (< 0.1 µg/L) to groundwater in every European scenario. The flufenacet metabolites FOE-sulfonic acid and FOE oxalate can move to groundwater at concentrations higher than 0.1 µg/L. Therefore, the relevance assessment of these metabolites was conducted (Section B10) showing that no undue risk is caused by the annual use of GLOB1310aH according to the proposed GAP.

### 3.6.3 Predicted environmental concentrations in surface water (PEC<sub>sw</sub>)

The PEC<sub>sw</sub> values for Aclonifen and Flufenacet were acceptable at STEP 4-FOCUS using appropriate mitigation measures. The results for PEC<sub>sw</sub> and PEC<sub>sed</sub> for the active substance and the formulation (PEC<sub>sw</sub> only) were used for the ecotoxicological risk assessment.

### 3.6.4 Predicted environmental concentrations in air (PEC<sub>air</sub>)

Aclonifen and flufenacet present the low potential of volatilisation as derived from physico-chemical properties. However, the volatilisation experiments available and the estimated photochemical transformation half-life suggests that the environmental concentrations in air and the transport through air are considered negligible.

## 3.7 Ecotoxicology (Part B, Section 9)

### 3.7.1 Effects on terrestrial vertebrates

#### Birds

The TER<sub>a</sub> and TER<sub>lt</sub> values for Aclonifen and Flufenacet are greater than the Annex VI triggers of respectively 10 and 5, indicating that GLOB1310aH presents low acute risk and no unacceptable long-term risk to birds following its application according to the GAP. Therefore, further risk assessments are not required. All TERs considering the toxicity of the mixture are above the Annex VI trigger when using the approach of the LD<sub>50 mix</sub> for acute risk and the one of the TER<sub>mix</sub> for chronic risk. This is in line with the results obtained with each active ingredient separately and indicates low risk of GLOB1310aH for birds.

A risk assessment for effects due to secondary poisoning is required because both active ingredients have of log Pow > 3. The TER<sub>lt</sub> values are greater than the Annex VI trigger of 5 for the earthworm-eating birds,

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indicating that neither Aclonifen nor Flufenacet pose low long-term risk to these birds following application of GLOB1310aH at the proposed rate on winter cereals.

The  $TER_{it}$  values are greater than the Annex VI trigger of 5 for the fish-eating birds, indicating that neither Aclonifen nor Flufenacet pose low long-term risk to these birds following application of GLOB1310aH at the proposed rate on winter cereals. The  $TER_{mix}$  were also assessed and were below the trigger of 5.

### Terrestrial vertebrates (other than birds)

The  $TER_a$  value for aclonifen is higher than the Annex VI trigger value of 10, indicating that GLOB1310aH poses low acute risk to mammals following application according to the proposed use patterns. Long-term exposure to Aclonifen based on the screening step leads to an unacceptable risk ( $TER < 5$ ), so, a Tier I estimate was performed. A tier 2 for chronic risk to mammals has been proposed following EU agreed approach, which lead to an acceptable risk for mammals.

The  $TER_a / TER_{LT}$  values for flufenacet at screening step are higher than the Annex VI trigger value of 10/5 (respectively), indicating that GLOB1310aH poses low acute and chronic risk to mammals following application according to the proposed use patterns.

As GLOB1310aH is a mixture of two active ingredient, the toxicity of the mixture has also been assessed following the EFSA Guidance on birds and mammals. The results indicate acceptable risk of GLOB1310aH for mammals.

A risk assessment for effects due to secondary poisoning is required because both active ingredients have of  $\log Pow > 3$ . For aclonifen and flufenacet, the  $TER_{it}$  values are higher than the Annex VI trigger of 5 for the earthworm-eating mammals in a tier 1.

The  $TER_{it}$  values are greater than the Annex VI trigger of 5 for the fish-eating mammals, indicating that neither Aclonifen nor Flufenacet pose undue long-term risk to these mammals following application of GLOB1310aH at the proposed application rate.

### 3.7.2 Effects on aquatic species

The aquatic risk assessment has been performed for Aclonifen, for Flufenacet, for the relevant metabolites and finally for the mixture of both active substances.

The risk assessment for the mixture has been addressed following the EFSA guidance (2013) for each species.

To protect aquatic organisms the following mitigation measures has to be respected:

Use 1-6 (1.5L formulation/ha pre-emergence):

- 20 m buffer zone + 20m vegetated filter strip

Use 7-12 (2.0L formulation/ha pre-emergence):

- 20 m VFS + 50% drift reduction nozzles

### **3.7.3 Effects on bees**

All hazard quotients are below the trigger value proposed by EFSA Guidance and EPPO scheme. Therefore, a low acute and long-term risk to honey bees and bumble bees is expected from the application of GLOB1310aH on winter cereals.

### **3.7.4 Effects on other arthropod species other than bees**

The in- and off-field risks for the non-target arthropods *Aphidius rhopalosiphi*, *Typhlodromus pyri*, *Aleochara bilineata* and *Poecilus cupreus* are acceptable for the intended uses as described in the GAP of GLOB1310aH on winter cereals.

### **3.7.5 Effects on soil organisms**

All TER values exceed from far their respective triggers, indicating that GLOB1310aH poses a low acute and chronic risk to earthworms and low long-term risks to other soil macro- and mesofauna when applied according to the proposed use rates.

As the PEC<sub>soil</sub> of Aclonifen, flufenacet and relevant metabolite and the formulation are all lower than the concentration at which no significant effects are detected, it can be concluded that the risk GLOB1310aH to soil micro-organisms is acceptable in accordance with all intended uses.

### **3.7.6 Effects on non-target terrestrial plants**

Overall, the risk to non-target terrestrial plants is considered acceptable when the HC5 value was used in the risk assessment. NO undue risk to non-target plants is expected from the use of GLOB1310aH in winter cereals.

### **3.7.7 Effects on other terrestrial organisms (Flora and Fauna)**

Tests on other non-target species are not required.

## **3.8 Relevance of metabolites (Part B, Section 10)**

The flufenacet metabolites FOE-sulfonic acid and FOE-oxalate are expected to leachate to groundwater at concentrations higher than 0.1 µg/L. Thus the relevance assessment of these metabolites was done. The results show that the leachate of metabolites FOE-sulfonic acid and FOE-oxalate into groundwater does not cause undue risk to consumers when exposure via drinking water and food intake is taken into account.

## **4 Conclusion of the national comparative assessment (Art. 50 of Regulation (EC) No 1107/2009)**

Aclonifen and flufenacet are candidates for substitution.

The conclusion of the comparative assessment is that aclonifen and flufenacet are not suitable for substitution. Many alternative molecules are CfS themselves and/or CLP classified, intended to be classified or

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proposed for classification by EFSA. no more than 4 modes of action remain for requested uses of GLOB1310aH, therefore aclonifen and flufenacet cannot be substituted.

**5 Further information to permit a decision to be made or to support a review of the conditions and restrictions associated with the authorization**

No further data required
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## **Appendix 1    Copy of the product authorization**

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## Appendix 2 Copy of the product label

Załącznik do zezwolenia MriRW nr z dnia r.

Posiadacz zezwolenia:

Globachem N.V., Brustem Industriepark, Lichtenberglaan 2019, B-33800 Sint Truiden, Królestwo Belgii,  
tel.: +32-11 785 717, fax: +32-11 681 565, e-mail: globachem@globachem.com

Podmiot wprowadzający środek ochrony roślin na terytorium Rzeczypospolitej Polskiej:.....


### GLOSSET ACE

Środek przeznaczony do stosowania przez użytkowników profesjonalnych

Zawartość substancji czynnej:

aklonifen (związek z grupy dwufenyloeterów) – 540 g/l

flufenacet (związek z grupy oksyacetamidów) – 60 g/l

	
<b>Uwaga</b>	
H317 H351 H410	Może powodować reakcję alergiczną skóry. Podejrzewa się, że powoduje raka. Działa bardzo toksycznie na organizmy wodne, powodując długotrwałe skutki.
EUH401	W celu uniknięcia zagrożeń dla zdrowia ludzi i środowiska, należy postępować zgodnie z instrukcją użycia.
P261 P280 P302+P352 P333+P313  P362+P364 P391	Unikać wdychania pyłu, dymu, gazu, mgły, par, rozpylonej cieczy. Stosować rękawice ochronne, odzież ochronną, <b>ochronę oczu, ochronę twarzy.</b> W PRZYPADKU KONTAKTU ZE SKÓRĄ: umyć dużą ilością wody W przypadku wystąpienia podrażnienia skóry lub wysypki: Zasięgnąć porady, zgłosić się pod opiekę lekarza. <b>Zanieczyszczoną odzież zdjąć i wyprać przed ponownym użyciem.</b> Zebrać wyciek.
Zawiera:	aklonifen, flufenacet, 1,2-benzoizotiazol-3(2H)-on

### OPIS DZIAŁANIA

HERBICYD selektywny, o działaniu kontaktowym, stosowany doglebowo, występującym w formie koncentratu do sporządzania zawiesiny wodnej (SC).

Zgodnie z klasyfikacją HRAC substancja czynna aklonifen zaliczana jest do grupy F3, a substancja czynna flufenacet zaliczana jest do grupy K3.

### DZIAŁANIE NA CHWASTY

Środek zawiera dwie wzajemnie uzupełniające się substancje biologicznie czynne o różnym mechanizmie działania.

Aklonifen zaliczany jest do inhibitorów karotenoidów. Działanie aklonifenu związane jest z hamowaniem dwóch enzymów aktywnych odpowiedzialnych za syntezę chlorofilu oraz syntezę karotenoidów.

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Flufenacet jest herbicydem o działaniu układowym, zaliczanym do inhibitorów syntezy kwasów tłuszczowych o długich łańcuchach.

Środek przeznaczony jest do zwalczania niektórych chwastów jedno- i dwuliściennych przedwiosną oraz w trakcie ich kielkowania w uprawach zbóż ozimych. Środek pozostaje aktywny przez 2-3 miesiące po zabiegu, w związku z czym zwalcza zachwaszczenie wtórne.

#### Dawka 1,5 l/ha

<b>Chwasty wrażliwe</b>	miotła zbożowa, wiechlina roczna, maruna bezwonna, mak polny, gwiazdnica pospolita, przetacznik perski
<b>Chwasty średniowrażliwe</b>	wyczyniec polny, przetacznik bluszczykowy

#### Dawka 2,0 l/ha

<b>Chwasty wrażliwe</b>	miotła zbożowa, wiechlina roczna, maruna bezwonna, mak polny, gwiazdnica pospolita, przetacznik perski, przetacznik bluszczykowy
<b>Chwasty średniowrażliwe</b>	wyczyniec polny, przytulica czepna

### STOSOWANIE ŚRODKA

Środek przeznaczony do stosowania przy użyciu samobieżnych lub ciągnikowych opryskiwaczy polowych.

#### **Pszenica ozima, jęczmień ozimy, żyto ozime, pszenżyto ozime,**

Maksymalna dawka dla jednorazowego zastosowania: 2,0 l/ha.

Zalecana dawka dla jednorazowego zastosowania: 1,5 – 2,0 l/ha.

Termin stosowania: środek stosować po zasiewie, ale przed wschodami rośliny uprawnej. Ziarna zbóż muszą być przykryte warstwą gleby o grubości 3 cm aby uniknąć uszkodzeń rośliny uprawnej.

Zalecana ilość wody: 150-300 l/ha.

Zalecane opryskiwanie: średniokropliste.

Maksymalna liczba zabiegów w sezonie wegetacyjnym: 1.

### ŚRODKI OSTROŻNOŚCI, OKRESY KARENCJI I SZCZEGÓLNE WARUNKI STOSOWANIA

Okres od ostatniego zastosowania środka do dnia zbioru rośliny uprawnej (okres karencji):

Nie wymagany

Okres od ostatniego zastosowania środka do dnia zbioru rośliny uprawnej (okres karencji):

1. Najwyższą skuteczność oraz bezpieczeństwo stosowania dla rośliny uprawnej środek wykazuje przy aplikacji na wilgotną glebę.
2. W przypadku wystąpienia niekorzystnych warunków klimatycznych (niska temperatura, zabieg na suchą glebę, silne opady deszczu lub nadmierne nawadnianie po zabiegu) mogą wystąpić uszkodzenia rośliny uprawnej.
3. Strategia zarządzania odpornością

W celu zminimalizowania ryzyka wystąpienia i rozwoju odporności chwastów na herbicydy należy zgodnie z Dobrą Praktyką Rolniczą:

- postępować ściśle zgodnie ze wskazówkami zawartymi w etykiecie środka ochrony roślin –stosować środek w zalecanej dawce, w zalecanym terminie zapewniającym optymalne zwalczanie chwastów,

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- dostosować dobór środka chwastobójczego oraz decyzji o wykonaniu zabiegu do panującego (ewentualnie potencjalnego) zachwaszczenia, z uwzględnieniem gatunków dominujących i progów szkodliwości,
- stosować rotację herbicydów (substancji czynnych) o różnym mechanizmie działania,
- stosować mieszankę herbicydów (substancji czynnych) o różnym mechanizmie działania,
- stosować w rotacji i/lub mieszaninie herbicydy działające na kilka procesów życiowych chwastów (o różnym mechanizmie działania),
- stosować herbicyd o danym mechanizmie działania tylko 1 raz w ciągu sezonu wegetacyjnego rośliny uprawnej,
- dostosować zabiegi uprawowe do warunków panujących na polu, zwłaszcza do rodzaju i nasilenia chwastów,
- używać różnych metod kontroli zachwaszczenia, w tym zmianowania upraw itp.,
- używać kwalifikowanego materiału siewnego,
- czyścić maszyny rolnicze, aby zapobiec przenoszeniu materiału rozmnożeniowego chwastów na inne stanowiska,
- informować posiadacza zezwolenia o nie satysfakcjonującym zwalczaniu chwastów,
- w celu uzyskania szczegółowych informacji należy się skontaktować z doradcą, posiadaczem zezwolenia lub przedstawicielem posiadacza zezwolenia.

4. Podczas stosowania środka nie dopuścić do:

- znoszenia cieczy użytkowej na sąsiednie rośliny uprawne,
- nakładania się cieczy użytkowej na stykach pasów zabiegowych i uwrociach.

## NASTĘPSTWO ROŚLIN

W przypadku konieczności wcześniejszej likwidacji plantacji opryskiwanej środkiem (w wyniku wymarznienia roślin czy uszkodzenia przez choroby, szkodniki) na polu po wykonaniu uprawy gleby na głębokość 20 cm można uprawiać kukurydzę, pszenicę, fasolę, słonecznik i soję.

## SPORZĄDZANIE CIECZY UŻYTKOWEJ

Przed otwarciem zawartością opakowania wstrząsnąć. Przed przystąpieniem do sporządzania cieczy użytkowej dokładnie ustalić potrzebną jej ilość. Odmierzoną ilość środka wlać do zbiornika opryskiwacza napełnionego częściowo wodą (z włączonym mieszałem) i uzupełnić wodą do potrzebnej ilości. Opryskiwać z włączonym mieszałem. Po wlaściu środka do zbiornika opryskiwacza nie wyposażonego w mieszało hydrauliczne ciecz w zbiorniku mechanicznie wymieszać.

Opróżnione opakowania przepłukać trzykrotnie wodą, a popłuczyny wlać do zbiornika opryskiwacza z cieczą użytkową.

## POSTĘPOWANIE Z RESZTKAMI CIECZY UŻYTKOWEJ I MYCIE APARATURY

Resztki cieczy użytkowej oraz wodę użytą do mycia aparatury należy:

- jeżeli jest to możliwe, po uprzednim rozcieńczeniu zużyć na powierzchni, na której przeprowadzono zabieg, lub
- unieszkodliwić z wykorzystaniem rozwiązań technicznych zapewniających biologiczną degradację substancji czynnych środków ochrony roślin, lub
- unieszkodliwić w inny sposób, zgodny z przepisami o odpadach.

Bezpośrednio po pracy aparaturę dokładnie wymyć. Filtry oraz końcówki opryskiwacza wymyć osobno. Rury oraz dysze wymyć czystą wodą z dodatkiem środka czyszczącego przeznaczonego do czyszczenia opryskiwaczy. Następnie aparaturę przepłukać czystą wodą co najmniej dwukrotnie.

## ŚRODKI OSTROŻNOŚCI DLA OSÓB STOSUJĄCYCH ŚRODEK, PRACOWNIKÓW ORAZ OSÓB POSTRONNYCH

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Przed zastosowaniem środka należy poinformować o tym fakcie wszystkie zainteresowane strony, które mogą być narażone na znoszenie cieczy użytkowej i które zwróciły się o taką informację.

**Podczas stosowania środka użyć 50% redukcji znoszenia cieczy użytkowej.**

Nie jeść, nie pić ani nie palić podczas używania produktu.

Stosować rękawice ochronne oraz odzież ochronną (kombinezon), zabezpieczającą przed oddziaływaniem środków ochrony roślin w trakcie przygotowywania cieczy użytkowej oraz w trakcie wykonywania zabiegu.

Nie wdychać rozpylonej cieczy użytkowej.

Unikać zanieczyszczenia skóry.

Natychmiast zdjąć całą zanieczyszczoną odzież.

Okres od zastosowania środka do dnia, w którym na obszar, na którym zastosowano środek mogą wejść ludzie oraz zostać wprowadzone zwierzęta (okres prewencji):

Nie wchodzić do czasu całkowitego wyschnięcia cieczy użytkowej na powierzchni roślin.

## **ŚRODKI OSTROŻNOŚCI ZWIĄZANE Z OCHRONĄ ŚRODOWISKA NATURALNEGO**

Nie zanieczyszczać wód środkiem ochrony roślin lub jego opakowaniem. Nie myć aparatury w pobliżu wód powierzchniowych. Unikać zanieczyszczania wód poprzez rowy odwadniające z gospodarstw i dróg.

Unikać niezgodnego z przeznaczeniem uwalniania do środowiska.

**Dla dawki 1.5 L/ha:**

W celu ochrony organizmów wodnych konieczne jest wyznaczenie strefy ochronnej o szerokości 20 m w tym zadarnionej strefy ochronnej o szerokości 20 m od zbiorników i cieków wodnych.

**Dla dawki 2.0 L/ha:**

W celu ochrony organizmów wodnych konieczne jest wyznaczenie zadarnionej strefy ochronnej o szerokości 20 m w połączeniu z zastosowaniem rozpylaczy redukujących znoszenie cieczy użytkowej podczas zabiegu o 50% od zbiorników i cieków wodnych.

**W celu ochrony roślin oraz stawonogów niebędących celem działania środka konieczne jest wyznaczenie strefy ochronnej o szerokości 5 m od terenów nieużytkowanych rolniczo.**

## **WARUNKI PRZECHOWYWANIA I BEZPIECZNEGO USUWANIA ŚRODKA OCHRONY ROŚLIN I OPAKOWANIA**

Chronić przed dziećmi.

Środek ochrony roślin przechowywać:

- w oryginalnych opakowaniach,
- w sposób uniemożliwiający kontakt z żywnością, napojami lub paszą, skażenie środowiska oraz dostęp osób trzecich,
- w temperaturze 0 °C - 30°C

Zabrania się wykorzystywania opróżnionych opakowań po środkach ochrony roślin do innych celów.

Niewykorzystany środek przekazać do podmiotu uprawnionego do odbierania odpadów niebezpiecznych.

Opróżnione opakowania po środku zwrócić do sprzedawcy środków ochrony roślin będących środkami niebezpiecznymi.

## **PIERWSZA POMOC**

Antidotum: brak, stosować leczenie objawowe.

W przypadku zanieczyszczenia skóry natychmiast przemyć ją dużą ilością wody.

W przypadku narażenia lub styczości: Zasięgnąć porady/zgłosić się pod opiekę lekarza.

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W razie konieczności zasięgnięcia porady lekarza, należy pokazać opakowanie lub etykietę.

Okres ważności - 2 lata  
Data produkcji - .....  
Zawartość netto - .....  
Nr partii - .....

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## **Appendix 3   Letter of Access**

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## **Appendix 4   Lists of data considered for national authorization**

Tables considered not relevant can be deleted as appropriate.

MS to blacken authors of vertebrate studies in the version made available to third parties/public.

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**List of data submitted by the applicant and relied on**



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Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner
KCP 2.1 2.3.1 2.3.3 2.4.1 2.4.2 2.5.1 2.5.2 2.6.1 2.7.2 2.7.3 2.7.4 2.8.2 2.8.3.1 2.8.3.2 2.8.5.1.2 2.8.7.2	Pomeroy, D.	2020	Determination of storage stability and shelf life specification data for a suspension concentrate formulation containing Aclonifen & Flufenacet stored at 40 °C ± 2 °C for eight weeks, in compliance with good laboratory practice. Laboratory: David Norris Analytical Laboratories Ltd. Study number: DNA5850 GLP Unpublished	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 2.7.5	Pomeroy, D.	ongoing	A 2 years shelf life study at ambient temperature is currently ongoing at DNAL (study plan DNA5851); the results will be provided when available (October 2022).	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 2.2.1-01 (also covers KCP 2.2.2) Filed in Part C	Pomeroy, D.	2021	Theoretical certificate of explosive and oxidizing properties for a suspension concentrate for formulation containing aclonifen and Flufenacet. Laboratory: David Norris Analytical Laboratories Ltd. Study number: Certificate dated No GLP Unpublished	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV

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KCP 5.1.1	Pomeroy, D.	2020	Validation of the Methods of Determination of Aclonifen, Flufenacet and specified impurity in an SC Formulation containng Aclonifen and Flufenacet, in Compliance with Good Laboratory Practice DNA5853 Dvid Norris Analytical Laboratories Ltd, UK GLP Unpublished	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCA 4.2	Winter, O. Graf, H.	2021	Validation of Analytical Methods for the Determination of Aclonifen in Different Matrices of Plant origin S20-07421 (GLC-2018V) Eurofins Agriscience Services, Germany GLP Unpublished	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCA 4.2	Winter, O. Amann, S.	2021	Validation of Analytical Methods for the Determination of Flufenacet in Different Matrices of Plant origin S20-09167 (GLC-2019V) Eurofins Agriscience Services, Germany GLP Unpublished	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCA 4.2	Merdian, H.	2016	Validation of the analytical method for the determination of flufenacet and its metabolites (M1, M2, M5, M7, M9, TFA and TFESA) in surface and drinking water. Study No.: S15-04126 Eurofins Agroscience Service Chem SAS, GLP Unpublished	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Task Force Flufenacet
KCA 4.2	Meseguer, C.	2018	Independent Laboratory Validation of the Analytical Method for the Determination of Flufenacet and its metabolites (M1, M2, M5, M7, M9 and TFESA) in surface and drinking water. S16-070-28 Eurofins Agroscience Services Chem SAS, Germany. GLP Unpublished	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Task Force Flufenacet

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KCA 4.2	Asekunowo, J.	2019	Development and Validation of an Analytical Method for the Determination of Flufenacet and its metabolite M9 in Plasma Study P 4840 G EAG Laboratories, Germany GLP Unpublished	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Task Force Flufenacet
KCP 5.2	Asekubowo, J	2018	Extractability of Flufenacet and its metabolites M1, M2, M4 and M23 from cereal grain Study 3904 g EAG Laboratories GLP Unpublished	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Task Force Flufenacet
KCA 5.8.1	Peroche, A.	2016a	In vitro mammalian chromosome aberration in human lymphocytes of Flufenacet metabolite M2. LEMI Laboratory, Study No.: 2015-FRU-4, GLP Unpublished	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Task Force Flufenacet
KCA 5.8.1	Vinoth, A.	2019	In vitro Mammalian Cell Gene Mutation Test with Flufenacet Sulfonic acid Na salt in Hprt gene using V79 cell line Vanta Bioscience Limited Study Number: 19-046-G GLP Unpublished	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCA 5.8.1	Savineau, C.	2016a	Bacterial reverse mutation test of Flufenacet Metabolite M1 in mutated " <i>Salmonella typhimurium his</i> ". LEMI Laboratory, Study No.: 2015-FRU-1 GLP Unpublished	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Task Force Flufenacet

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KCA 5.8.1	Savineau, C.	2016b	In vitro mammalian cell gene mutation test with flufenacet metabolite M1. LEMI Laboratory, Study No.: 2015-FRU-5, GLP Unpublished	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Task Force Flufenacet
KCA 5.8.1	Peroche, A.	2016b	In vitro chromosome aberration in human lymphocytes of Flufenacet metabolite M1. LEMI Laboratory, Study No.: 2015-FRU-3, GLP Unpublished	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Task Force Flufenacet
KCA 6.3.1	Lakaschus, S.	2021a	Determination of Residues of Aclonifen and Flufenacet and its metabolites in Winter Wheat Fiedl Samples (Grain and Straw) after Application of GLOB1310aH in Northern Europe in 2018-2019 Study No. S20-03945 (GLC-2008) Eurofins Agrosiences Services Chem GmbH GLP Unpublished	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCA 6.3.1	Lakaschus, S.	2021b	Determination of Residues of Aclonifen and Flufenacet and its metabolites in Winter Wheat Fiedl Samples (Grain and Straw) after Application of GLOB1310aH in Southern Europe in 2018-2019 Study No. S20-04012 (GLC-2009) Eurofins Agrosiences Services Chem GmbH GLP Unpublished	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCA section 3	Tabary, F.	2015	Screening of Biological Efficacy of Flufenacet metabolites compared to parent Flufenacet, FRANCE, 2015. Staphyt, Study No.: FTY-16-23370-FR01, GLP/GEP: no Not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Task Force Flufenacet

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KCP 6.2-01	Lopez Alvarez S.	2018	Efficacy and selectivity of GLOB1310aH and Prosulfocarb 900 against weeds applied pre-emergence in winter cereals. 2018 HE-18-A-GLOB1310aH-PRO900-FR02 Promo-Vert FR GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.2-02	Lay E.	2018	Efficacy and visual selectivity of GLOB1310aH and Prosulfocarb 900 against weeds applied pre-emergence in winter cereals. 2018 HE-18-A-GLOB1310aH-PRO900-FR03 Staphyt FR GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.2-03	Ströbele U.	2018	Efficacy and selectivity of GLOB1310aH and Prosulfocarb 900 against weeds applied pre-emergence in winter cereals. 2018 HE-18-A-GLOB1310aH-PRO900-DE04 Quintus GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.2-04	Ströbele U.	2018	Efficacy and selectivity of GLOB1310aH and Prosulfocarb 900 against weeds applied pre-emergence in winter cereals. 2018 HE-18-A-GLOB1310aH-PRO900-DE05 Quintus GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.2-05	Zöllner H.	2018	Efficacy and selectivity of GLOB1310aH and Prosulfocarb 900 against weeds applied pre-emergence in winter cereals. 2018 HE-18-A-GLOB1310aH-PRO900-DE06 Field Research Support DE GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV

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KCP 6.2-06	Zöllner H.	2018	Efficacy and selectivity of GLOB1310aH and Prosulfocarb 900 against weeds applied pre-emergence in winter cereals. 2018 HE-18-A-GLOB1310aH-PRO900-DE07 Field Research Support DE GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.2-07	de Vries H.	2018	Efficacy and selectivity of GLOB1310aH and Prosulfocarb 900 against weeds applied pre-emergence in winter cereals. 2018 HE-18-A-GLOB1310aH-PRO900-NL08 Proeftuin Zwaagdijk GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.2-08	Hruška J.	2018	Efficacy and selectivity of GLOB1310aH and Prosulfocarb 900 against weeds applied pre-emergence in winter cereals. 2018 HE-18-A-GLOB1310aH-PRO900-CZ09 ZS Trutnov GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.2-09	Chris Kay	2018	Efficacy and selectivity of GLOB1310aH and Prosulfocarb 900 against weeds applied pre-emergence in winter cereals. 2018 HE-18-A-GLOB1310aH-PRO900-UK10 Oxford Agricultural Trials GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.2-16	Gobin C.	2018	Efficacy and selectivity of GLOB1310aH, GLOB1318H and PROSULFOCARB 900 CS against weeds applied pre-emergence in winter cereals 2018. HE-18-B-GLOB1310aH-PRO900-FR01 Biotek GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV

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KCP 6.2-17	Chris Kay	2018	Efficacy and selectivity of GLOB1310aH and Prosulfocarb 900 against weeds applied pre-emergence in winter cereals. 2018 HE-18-B-GLOB1310aH-PRO900-UK02 Oxford Agricultural Trials GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.2-18	Zagi H.	2018	Efficacy and selectivity of GLOB1310aH and Prosulfocarb 900 against weeds applied pre-emergence in winter cereals. 2018 HE-18-C-GLOB1310aH-PRO900-HR01 Pest-Pro GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.2-19	Lopez Alvarez S.	2018	Efficacy and selectivity of GLOB1310aH and Prosulfocarb 900 against weeds applied pre-emergence in winter cereals. 2018 HE-18-C-GLOB1310aH-PRO900-FR02 Promo-Vert FR GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.2-20	Degoses S.	2018	Efficacy and selectivity of GLOB1310aH and Prosulfocarb 900 against weeds applied pre-emergence in winter cereals. 2018 HE-18-C-GLOB1310aH-PRO900-IT03 Sagea GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.2-25	Fuman-Fratczak K.	2018	Efficacy and selectivity of GLOB1310aH and Prosulfocarb 900 against weeds applied pre-emergence in winter cereals. 2018 HE-18-D-GLOB1310aH-PRO900-PL01 Agreco GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV

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KCP 6.2-26	Szrama K.	2018	Efficacy and selectivity of GLOB1310aH and Prosulfocarb 900 against weeds applied pre-emergence in winter cereals. 2018 HE-18-D-GLOB1310aH-PRO900-PL02 Staphyt PL GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.2-27	Umiński P.	2018	Efficacy and selectivity of GLOB1310aH and Prosulfocarb 900 against weeds applied pre-emergence in winter cereals. 2018 HE-18-D-GLOB1310aH-PRO900-PL03 Field Research Support PL GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.2-28	Sobiech L.	2018	Efficacy and selectivity of GLOB1310aH and Prosulfocarb 900 against weeds applied pre-emergence in winter cereals. 2018 HE-18-D-GLOB1310aH-PRO900-PL04 UP Poznań GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.2-29	Glazek M.	2018	Efficacy and selectivity of GLOB1310aH and Prosulfocarb 900 against weeds applied pre-emergence in winter cereals. 2018 HE-18-D-GLOB1310aH-PRO900-PL05 IOR Sosnowice GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.2-30	Plawusewski M.	2018	Efficacy and selectivity of GLOB1310aH and Prosulfocarb 900 against weeds applied pre-emergence in winter cereals. 2018 HE-18-D-GLOB1310aH-PRO900-PL06 Eurofins PL GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV



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KCP 6.2-45	Degoses S.	2018	Efficacy and selectivity of GLOB1310aH and Prosulfocarb 900 against weeds applied pre-emergence in winter cereals. 2018 HE-18-G-GLOB1310aH-PRO900-IT03 Sagea GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.2-53	Mareckova J.	2019	Efficacy and selectivity of GLOB1310aH, GLOB1921H, GLOB1925H against weeds applied pre-emergence in winter cereals HE-19-A-GLOB1310aH-1921H-CZ01 Ing. Jitka Mareckova GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.2-54	Tvaruzek L.	2019	Efficacy and selectivity of GLOB1310aH, GLOB1921H, GLOB1925H against weeds applied pre-emergence in winter cereals HE-19-A-GLOB1310aH-1921H-CZ02 ZVU Kromeriz GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.2-55	Laštovičková H.	2019	Efficacy and selectivity of GLOB1310aH, GLOB1921H, GLOB1925H against weeds applied pre-emergence in winter cereals HE-19-A-GLOB1310aH-1921H-CZ03 ZS Trutnov GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.2-56	Schmidt I.	2019	Efficacy and selectivity of GLOB1310aH, GLOB1921H, GLOB1925H against weeds applied pre-emergence in winter cereals HE-19-A-GLOB1310aH-1921H-DE04 Staphyt DE GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV

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KCP 6.2-57	Schmidt I.	2019	Efficacy and selectivity of GLOB1310aH, GLOB1921H, GLOB1925H against weeds applied pre-emergence in winter cereals HE-19-A-GLOB1310aH-1921H-DE05 Staphyt DE GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.2-58	Zöllner H.	2019	Efficacy and selectivity of GLOB1310aH, GLOB1921H, GLOB1925H against weeds applied pre-emergence in winter cereals HE-19-A-GLOB1310aH-1921H-DE06 Field Research Support DE GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.2-59	Zöllner H.	2019	Efficacy and selectivity of GLOB1310aH, GLOB1921H, GLOB1925H against weeds applied pre-emergence in winter cereals HE-19-A-GLOB1310aH-1921H-DE07 Field Research Support DE GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.2-60	Lay E.	2019	Efficacy and selectivity of GLOB1310aH, GLOB1921H, GLOB1925H against weeds applied pre-emergence in winter cereals HE-19-A-GLOB1310aH-1921H-FR08 Staphyt FR GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.2-62	Negrini P.	2019	Efficacy and selectivity of GLOB1310aH, GLOB1921H, GLOB1925H against weeds applied pre-emergence in winter cereals HE-19-A-GLOB1310aH-1921H-FR10 Antedis GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV

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KCP 6.2-63	de Vries H.	2019	Efficacy and selectivity of GLOB1310aH, GLOB1921H, GLOB1925H against weeds applied pre-emergence in winter cereals HE-19-A-GLOB1310aH-1921H-NL11 Proeftuin Zwaagdijk GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.2-64	Venard H.	2019	Efficacy and selectivity of GLOB1310aH, GLOB1921H, GLOB1925H against weeds applied pre-emergence in winter cereals HE-19-A-GLOB1310aH-1921H-BE12 Staphyt BE GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.2-65	Sørensen S.	2019	Efficacy and selectivity of GLOB1310aH, GLOB1921H, GLOB1925H against weeds applied pre-emergence in winter cereals HE-19-A-GLOB1310aH-1912H-DK13 Aarhus University GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.2-66	Chris Kay	2019	Efficacy and selectivity of GLOB1310aH, GLOB1921H, GLOB1925H against weeds applied pre-emergence in winter cereals HE-19-A-GLOB1310aH-1921H-UK14 Oxford Agricultural Trials GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.2-67	Chris Kay	2019	Efficacy and selectivity of GLOB1310aH, GLOB1921H, GLOB1925H against weeds applied pre-emergence in winter cereals HE-19-A-GLOB1310aH-1921H-UK15 Oxford Agricultural Trials GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV

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KCP 6.2-68	Zagi H.	2019	Efficacy and selectivity of GLOB1310aH, GLOB1921H, GLOB1925H against weeds applied pre-emergence in winter cereals HE-19-B-GLOB1310aH-1921H-HR01 Pest-Pro GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.2-69	Camuñez S.	2019	Efficacy and selectivity of GLOB1310aH, GLOB1921H, GLOB1925H against weeds applied pre-emergence in winter cereals HE-19-B-GLOB1310aH-1921H-ES02 Staphyt ES GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.2-70	Lay E.	2019	Efficacy and selectivity of GLOB1310aH, GLOB1921H, GLOB1925H against weeds applied pre-emergence in winter cereals HE-19-B-GLOB1310aH-1921H-FR03 Staphyt FR GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.2-71	Degoses S.	2019	Efficacy and selectivity of GLOB1310aH, GLOB1921H, GLOB1925H against weeds applied pre-emergence in winter cereals HE-19-B-GLOB1310aH-1921H-IT04 Sagea GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.2-72	Forte G.	2020	Efficacy and selectivity of GLOB1310aH, GLOB1921H, GLOB1925H against weeds applied pre-emergence in winter cereals. HE-19-B-GLOB1310aH-1921H-IT05 Agrigeos GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV

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KCP 6.2-73	Fuman-Fratczak K.	2019	Efficacy and selectivity of GLOB1310aH, GLOB1921H, GLOB1925H against weeds applied pre-emergence in winter cereals HE-19-C-GLOB1310aH-1921H-PL01 Agreco GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.2-74	Szrama K.	2019	Efficacy and selectivity of GLOB1310aH, GLOB1921H, GLOB1925H against weeds applied pre-emergence in winter cereals HE-19-C-GLOB1310aH-1921H-PL02 Staphyt PL GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.2-75	Kozłowski J.	2019	Efficacy and selectivity of GLOB1310aH, GLOB1921H, GLOB1925H against weeds applied pre-emergence in winter cereals HE-19-C-GLOB1310aH-1921H-PL03 Syntech GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.2-76	Umiński P.	2019	Efficacy and selectivity of GLOB1310aH, GLOB1921H, GLOB1925H against weeds applied pre-emergence in winter cereals HE-19-C-GLOB1310aH-1921H-PL04 Field Research Support PL GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.2-77	Szrama K.	2019	Efficacy and selectivity of GLOB1310aH, GLOB1921H, GLOB1925H against weeds applied pre-emergence in winter cereals HE-19-C-GLOB1310aH-1921H-PL05 Staphyt PL GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV

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KCP 6.4-01	Szrama K.	2017	Selectivity of GLOB1310H, GLOB1312H applied pre-emergence in winter cereals. HS-17-A-ACNMIX-PL01 Staphyt PL GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-02	Szrama K.	2017	Selectivity of GLOB1310H, GLOB1312H applied pre-emergence in winter cereals. HS-17-A-ACNMIX-PL02 Staphyt PL GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-03	Szrama K.	2017	Selectivity of GLOB1310H, GLOB1312H applied pre-emergence in winter cereals. HS-17-A-ACNMIX-PL03 Staphyt PL GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-04	Szrama K.	2017	Selectivity of GLOB1310H, GLOB1312H applied pre-emergence in winter cereals. HS-17-A-ACNMIX-PL04 Staphyt PL GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-05	Umiński P.	2017	Selectivity of herbicide mixtures applied in pre-emergence in winter cereals. Poland 2017 HS-17-MULTIV-PL01 pre Field Research Support PL GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV

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KCP 6.4-07	Bourgeois X.	2017	Selectivity of GLOB1310H, GLOB1312H applied pre-emergence in winter cereals. HS-17-B-ACNMIX-BE01 Staphyt BE GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-08	D'Haunaut T.	2017	Selectivity of GLOB1310H, GLOB1312H applied pre-emergence in winter cereals. HS-17-B-ACNMIX-FR02 Staphyt FR GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-09	D'Haunaut T.	2017	Selectivity of GLOB1310H, GLOB1312H applied pre-emergence in winter cereals. HS-17-B-ACNMIX-FR03 Staphyt FR GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-10	Szrama K.	2017	Selectivity of GLOB1310H, GLOB1312H applied pre-emergence in winter cereals. HS-17-B-ACNMIX-DE04 Staphyt DE GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-11	D'Haunaut T.	2017	Selectivity of GLOB1310H, GLOB1312H applied pre-emergence in winter cereals. HS-17-B-ACNMIX-FR05 Staphyt FR GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV

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KCP 6.4-12	Bourgeois X.	2017	Selectivity of GLOB1310H, GLOB1312H applied pre-emergence in winter cereals. HS-17-B-ACNMIX-BE06 Staphyt BE GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-13	D'Haunaut T.	2017	Selectivity of GLOB1310H, GLOB1312H applied pre-emergence in winter cereals. HS-17-B-ACNMIX-FR07 Staphyt FR GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-14	Schmidt I.	2017	Selectivity of GLOB1310H, GLOB1312H applied pre-emergence in winter cereals. HS-17-B-ACNMIX-DE08 Staphyt DE GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-27	Furman-Fratczak K.	2018	Selectivity of GLOB1310aH, Prosulfocarb 900 and GLOB1818H applied pre-emergence in winter cereals. HS-18-A-GLOB1310aH-PRO900-PL01 Agreco GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-28	Szrama K.	2018	Selectivity of GLOB1310aH, Prosulfocarb 900 and GLOB1818H applied pre-emergence in winter cereals. KSA-19-37731-PL01 NBA Staphyt PL GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV



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KCP 6.4-29	Szrama K.	2018	Selectivity of GLOB1310aH, Prosulfocarb 900 and GLOB1818H applied pre-emergence in winter cereals. KSA-19-37731-PL02 NBA Staphyt PL GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-30	Springer M.	2018	Selectivity of GLOB1310aH and Boxer 800 EC applied pre-emergence in winter cereals HS-18-A-GLOB1310aH-PRO900-PL04 Syntech GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-35	Ćwiek M.	2018	Selectivity of GLOB1310aH, Prosulfocarb 900 and GLOB1818H applied pre-emergence in winter cereals. HS-18-B-GLOB1310aH-PRO900-PL01 Syntech GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-36	Umiński P.	2018	Selectivity of GLOB1310aH, Prosulfocarb 900 and GLOB1818H applied pre-emergence in winter cereals. HS-18-B-GLOB1310aH-PRO900-PL02 Field Research Support PL GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-37	Szrama K.	2018	Selectivity of GLOB1310aH applied pre-emergence in winter cereals. KSA-19-37732-PL01 AGA Staphyt PL GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV

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KCP 6.4-38	Kasperek M.	2018	Selectivity of GLOB1310aH applied pre-emergence in winter cereals. HS-18-B-GLOB1310aH-PRO900-PL04 Syntech GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-39	Umiński P.	2018	Selectivity of GLOB1310aH, Prosulfocarb 900 and GLOB1818H applied pre-emergence in winter cereals. HS-18-B-GLOB1310aH-PRO900-PL05 Field Research Support PL GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-40	Szrama K.	2018	Selectivity of GLOB1310aH applied pre-emergence in winter cereals. KSA-19-37732-PL02 IDA Staphyt PL GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-41	Świtkowski M.	2018	Selectivity of GLOB1310aH, Prosulfocarb 900 and GLOB1818H applied pre-emergence in winter cereals. HS-18-B-GLOB1310a-PRO900-PL07 Syntech GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-42	Umiński P.	2018	Selectivity of GLOB1310aH, Prosulfocarb 900 and GLOB1818H applied pre-emergence in winter cereals. HS-18-B-GLOB1310aH-PRO900-PL08 Field Research Support PL GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV

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KCP 6.4-43	Szrama K.	2018	Selectivity of GLOB1310aH applied pre-emergence in winter cereals. KSA-19-37732-PL Staphyt PL GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-44	Umiński P.	2018	Selectivity of GLOB1310aH, Prosulfocarb 900 and GLOB1818H applied pre-emergence in winter cereals. HS-18-B-GLOB1310aH-PRO900-PL10 Field Research Support PL GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-45	Szrama K.	2018	Selectivity of GLOB1310aH applied pre-emergence in winter cereals. KSA-19-37732-PL04 SCI Staphyt PL GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-46	Szrama K.	2018	Selectivity of GLOB1310aH applied pre-emergence in winter cereals. KSA-19-37732-PL05 KMR Staphyt PL GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-59	Chris Kay	2018	Selectivity of GLOB1310aH, Prosulfocarb 900 and GLOB1818H applied pre-emergence in winter cereals. HS-18-C-GLOB1310aH-PRO900-UK01 Oxford Agricultural Trials GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV

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KCP 6.4-60	Lay E.	2018	Selectivity of GLOB1310aH applied pre-emergence in winter cereals. SCZ-19-37733-FR01 Staphyt FR GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-61	de Vries H.	2018	Selectivity of GLOB1310aH applied pre-emergence in winter cereals. HS-18-C-GLOB1310a-PRO900-NL03 Proeftuin Zwaagdijk GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-62	Zöllner H.	2018	Selectivity of GLOB1310aH, Prosulfocarb 900 and GLOB1818H applied pre-emergence in winter cereals. HS-18-C-GLOB1310a-PRO900-DE04 Field Research Support DE GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-63	Gezova V.	2018	Selectivity of GLOB1310aH applied pre-emergence in winter cereals. HS-18-C-GLOB1310aH-PRO900-CZ05 InTec GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-64	Tvaruzek L.	2018	Selectivity of GLOB1310aH, Prosulfocarb 900 and GLOB1818H applied pre-emergence in winter cereals. HS-18-C-GLOB1310aH-PRO900-CZ06 ZVU Kromeriz GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV

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KCP 6.4-65	Lay E.	2018	Selectivity of GLOB1310aH, Prosulfocarb 900 and GLOB1818H applied pre-emergence in winter cereals. SCZ-19-37734-FR01 Staphyt FR GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-66	Lay E.	2018	Selectivity of GLOB1310aH applied pre-emergence in winter cereals. SCZ-19-37735-FR01 Staphyt FR GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-67	Magyaróvári V.	2018	Selectivity of GLOB1310aH applied pre-emergence in winter cereals. HS-18-C-GLOB1310aH-PRO900-DE09-12 Agrartest GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-68	Zöllner H.	2018	Selectivity of GLOB1310aH applied pre-emergence in winter cereals. HS-18-C-GLOB1310a-PRO900-DE10 Field Research Support DE GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-69	Gezova V.	2018	Selectivity of GLOB1310aH applied pre-emergence in winter cereals. HS-18-C-GLOB1310aH-PRO900-CZ11 InTec GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV

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KCP 6.4-70	Tvaruzek L.	2018	Selectivity of GLOB1310aH, Prosulfocarb 900 and GLOB1818H applied pre-emergence in winter cereals. HS-18-C-GLOB1310aH-PRO900-CZ12 ZVU Kromeriz GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-71	Lay E.	2018	Selectivity of GLOB1310aH applied pre-emergence in winter cereals. SCZ-19-37735-FR02 Staphyt FR GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-72	de Vries H.	2018	Selectivity of GLOB1310aH applied pre-emergence in winter cereals. HS-18-C-GLOB1310aH-PRO900-NL14 Proeftuin Zwaagdijk GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-73	Zöllner H.	2018	Selectivity of GLOB1310aH, Prosulfocarb 900 and GLOB1818H applied pre-emergence in winter cereals. HS-18-C-GLOB1310a-PRO900-DE15 Field Research Support DE GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-74	Gezova V.	2018	Selectivity of GLOB1310aH, Prosulfocarb 900 and GLOB1818H applied pre-emergence in winter cereals. HS-18-C-GLOB1310aH-PRO900-CZ16 InTec GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV

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KCP 6.4-75	Tvaruzek L.	2018	Selectivity of GLOB1310aH, Prosulfocarb 900 and GLOB1818H applied pre-emergence in winter cereals. HS-18-C-GLOB1310aH-PRO900-CZ17 ZVU Kromeriz GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-76	Lay E.	2018	Selectivity of GLOB1310aH applied pre-emergence in winter cereals. SCZ-19-37735-FR03 Staphyt FR GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-77	Lay E.	2018	Selectivity of GLOB1310aH applied pre-emergence in winter cereals. SCZ-19-37735-FR04 Staphyt FR GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-78	de Vries H.	2018	Selectivity of GLOB1310aH applied pre-emergence in winter cereals. HS-18-C-GLOB1310aH-PRO900-NL20 Proeftuin Zwaagdijk GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-79	Zöllner H.	2018	Selectivity of GLOB1310aH applied pre-emergence in winter cereals. HS-18-C-GLOB1310a-PRO900-DE21 Field Research Support DE GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV

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KCP 6.4-80	Zöllner H.	2018	Selectivity of GLOB1310aH applied pre-emergence in winter cereals. HS-18-C-GLOB1310a-PRO900-DE22 Field Research Support DE GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-81	Tvaruzek L.	2018	Selectivity of GLOB1310aH, Prosulfocarb 900 and GLOB1818H applied pre-emergence in winter cereals. HS-18-C-GLOB1310aH-PRO900-CZ23 ZVU Kromeriz GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-82	Mareckova J.	2018	Selectivity of GLOB1310aH, Prosulfocarb 900 and GLOB1818H applied pre-emergence in winter cereals. HS-18-C-GLOB1310a-PRO900-CZ24 Ing. Jitka Mareckova GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-109	Zagi H.	2018	Selectivity of GLOB1310aH, Prosulfocarb 900 and GLOB1818H applied pre-emergence in winter cereals. HS-18-D-GLOB1310aH-PRO900-HR01 Pest-Pro GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-110	Zagi H.	2018	Selectivity of GLOB1310aH applied pre-emergence in winter cereals. HS-18-D-GLOB1310aH-PRO900-HR02 Pest-Pro GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV



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KCP 6.4-111	Lay E.	2018	Selectivity of GLOB1310aH applied pre-emergence in winter cereals. SCZ-19-37736-FR01 Staphyt FR GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-112	Lay E.	2018	Selectivity of GLOB1310aH applied pre-emergence in winter cereals. SCZ-19-37736-FR02 Staphyt FR GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-113	Desogus S.	2018	Selectivity of GLOB1310aH applied pre-emergence in winter cereals. Italy HS-18-D-GLOB1310aH-PRO900-IT05 Sagea GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-114	Mazzi F.	2018	Selectivity of GLOB1310aH applied pre-emergence in winter cereals. SCZ-19-37736-IT03 Staphyt IT GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-115	Camuñez S.	2018	Selectivity of GLOB1310aH applied pre-emergence in winter cereals. SCZ-19-37736-ES04 Staphyt ES GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV

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KCP 6.4-116	Camuñez S.	2018	Selectivity of GLOB1310aH applied pre-emergence in winter cereals. SCZ-19-37736-ES05 Staphyt ES GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-134	Hrabovský J.	2019	Selectivity of GLOB1310aH, GLOB1921bH, Prosulfocarb 900 CS and GLOB1818H applied pre-emergence in winter cereals. HS-19-A-GLOB1310aH-1921H-CZ01 ZZS Kujavy GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-135	Camuñez S.	2019	Selectivity of GLOB1310aH, GLOB1921bH, Prosulfocarb 900 CS and GLOB1818H applied pre-emergence in winter cereals. SCZ-19-42535-ES01 Staphyt ES GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-136	Camuñez S.	2019	Selectivity of GLOB1310aH, GLOB1921bH, Prosulfocarb 900 CS and GLOB1818H applied pre-emergence in winter cereals. SCZ-19-42535-ES02 Staphyt ES GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-137	Lay E.	2019	Selectivity of GLOB1310aH, GLOB1921bH, Prosulfocarb 900 CS and GLOB1818H applied pre-emergence in winter cereals. SCZ-19-42535-FR03 Staphyt FR GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV

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KCP 6.4-138	Zagi H.	2019	Selectivity of GLOB1310aH, GLOB1921bH, Prosulfocarb 900 CS and GLOB1818H applied pre-emergence in winter cereals. HS-19-A-GLOB1310aH-1921H-HR05 Pest-Pro GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-139	Mazzi F.	2019	Selectivity of GLOB1310aH, GLOB1921bH, Prosulfocarb 900 CS and GLOB1818H applied pre-emergence in winter cereals. SCZ-19-42535-IT04 Staphyt IT GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-140	de Vries H.	2019	Selectivity of GLOB1310aH, GLOB1921bH, Prosulfocarb 900 CS and GLOB1818H applied pre-emergence in winter cereals. HS-19-A-GLOB1310aH-1921H-NL07 Proeftuin Zwaagdijk GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-141	Umiński P.	2019	Selectivity of GLOB1310aH, GLOB1921bH, Prosulfocarb 900 CS and GLOB1818H applied pre-emergence in winter cereals. HS-19-A-GLOB1310aH-1921H-PL08 Field Research Support PL GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-142	Kozłowski J.	2019	Selectivity of GLOB1310aH, GLOB1921bH, Prosulfocarb 900 CS and GLOB1818H applied pre-emergence in winter cereals. HS-19-A-GLOB1310aH-1921H-PL09 Syntech GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV

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KCP 6.4-150	Umiński P.	2019	Selectivity of GLOB1921bH in SECCW and HORVW HS-19-MULTV-GLOB1921bH-PL01 Field Research Support PL GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-151	Posdiena T.	2019	Selectivity of GLOB1310aH, GLOB1921bH, Prosulfocarb 900 CS and GLOB1818H applied pre-emergence in winter cereals. HS-19-B-GLOB1310aH-1921H-CZ01 ZS Trutnov GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-152	Schmidt I.	2019	Selectivity of GLOB1310aH, GLOB1921bH, Prosulfocarb 900 CS and GLOB1818H applied pre-emergence in winter cereals. SCZ-19-42536-DE01 Staphyt DE GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-154	Umiński P.	2019	Selectivity of GLOB1310aH, GLOB1921bH, Prosulfocarb 900 CS and GLOB1818H applied pre-emergence in winter cereals. HS-19-B-GLOB1310aH-1921H-PL04 Field Research Support PL GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-155	Kmieciak L.	2019	Selectivity of GLOB1310aH, GLOB1921bH, Prosulfocarb 900 CS and GLOB1818H applied pre-emergence in winter cereals. HS-19-B-GLOB1310aH-1921H-PL05 Staphyt PL GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV

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KCP 6.4-156	Kmieciak L.	2019	Selectivity of GLOB1310aH, GLOB1921bH, Prosulfocarb 900 CS and GLOB1818H applied pre-emergence in winter cereals. HS-19-B-GLOB1310aH-1921H-PL06 Staphyt PL GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-165	Trojan Z.	2019	Selectivity of GLOB1310aH, GLOB1921bH, Prosulfocarb 900 CS and GLOB1818H applied pre-emergence in winter cereals. HS-19-C-GLOB1310aH-1921H-CZ01 Zemservis GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-166	Camuñez S.	2019	Selectivity of GLOB1310aH, GLOB1921cH, Prosulfocarb 900 CS and GLOB1818H applied pre-emergence in winter cereals. SCZ-19-42647-ES01 Staphyt ES GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-167	Lay E.	2019	Selectivity of GLOB1310aH, GLOB1921cH, Prosulfocarb 900 CS and GLOB1818H applied pre-emergence in winter cereals. SCZ-19-42647-FR02 Staphyt FR GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-168	Mazzi F.	2019	Selectivity of GLOB1310aH, GLOB1921cH, Prosulfocarb 900 CS and GLOB1818H applied pre-emergence in winter cereals. SCZ-19-42647-IT03 Staphyt IT GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV

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KCP 6.4-169	de Vries H.	2019	Selectivity of GLOB1310aH, GLOB1921cH, Prosulfocarb 900 CS and GLOB1818H applied pre-emergence in winter cereals. HS-19-C-GLOB1310aH-1921H-NL05 Zwaagdijk GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-170	Umiński P.	2019	Selectivity of GLOB1310aH, GLOB1921bH, Prosulfocarb 900 CS and GLOB1818H applied pre-emergence in winter cereals. HS-19-C-GLOB1310aH-1921H-PL06 Field Research Support PL GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-171	Szrama K.	2019	Selectivity of GLOB1310aH, GLOB1921cH, Prosulfocarb 900 CS and GLOB1818H applied pre-emergence in winter cereals. KSA-19-42648-PL01 PDT Staphyt PL GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-174	Zöllner H.	2019	Selectivity of GLOB1310aH, GLOB1921bH, Prosulfocarb 900 CS and GLOB1818H applied pre-emergence in winter cereals. HS-19-D-GLOB1310aH-1921H-DE01 Field Research Support DE GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-175	Junglee S.	2019	Selectivity of GLOB1310aH, GLOB1921cH, Prosulfocarb 900 CS and GLOB1818H applied pre-emergence in winter cereals. HS-19-D-GLOB1310aH-1921H-FR02 Promo-Vert FR GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV

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KCP 6.4-176	Junglee S.	2019	Selectivity of GLOB1310aH, GLOB1921cH, Prosulfocarb 900 CS applied pre-emergence in winter cereals. HS-19-D-GLOB1310aH-1921H-FR03 Promo-Vert FR GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-177	Junglee S.	2019	Selectivity of GLOB1310aH, GLOB1921cH, Prosulfocarb 900 CS applied pre-emergence in winter cereals. HS-19-D-GLOB1310aH-1921H Promo-Vert FR GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-178	Umiński P.	2019	Selectivity of GLOB1310aH, GLOB1921bH, Prosulfocarb 900 CS and GLOB1818H applied pre-emergence in winter cereals. HS-19-D-GLOB1310aH-1921H-PL05 Field Research Support PL GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-179	Kozłowski J.	2019	Selectivity of GLOB1310aH, GLOB1921cH, Prosulfocarb 900 CS and GLOB1818H applied pre-emergence in winter cereals. HS-19-D-GLOB1310aH-1921H-PL06 Syntech GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-184	Camuñez S.	2019	Selectivity of GLOB1310aH, GLOB1921cH, Prosulfocarb 900 CS and GLOB1818H applied pre-emergence in winter cereals. SCZ-19-42649-ES01 Staphyt ES GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV

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KCP 6.4-185	Camuñez S.	2019	Selectivity of GLOB1310aH, GLOB1921cH, Prosulfocarb 900 CS and GLOB1818H applied pre-emergence in winter cereals. SCZ-19-42649-ES02 Staphyt ES GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-186	Lay E.	2019	Selectivity of GLOB1310aH, GLOB1921cH, Prosulfocarb 900 CS and GLOB1818H applied pre-emergence in winter cereals. SCZ-19-42649-FR03 Staphyt FR GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-187	Lay E.	2019	Selectivity of GLOB1310aH, GLOB1921cH, Prosulfocarb 900 CS and GLOB1818H applied pre-emergence in winter cereals. SCZ-19-42649-FR04 Staphyt FR GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-188	Zagi H.	2019	Selectivity of GLOB1310aH, GLOB1921bH, Prosulfocarb 900 CS and GLOB1818H applied pre-emergence in winter cereals. HS-19-E-GLOB1310aH-1921H-HR05 Pest-Pro GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 6.4-189	Mazzi F.	2019	Selectivity of GLOB1310aH, GLOB1921cH, Prosulfocarb 900 CS and GLOB1818H applied pre-emergence in winter cereals. SCZ-19-42649-IT05 Staphyt IT GEP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV



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KCP 6.5-1	Friedemann A.	2021	Effects of GLOB1310aH on seedling emergence and seedling growth of six non-target terrestrial plant species under greenhouse conditions. 21 46 PSE 0006 BioChem agrar GLP, not published	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 7.3	Hassler, S.	2021	Aclonifen – In vitro percutaneous penetration of [ <sup>14</sup> C]Aclonifen formulated as GLOB1310aH through Human Skin Membranes, IES, Swtizerland Study No. 20200082 Innovative Environmental Services (IES) Ltd, Switzerland GLP Unpublished	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 9.2.4	Ploem, J.P. Sanchez Lopez, A.	2021	Estimation of the PEC <sub>gw</sub> of aclonifen, flufenacet and relevant metabolites from the uses of GLOB1310aH Company Report No GLOB1310aHGW-CEU Globachem NV non GLP Unpublished	N	N	Non-GLP report	Globachem NV
KCP 9.2.5	Ploem, J.P. Sanchez Lopez, A.	2021	Estimation of the Predicted Environmental Concentrations in Surface Water (PEC <sub>sw</sub> ) and Sediment (PEC <sub>sed</sub> ) for Aclonifen, Flufenacet and relevant metabolites due to the use of GLOB1310aH Company Report No GLOB1310aHSW-CEU Globachem NV non GLP Unpublished	N	N	Non-GLP report	Globachem NV
KCP 10.2.1	Juckeland, D.	2021a	Acute toxicity of GLOB1310aH to Daphnia magna in a 48-hour static test Study No. 21 48 ADL 0001 Biochem Agrar GmbH, Germany GLP Unpublished	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV

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KCP 10.2.1	Juckeland, D.	2021b	Effects of GLOB1310aH on <i>Lemna gibba</i> in a growth inhibition test under semi-static test conditions Study No. 21 48 ALE 0001 Biochem Agrar GmbH, Germany GLP Unpublished	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 10.2.1	Juckeland, D.	2021c	Effects of GLOB1310aH on <i>Myriophyllum spicatum</i> in a semi-static water-sediment system Study No. 21 48 AMS 0001 Biochem Agrar GmbH, Germany GLP Unpublished	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 10.2.1	Juckeland, D.	2021d	Effects of GLOB1310aH on <i>Desmodesmus subspicatus</i> in an algal growth inhibition test Study No. 21 48 AAL 0017 Biochem Agrar GmbH, Germany GLP Unpublished	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 10.2.1	Juckeland, D.	2021e	Effects of GLOB1310aH on <i>Pseudokirchneriella subcapitata</i> in an algal growth inhibition test Study No. 21 48 AAL 0017 Biochem Agrar GmbH, Germany GLP Unpublished	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 10.3.1.1.1 & KCP 10.3.1.1.2	Franke, M.	2021	Acute toxicity of GLOB1310aH to the honeybee <i>Apis mellifera</i> L. under laboratory conditions Study No. 21 48 BAA 0001 Biochem Agrar GmbH, Germany GLP Unpublished	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV

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KCP 10.3.1.1.2	Amsel, K.	2021	Acute toxicity of GLOB1310aH to the bumblebee <i>Bombus terrestris</i> L. under laboratory conditions Study No. 21 48 BBA 0001 Biochem Agrar GmbH, Germany GLP Unpublished	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 10.3.1.2	Dressler, K.	2021	Chronic toxicity of GLOB1310aH to the honey bee <i>Apis mellifera</i> L. under laboratory conditions Study No. 21 48 BAC 0004 Biochem Agrar GmbH, Germany GLP Unpublished	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 10.3.1.3	Hänsel, M.	2021	GLOB1310aH - Repeated exposure of honey bee ( <i>Apis mellifera</i> L.) larvae under laboratory conditions Study No. 21 48 BLC 0003 Biochem Agrar GmbH, Germany GLP Unpublished	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 10.3.2	Röhling, U.	2021a	Effects of GLOB1310aH on the carabid beetle <i>Poecilus cupreus</i> L. in an extended laboratory test (Limit-test). Study No. 21 48 NLE 0001 Biochem Agrar GmbH, Germany GLP Unpublished	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 10.3.2	Röhling, U.	2021b	Effects of GLOB1310aH on the rove beetle <i>Aleochara bilineata</i> GYLL. in an extended laboratory test (Limit-test) Study No. 21 48 NKE 0001 Biochem Agrar GmbH, Germany GLP Unpublished	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV

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KCP 10.3.2	Röhling, U.	2021c	Effects of GLOB1310aH on the parasitic wasp <i>Aphidius rhopalosiphi</i> (DESTEFANI-PEREZ) in an extended laboratory test Study No. 21 48 NAE 0007 Biochem Agrar GmbH, Germany GLP Unpublished	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 10.3.2	Röhling, U.	2021d	Effects of GLOB1310aH on the parasitic wasp <i>Aphidius rhopalosiphi</i> DESTEFANI-PEREZ in an extended laboratory test (under semi-field conditions aged residues on potted bean plants) Study No. 21 48 NAR 0001 Biochem Agrar GmbH, Germany GLP Unpublished	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 10.3.2	Röhling, U.	2021e	Effects of GLOB1310aH on the parasitic wasp <i>Aphidius rhopalosiphi</i> DESTEFANI-PEREZ in an extended laboratory test (under semi-field conditions aged residues on potted bean plants). Study No. 21 48 NAR 0001 Biochem Agrar GmbH, Germany GLP Unpublished	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 10.3.2	Röhling, U.	2021f	Effects of GLOB1310aH on the predatory mite <i>Typhlodromus pyri</i> SCHEUTEN in an extended laboratory test Study No. 21 48 NTE 0008 Biochem Agrar GmbH, Germany GLP Unpublished	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV

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KCP 10.3.2	Röhling, U.	2021g	Effects of GLOB1310aH on the predatory mite <i>Typhlodromus pyri</i> SCHEUTEN in an extended laboratory test (under semi-field conditions aged residues on bean plants) Study No. 21 48 NTR 0001 Biochem Agrar GmbH, Germany GLP Unpublished	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 10.4.1	Friedrich, S.	2021a	Effects of GLOB1310aH on the reproduction of the earthworm <i>Eisenia fetida</i> in artificial soil Study No. 21 48 TEC 0003 Biochem Agrar GmbH, Germany GLP Unpublished	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 10.4.2	Friedrich, S.	2021b	Effects of GLOB1310aH on the reproduction of the collembolan <i>Folsomia candida</i> . Study No. 21 48 TCC 0002 Biochem Agrar GmbH, Germany GLP Unpublished	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 10.4.2	Schulz, L.	2021a	Effects of GLOB1310aH on the reproduction of the predatory mite <i>Hypoaspis aculeifer</i> . Study No. 21 48 THC 0001 Biochem Agrar GmbH, Germany GLP Unpublished	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 10.5	Schulz, L.	2021b	Effects of GLOB1310aH on the activity of soil microflora (Nitrogen transformation test) Study No. 21 48 SMN 0001 Biochem Agrar GmbH, Germany GLP Unpublished	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV

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KCP 10.5	Servajean	2014	Soil micro-organisms: Nitrogen and carbon transformation test with FOE sulfonic acid (OECD 216 and OECD 217, January 2000) Report No. 14-99-006-ES Phytosafe GLP Unpublished	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 10.5	Servajean	2014	Soil micro-organisms: Nitrogen and carbon transformation test with FOE oxalate (OECD 216 and OECD 217, January 2000) Report No. 14-99-007-ES Phytosafe GLP Unpublished	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 10.6.2	Friedemann, A.	2021a	Effects of GLOB1310aH on vegetative vigour of ten non-target terrestrial plant species under greenhouse conditions. Study No. 21 46 PVV 0001 Biochem Agrar GmbH, Germany GLP Unpublished	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV
KCP 10.6.2	Friedemann, A.	2021b	Effects of GLOB1310aH on seedling emergence and seedling growth of ten non-target terrestrial plant species under greenhouse conditions. Study No. 21 46 PSE 0001 Biochem Agrar GmbH, Germany GLP Unpublished	N	Y	Study not used earlier to support an approval/authorisation in the MS under Regulation (EC) No 1107/2009 or in the European Union under Directive 91/414/EEC	Globachem NV

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**List of data submitted or referred to by the applicant and relied on, but already evaluated at EU peer review**

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner
/	/	/	/	/	/	/	/

The following tables are to be completed by MS

**List of data submitted by the applicant and not relied on**

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner

**List of data relied on and not submitted by the applicant but necessary for evaluation**

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner