

REGISTRATION REPORT  
**Part B**  
**Section 3**  
**Efficacy Data and Information**  
Concise summary

Product code: GLOB1913H

Product Name: Roxy XL

Chemical active substances:

Prosulfocarb, 900 g/L

Central Zone  
Zonal Rapporteur Member State: Poland

CORE ASSESSMENT

Applicant: Globachem N.V.

Submission date: September 2022

After commenting period: 30/11/2023

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## Version history

When	What
September 2023	zRMS assessment
November 2023	After commenting period

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### 3 Efficacy Data and Information (including Value Data) on the Plant Protection Product (KCP 6)

#### Transformation of the dRR (applicant version) into the RR (zRMS version)

The process chosen by the zRMS to transform the dRR into a RR should be explained. Options are to rewrite the document (with track change or not) or to use commenting boxes such as the following:

Comments of zRMS:	Comments of zRMS are presented in commenting boxes at the end of each chapter. The text of dRR was generally not changed or rewritten (small changes in the document are marked by grey colour).
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#### 3.1 Summary and conclusions of zRMS on Section 3: Efficacy (KCP 6)

##### Abstract

The purpose of this section is to evaluate efficacy data submitted for authorization of GLOB1913H. Herbicide is an emulsifiable concentrate formulation (EC) containing the active ingredient prosulfocarb (900 g/L) for control of annual grass and broadleaved weeds species when the product is applied as pre- or early post-emergence treatment in winter cereals and pre-emergence in potatoes.

##### Preliminary range-finding tests

The applicant stated that as prosulfocarb is an established active substance, no preliminary studies were conducted, and therefore, no preliminary range-finding tests were submitted in support of GLOB1913H. Efficacy data against individual weed species is presented from two formulations: GLOB1318H (synonym GLOB1913H) and Prosulfocarb 900 CS. Based on the results provided, it can be assumed that the two formulations tested are comparable in terms of efficacy.

##### Minimum effective dose tests

##### Cereals use

Regardless of EPPO zones and application timings, some weed species did not show a clear dose-response effect, being susceptible to GLOB1913H even at the lowest application rate of 2.6 L/ha (>85%).

##### Potatoes use

Regardless of EPPO zones results obtained show that there was no clear increase in weed species susceptibility to GLOB1913H between the 2.6 and 4.4 L/ha rates, but the control achieved with the 4.4 L/ha rate was often higher than the control achieved with the lowest 2.6 L/ha rate.

In the north-eastern zone, where data are available, a dose rate of 4.4 l/ha was much more effective against MATIN and VIOAR than a lower dose rate of 2.6 l/ha.

##### Efficacy tests

##### Cereals use

GLOB1913H was tested at 4.4, 3.5 and 2.6 L/ha (3960, 3150, 2340 g of active substance/ha). The requested dose rate of 4.0 L/ha was not been supported by field trials. The applicant states that “all data at 4.4 L/ha dose rate can be used as support a dose rate of 4.0 L/ha on cereals because they differ less

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than 10%.” This approach is unacceptable as this guidance applies to dose changes of registered products and not as part of a core assessment under Article 33.

Sufficient evidence of effectiveness of the product has been presented from trial data generated in the Maritime, North-East and South-East zones. Data is limited in the South-east zone, so the cMS concerned can extrapolate results from the other EPPO zones. The efficacy data have shown that the tested application rates of 2.6, 3.5 and 4.4 l/ha GLOB1913H will control the following of broad-leaved weed species and some grass weeds when applied to cereals at pre or post-emergence.

Dose rate l/ha	application	Maritime zone	North-east zone	South-east zone
2.6	Pre-em	APESV, FUMOF, STEME	APESV, POAAN, GERPU, VERPE, VERHE	POAAN
	Post-em	APESV, VERPE, GERPU, THLAR, FUMOF	APESV, POAAN, FUMOF, GERPU, LAMPU, MYOAR, THLAR, VERHE, VERPE	POAAN, APESV
3.5	Pre-em	APESV, FUMOF, STEME, GERPU, MATCH	APESV, FUMOF, GERPU, MATCH, STEME, VERHE	-
	Post-em	APESV, VERPE, GERPU, THLAR, LAMPU, FUMOF	APESV, POAAN, FUMOF, GERPU, LAMPU, MYOAR, STEME, THLAR, VERHE, VERPE.	-
4.4	Pre-em	FUMOF, STEME, GALAP.	FUMOF, GALAP.	-
	Post-em	APESV, POAAN, THLAR, FUMOF, MYOAR.	APESV, CAPBP, FUMOF, MYOAR, STEME, THLAR, VERPE.	-

The proposed range of application rates would allow dose rates to be applied according to weed pressure and climatic conditions. In practice, the higher dose rate should be used when weed pressure is high or conditions are unfavourable.

### Potatoes use

In the South-East and Maritime EPPO zones, GLOB1913H was tested at dose rates of 2.6 and 4.4 L/ha. In the North-East EPPO zone, herbicide was tested at a dose rate of 2.6, 3.6 and 4.4 L/ha. Regardless of EPPO zones, there was no efficacy data available to confirm its efficacy in practice at the requested dose rate of 3.5 L/ha. Data are limited in the South-east and Maritime zone, so the cMS concerned can extrapolate results from the North-east EPPO zone. The efficacy data have shown that the tested application rates of GLOB1913H will control the following broad-leaved weed species when applied to potatoes at pre-emergence.

Dose rate l/ha	application	Maritime zone	North-east zone	South-east zone
2.6	Pre-em	THLAR	AMARE, CAPBP, GASPA, GERPU, POLPE, STEME, THLAR	-
3.5	Pre-em	-	CAPBP (at dose rate of 3.6 l/ha)	-
4.4	Pre-em	THLAR	AMARE, CHEAL GASPA, GERPU, MATIN, POLPE, STEME, THLAR and VIOAR.	CHEAL

### Possible development of resistance or cross-resistance

In terms of resistance risk, the applicant addresses all points of EPPO Standard 1/213 (4). The applicant provided a comprehensive overview of the current resistance status and the risk of resistance developing with prosulfocarb. The zRMS considers that the risk assessment is acceptable. It can be concluded that the overall agronomic resistance risk implemented by GLOB1913H has to be regarded as low to medium under current normal European agricultural practice.

### Adverse effects on treated crops

**Cereals use**

To assess the crop safety of GLOB1913H, specific selectivity trials were conducted under weed-free conditions. The phytotoxicity data indicate that the proposed uses are unlikely to cause significant damage to crops (TRZAW, TRZAWD, HORVW, TTLWI, SECCW). Any injury observed tended to be minor and/or transient. In addition, these trials show that applications of GLOB1913H are unlikely to have a negative impact on yield and quality.

**Potatoes use**

The phytotoxicity data indicate that the proposed uses are unlikely to cause significant injury to the crops. No phytotoxicity was observed in any of the efficacy and phytotoxicity trials, in potatoes in the Maritime and North East EPPO zone. One case of light symptoms of leaf deformation was observed in South East EPPO zone tended to be minor and transient.

The applicant provided acceptable risk assessments in accordance with EPPO to consider the risk to both succeeding and adjacent crops.

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**Table 3.1-1:           Acceptability of intended uses (and respective fall-back GAPs, if applicable)**

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Use- No. (e)	Member state(s)	Crop and/ or situation  (crop destination / purpose of crop)	F, Fn, G, Gn, Gpn or I	Pests or Group of pests controlled  (additionally: developmental stages of the pest or pest group)	Application				Application rate			PHI (days)	Remarks:  e.g. _____ g safener/synergist per ha (f)	zRMS Conclusion (efficacy)
					Method / Kind	Timing / Growth stage of crop & season	Max. number a) — per use b) — per crop/ season	Min. interval between applications (days)	L product / ha a) — max. rate per appl. b) — max. total rate per crop/season	kg _____ as/ha a) — max. rate per appl. b) — max. total rate per crop/season	Water L/ha  min / max			
Zonal uses (field or outdoor uses, certain types of protected crops)														
1	PL, —IE, BE, HU, SK	Winter wheat (TRZAW); Winter barley (HORVW); Winter rye (SECCW); Triticale (TTLWI)	F	Annual broad leaved weeds (BBBAN) & grasses (GGGAN)	Downward spraying	Pre- emergence (BBCH—0- 09)	a) 1 b) 1	/	a) — 4.0 b) — 4.0	a) Prosulfocarb: 3.6 b) Prosulfocarb: 3.6	155- 300	/	/	
2	PL, —IE, BE, HU, SK	Winter wheat (TRZAW); Winter barley (HORVW); Winter rye (SECCW); Triticale (TTLWI)	F	Annual broad leaved weeds (BBBAN) & grasses (GGGAN)	Downward spraying	Pre- emergence (BBCH—0- 09)	a) 1 b) 1	/	a) — 3.5 b) — 3.5	a) Prosulfocarb: 3.15 b) Prosulfocarb: 3.15	155- 300	/	/	
3	PL, —IE, BE, HU, SK	Winter wheat (TRZAW); Winter barley (HORVW); Winter rye (SECCW); Triticale (TTLWI)	F	Annual broad leaved weeds (BBBAN) & grasses (GGGAN)	Downward spraying	BBCH—10- 29	a) 1 b) 1	/	a) — 4.0 b) — 4.0	a) Prosulfocarb: 3.6 b) Prosulfocarb: 3.6	155- 300	/	/	

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Use- No. ( <sup>e</sup> )	Member 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: developmental stages of the pest or pest-group)	Application				Application rate			PHI (days)	Remarks: e.g. safener/synergist per ha ( <sup>f</sup> )	zRMS Conclusion (efficacy)
					Method –/ Kind	Timing –/ Growth stage of crop & season	Max. number a) – per use b) – per crop/ season	Min. interval between applications (days)	L product / ha a) – max. rate per appl. b) – max. total rate per crop/season	kg – as/ha a) – max. rate per appl. b) – max. total rate per crop/season	Water L/ha min –/ max			
4	PL, IE, BE, HU, SK	Winter wheat (TRZAW), Winter barley (HORVW), Winter rye (SECCW), Triticale (TTLWI)	F	Annual broad-leaved weeds (BBBAN) & grasses (GGGAN)	Downward spraying	BBCH 10- 29	a) 1 b) 1	/	a) 3.5 b) 3.5	a) Prosulfocarb: 3.15 b) Prosulfocarb: 3.15	155- 300	/	/	
5	PL, IE, BE, HU, SK	Potato (SOLTU)	F	Annual broad-leaved weeds (BBBAN) & grasses (GGGAN)	Downward spraying	Pre- emergence (BBCH 0- 09)	a) 1 b) 1	/	a) 4.4 b) 4.4	a) Prosulfocarb: 3.96 b) Prosulfocarb: 3.96	155- 300	/	/	
6	PL, IE, BE, HU, SK	Potato (SOLTU)	F	Annual broad-leaved weeds (BBBAN) & grasses (GGGAN)	Downward spraying	Pre- emergence (BBCH 0- 09)	a) 1 b) 1	/	a) 3.5 b) 3.5	a) Prosulfocarb: 3.15 b) Prosulfocarb: 3.15	155- 300	/	/	
7	PL, IE, BE, HU, SK	Winter durum wheat (TRZDW)	F	Annual broad-leaved weeds (BBBAN) & grasses (GGGAN)	Downward spraying	Pre- emergence	a) 1 b) 1	/	a) 2.6 b) 2.6	a) Prosulfocarb: 2.34 e) Prosulfocarb: 2.34	155- 300	/	/	
8	PL, IE, BE, HU, SK	Winter durum wheat (TRZDW)	F	Annual broad-leaved weeds (BBBAN) & grasses (GGGAN)	Downward spraying	BBCH 10-29	a) 1 b) 1	/	a) 2.6 b) 2.6	a) Prosulfocarb: 2.34 d) Prosulfocarb: 2.34	155- 300	/	/	

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

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

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Use- No. (e)	Member state(s)	Crop and/ or situation  (crop destination / purpose of crop)	F, Fn, G, Gn, Gpn or I	Pests or Group of pests controlled  (additionally: developmental stages of the pest or pest group)	Application				Application rate			PHI (days)	Remarks:  e.g. safener/synergist per ha (f)	zRMS Conclusion (efficacy)
					Method / Kind	Timing / Growth stage of crop & season	Max. number a) per use b) per crop/ season	Min. interval between applications (days)	L product / ha a) max. rate per appl. b) max. total rate per crop/season	kg as/ha a) max. rate per appl. b) max. total rate per crop/season	Water L/ha min / max			
Zonal uses (field or outdoor uses, certain types of protected crops)														
1	PL	Winter wheat (TRZAW), Winter barley (HORVW), Winter rye (SECCW), Triticale (TTLWI)	F	APESV, CAPBP, FUMOF, MYOAR, STEME, THLAR, VERPE.	Downward spraying	Pre-emergence (BBCH 0-09)	a) 1 b) 1	/	c) 4.4 d) 4.4	a) Prosulfocarb: 3.96 b) Prosulfocarb: 3.96	155-300	/	/	
2	PL	Winter wheat (TRZAW), Winter barley (HORVW), Winter rye (SECCW), Triticale (TTLWI)	F	Annual broad leaved weeds (BBBAN) & grasses (GGGAN)	Downward spraying	Pre-emergence (BBCH 0-09)	a) 1 b) 1	/	e) 4.0 f) 4.0	c) Prosulfocarb: 3.6 d) Prosulfocarb: 3.6	155-300	/	/	
3	IE, BE, HU, SK	Winter wheat (TRZAW), Winter barley (HORVW), Winter rye (SECCW), Triticale (TTLWI)	F	Annual broad leaved weeds (BBBAN) & grasses (GGGAN)	Downward spraying	Pre-emergence (BBCH 0-09)	a) 1 b) 1	/	g) 4.0 h) 4.0	e) Prosulfocarb: 3.6 f) Prosulfocarb: 3.6	155-300	/	/	

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Use- No. (e)	Member state(s)	Crop and/ or situation  (crop destination / purpose of crop)	F, Fn, G, Gn, Gpn or I	Pests or Group of pests controlled  (additionally: developmental stages of the pest or pest group)	Application				Application rate			PHI (days)	Remarks:  e.g. safener/synergist per ha (f)	zRMS Conclusion (efficacy)
					Method / Kind	Timing / Growth stage of crop & season	Max. number a) per use b) per crop/ season	Min. interval between applications (days)	L product / ha a) max. rate per appl. b) max. total rate per crop/season	kg as/ha a) max. rate per appl. b) max. total rate per crop/season	Water L/ha min / max			
4	IE, BE, HU, SK	Winter wheat (TRZAW), Winter barley (HORVW), Winter rye (SECCW), Triticale (TTLWI)	F	FUMOF, STEME, GALAP.	Downward spraying	Pre- emergence (BBCH 0- 09)	a) 1 b) 1	/	i) 4.4 j) 4.4	a) Prosulfocarb: 3.96 b) Prosulfocarb: 3.96	155- 300	/	/	
5	PL	Winter wheat (TRZAW), Winter barley (HORVW), Winter rye (SECCW), Triticale (TTLWI)	F	APESV, FUMOF, GERPU, MATCH, STEME, VERHE	Downward spraying	Pre- emergence (BBCH 0- 09)	a) 1 b) 1	/	c) 3.5 d) 3.5	c) Prosulfocarb: 3.15 d) Prosulfocarb: 3.15	155- 300	/	/	
6	IE, BE, HU, SK	Winter wheat (TRZAW), Winter barley (HORVW), Winter rye (SECCW), Triticale (TTLWI)	F	APESV, FUMOF, STEME, GERPU, MATCH)	Downward spraying	Pre- emergence (BBCH 0- 09)	a) 1 b) 1	/	e) 3.5 f) 3.5	e) Prosulfocarb: 3.15 f) Prosulfocarb: 3.15	155- 300	/	/	

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					Method / Kind	Timing / Growth stage of crop & season	Max. number a) per use b) per crop/ season	Min. interval between applications (days)	L product / ha a) max. rate per appl. b) max. total rate per crop/season	kg as/ha a) max. rate per appl. b) max. total rate per crop/season	Water L/ha min / max			
7	PL	Winter wheat (TRZAW), Winter barley (HORVW), Winter rye (SECCW), Triticale (TTLWI)	F	APESV, CAPBP, FUMOF, MYOAR, STEME, THLAR, VERPE.	Downward spraying	BBCH 10-29	a) 1 b) 1	/	c) 4.4 d) 4.4	c)Prosulfocarb: 3.96 d)Prosulfocarb: 3.96	155-300	/	/	
8	PL	Winter wheat (TRZAW), Winter barley (HORVW), Winter rye (SECCW), Triticale (TTLWI)	F	Annual broad leaved weeds (BBBAN) & grasses (GGGAN)	Downward spraying	BBCH 10-29	a) 1 b) 1	/	e) 4.0 f) 4.0	e)Prosulfocarb: 3.6 f) Prosulfocarb: 3.6	155-300	/	/	
9	IE, BE, HU, SK	Winter wheat (TRZAW), Winter barley (HORVW), Winter rye (SECCW), Triticale (TTLWI)	F	Annual broad leaved weeds (BBBAN) & grasses (GGGAN)	Downward spraying	BBCH 10-29	a) 1 b) 1	/	g) 4.0 h) 4.0	g)Prosulfocarb: 3.6 h)Prosulfocarb: 3.6	155-300	/	/	

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Use- No. (e)	Member state(s)	Crop and/ or situation  (crop destination / purpose of crop)	F, Fn, G, Gn, Gpn or I	Pests or Group of pests controlled  (additionally: developmental stages of the pest or pest group)	Application				Application rate			PHI (days)	Remarks:  e.g. safener/synergist per ha (f)	zRMS Conclusion (efficacy)
					Method / Kind	Timing / Growth stage of crop & season	Max. number a) per use b) per crop/ season	Min. interval between applications (days)	L product / ha a) max. rate per appl. b) max. total rate per crop/season	kg as/ha a) max. rate per appl. b) max. total rate per crop/season	Water L/ha min / max			
10	IE, BE, HU, SK	Winter wheat (TRZAW), Winter barley (HORVW), Winter rye (SECCW), Triticale (TTLWI)	F	APESV, POAAN, THLAR, FUMOF, MYOAR.	Downward spraying	BBCH 10- 29	a) 1 b) 1	/	i) 4.4 j) 4.4	i) Prosulfocarb: 3.96 j) Prosulfocarb: 3.96	155- 300	/	/	
11	PL	Winter wheat (TRZAW), Winter barley (HORVW), Winter rye (SECCW), Triticale (TTLWI)	F	APESV, POAAN, FUMOF, GERPU, LAMPUR, MYOAR, STEME, THLAR, VERHE, VERPE.	Downward spraying	BBCH 10- 29	a) 1 b) 1	/	c) 3.5 d) 3.5	c) Prosulfocarb: 3.15 d) Prosulfocarb: 3.15	155- 300	/	/	
12	IE, BE, HU, SK	Winter wheat (TRZAW), Winter barley (HORVW), Winter rye (SECCW), Triticale (TTLWI)	F	APESV, VERPE, GERPU, THLAR, LAMPUR, FUMOF	Downward spraying	BBCH 10- 29	a) 1 b) 1	/	e) 3.5 f) 3.5	e) Prosulfocarb: 3.15 f) Prosulfocarb: 3.15	155- 300	/	/	
13	PL	Potato (SOLTU)	F	AMARE, CHEAL GASPA, GERPU, MATIN, POLPE, STEME, THLAR and VIOAR.	Downward spraying	Pre- emergence (BBCH 0- 09)	a) 1 b) 1	/	c) 4.4 d) 4.4	c) Prosulfocarb: 3.96 d) Prosulfocarb: 3.96	155- 300	/	/	

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Use- No. (e)	Member state(s)	Crop and/ or situation  (crop destination / purpose of crop)	F, Fn, G, Gn, Gpn or I	Pests or Group of pests controlled  (additionally: developmental stages of the pest or pest group)	Application				Application rate			PHI (days)	Remarks:  e.g. safener/synergist per ha (f)	zRMS Conclusion (efficacy)
					Method / Kind	Timing / Growth stage of crop & season	Max. number a) per use b) per crop/ season	Min. interval between applications (days)	L product / ha a) max. rate per appl. b) max. total rate per crop/season	kg as/ha a) max. rate per appl. b) max. total rate per crop/season	Water L/ha min / max			
14	IE, BE, HU, SK	Potato (SOLTU)	F	THLAR, CHEAL	Downward spraying	Pre- emergence (BBCH 0- 09)	a) 1 b) 1	/	e) 4.4 f) 4.4	e)Prosulfocarb: 3.96 f) Prosulfocarb: 3.96	155- 300	/	/	
15	PL	Potato (SOLTU)	F	CAPBP	Downward spraying	Pre- emergence (BBCH 0- 09)	a) 1 b) 1	/	c) 3.5 d) 3.5	e)Prosulfocarb: 3.15 f) Prosulfocarb: 3.15	155- 300	/	/	
16	IE, BE, HU, SK	Potato (SOLTU)	F	Annual broad leaved weeds (BBBAN) & grasses (GGGAN)	Downward spraying	Pre- emergence (BBCH 0- 09)	a) 1 b) 1	/	e) 3.5 f) 3.5	g)Prosulfocarb: 3.15 h)Prosulfocarb: 3.15	155- 300	/	/	
17	PL	Winter durum wheat (TRZDW)	F	APESV, POAAN, GERPU, VERPE, VERHE)	Downward spraying	Pre- emergence	a) 1 b) 1	/	c) 2.6 d) 2.6	b)Prosulfocarb: 2.34 i) Prosulfocarb: 2.34	155- 300	/	/	
18	IE, BE, HU, SK	Winter durum wheat (TRZDW)	F	APESV, FUMOF, STEME	Downward spraying	Pre- emergence	a) 1 b) 1	/	e) 2.6 f) 2.6	c)Prosulfocarb: 2.34 j) Prosulfocarb: 2.34	155- 300	/	/	
19	PL	Winter durum wheat (TRZDW)	F	APESV, POAAN, FUMOF, GERPU, LAMPU, MYOAR, THLAR, VERHE, VERPE	Downward spraying	BBCH10-29	a) 1 b) 1	/	c) 2.6 d) 2.6	b)Prosulfocarb: 2.34 k)Prosulfocarb: 2.34	155- 300	/	/	
20	IE, BE, HU, SK	Winter durum wheat (TRZDW)	F	APESV, VERPE, GERPU, THLAR, FUMOF	Downward spraying	BBCH10-29	a) 1 b) 1	/	e) 2.6 f) 2.6	c)Prosulfocarb: 2.34 l) Prosulfocarb: 2.34	155- 300	/	/	

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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

## 3.2 Efficacy data (KCP 6)

### Introduction

This core assessment dossier summarises the information related to the efficacy of the plant protection product GLOB1913H, an emulsifiable concentrate formulation (EC) containing the active ingredient prosulfocarb (900 g/L) for pre-emergence and early post-emergence weed control in cereals.

Poland is considered to be the zonal Rapporteur Member State (zRMS) of this submission for the Central zone, while France is considered to be the zRMS for the Southern zone according to the Regulation No. 1107/2009. At the time of submission, Ireland, Belgium, Hungary and Slovakia are also included as concerned Member States (cMS) for the Central zone. Trials included in the BAD were therefore performed across the concerned climatic zones, including the Maritime, North-East, South-East and Mediterranean EPPO Zones according to the EPPO standard PP1/241.

The active ingredient was included into Annex I of Directive 91/414, repealed by Regulation (EC) No 1107/2009 (Directive 2007/76/EC). The review report for prosulfocarb (SANCO/2824/07 – 10/09/2007) is considered to provide the relevant review information or a reference to where such information can be found.

The Annex I Inclusion Directive for prosulfocarb provides specific provisions under Part B which need to be considered by the applicant in the preparation of their submission and by the MS prior to granting an authorisation.

For the implementation of the uniform principles of Annex VI, the conclusions of the review report on the active substances, and in particular Appendices I and II thereof, as finalised in the corresponding Standing Committee on Plants, Animals, Food and Feed shall be taken into account.

In this overall assessment there are however no efficacy related concerns.

### Description of active substances

The active substance prosulfocarb is an old active substance registered in many EU countries and used for the weed control in cereals.

Prosulfocarb was first developed by Syngenta in the 1980s and commercialized in Europe in winter cereals in 1988 and in winter potatoes in 1991. It is effective against a range of grass and broadleaf weeds, it can handle some difficult problems, (like herbicide-resistant weeds), it's safe to the crop and it offers some residual activity for longer control. It is available either alone or in mixture with other herbicides.

### Mode of action

Prosulfocarb is a thiocarbamate, belonging to the HRAC/WSSA Group 15 (former N) (lipid inhibitors). Other herbicides belonging to Group 15 are the benzofuranes, chloro-carbonic-acids and phosphorodithioates like benfuresate and ethofumesate (both benzofuranes), TCA (chloro-carbonic-acid) and bensulide (phosphorodithioate).

It provides selective weed control in a range of crops, when applied either pre-emergence or post-emergence. Certain grass and broad-leaved weeds are controlled through inhibition of the process of lipid synthesis. Uptake of prosulfocarb into plants from pre-emergence application usually results in the death of weed seedlings prior to emergence. Those which do emerge die quickly. It is believed that the primary site of action is at the apical meristem which passes through the herbicide-containing soil layer before emergence at the soil surface. Where application is made at early (up to 2 leaf) post-emergent growth stages of weeds, prosulfocarb enters through the foliage and moves towards the growing points. The meristem is killed quickly, leading to death of the whole plant.

Typical symptoms of thiocarbamate injury in susceptible plants include dark greening, inhibition of shoot and root and failure of leaf emergence from coleoptiles of grass species. Application to larger plants results in severe necrosis of meristem and surrounding tissues.

Given the characteristics of the active substance, GLOB1913H is to be used pre and post-emergence in cereals and pre-emergence in potatoes for the control of grass and broadleaved weeds.

**Table 3.2-2: Details of the active substances in GLOB1913H**

Active substance	Prosulfocarb
Concentration (Unit: g/kg or g/L...)	900 g/L
Chemical group	thiocarbamates
Mode of action	lipid synthesis inhibitor
Biological action	Pre and post-emergence control of grasses and broadleaved weeds

### Description of the plant protection product

The product GLOB1913H contains prosulfocarb (900 g/L). Information on the detailed composition can be found in the confidential dossier of this submission (Registration Report - Part C).

The appearance of the product is that of a golden yellow coloured liquid, with a sweet odour. It is not explosive, has no oxidising properties. The product is not highly flammable. 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 an *emulsifiable concentrate* formulation.

Historically, formulations containing 800 g/L of prosulfocarb can be found in the EU market (e.g. Roxy, Boxer, Defy, Fidox) generally at a dose rate of 5 L/ha (providing 4.000 g a.s./ha). Data are submitted in this application for the authorization of a 900 g/L formulation to be applied at the maximum rate of 4 L in cereals (providing 3.600 g a.s./ha) and 4.4 L/ha on potatoes (providing 3.960 g a.s./ha) representing an economic alternative for growers and providing the same levels of control.

The classification proposal GLOB1913H according to Regulation (EC) 1272/2008 (CLP Regulation) can be found in Part A of this submission.

**Table 3.2-3: Simplified table of currently registered uses and requested uses for GLOB1913H**

Uses		Member State	Requested rate(s)	Comments / Other relevant details on GAPs
Crop(s)	Target(s)			
Winter wheat (TRZAW), Winter barley (HORVW), Winter rye (SECCW), Triticale (TTLWI)	Annual broad leaved weeds (BBBAN) & grasses (GGGAN)	CZ, PL, IE, BE, HU, SK	3.5-4 L/ha	1 application Pre-emergence (BBCH 00-09) Post-emergence (BBCH 10-29)
Winter durum wheat (TRZDW)	Annual broad leaved weeds (BBBAN) & grasses (GGGAN)	CZ, PL, IE, BE, HU, SK	2.6 L/ha	1 application Pre-emergence (BBCH 00-09) Post-emergence (BBCH 10-29)
Potato (SOLTU)	Annual broad leaved weeds (BBBAN) & grasses (GGGAN)	CZ, PL, IE, BE, HU, SK	3.5-4.4 L/ha	1 application Pre-emergence (BBCH 00-09)

Further details are in the table “All intended uses” in Part B - Section 0.

In addition, the above-mentioned formulations containing 800 g/L of prosulfocarb Roxy, Boxer, Defy, Fidox are products owned by the applicant. Because of the demonstrated equivalence of GLOB1913H and those products, additional crops and susceptibility of the different weeds currently present on the label of the existing 800 g/L formulations can be carried over from the already registered product through the bridging approach. Based on this, in countries where a dose range is approved for the reference product, a similar dose range can be defended for GLOB1913H.

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### Description of the target weeds

**Table 3.2-4: Glossary of pests mentioned in the dossier**

Group	EPPO code		Scientific name	Common name
Broadleaf	AMARE		<i>Amaranthus retroflexus</i>	Common amaranth
	AMBEL		<i>Ambrosia artemisiifolia</i>	annual ragweed
	AMIMA		<i>Ammi majus</i>	bullwort
	ANTAR		<i>Anthemis arvensis</i>	Field chamomile
	APHAR		<i>Aphanes arvensis</i>	Break-stone
	ARBTH		<i>Arabidopsis thaliana</i>	Thale cress
	CAPBP		<i>Capsella bursa-pastoris</i>	Shepherd's purse
	CENCY		<i>Centaurea cyanus</i>	Bachelor's- button, cornflower
	CENDL		<i>Centaurea diluta</i>	North African knapweed
	CHEAL		<i>Chenopodium album</i>	Fat-hen
	CHEHY		<i>Chenopodium hybridum</i>	maple-leaf goosefoot
	CHYCO		<i>Glebionis coronarium</i>	Garland chrysanthemum
	CHYSE		<i>Glebionis segetum</i>	Corn marigold
	CLDAR		<i>Calendula arvensis</i>	Field calendula
	CONAR		<i>Convolvulus arvensis</i>	Field bindweed
	DATST		<i>Datura stramonium</i>	Jimsonweed
	DESSO		<i>Descurainia sophia</i>	Flixweed
	DIPMU		<i>Diploaxis muralis</i>	Sand rocket
	EPHHE		<i>Euphorbia helioscopia</i>	Sun spurge
	EROCI		<i>Erodium cicutarium</i>	common storksbill
	FUMOF		<i>Fumaria officinalis</i>	Common fumitory
	GAETE		<i>Galeopsis tetrahit</i>	common hemp-nettle
	GALAP		<i>Galium aparine</i>	Cleavers
	GASPA		<i>Galinsoga parviflora</i>	Small-flower galinsoga
	MALSI		<i>Malva sylvestris</i>	High mallow
	MATCH		<i>Matricaria chamomilla</i>	Wild chamomile
	MATIN		<i>Tripleurospermum inodorum</i>	False chamomille, scentless mayweed
	MERAN		<i>Mercurialis annua</i>	annual mercury
	MYOAR		<i>Myosotis arvensis</i>	Field forget-me-not
	PAPRH		<i>Papaver rhoeas</i>	Common poppy
	PAPRS		<i>Papaver rhoeas subsp. strigosum</i>	Papaver rhoeas subsp. strigosum
	POLAV		<i>Polygonum aviculare</i>	prostrate knotweed
	POLCO		<i>Fallopia convolvulus</i>	wild buckwheat
	POLLA		<i>Persicaria lapathifolia</i>	knotted persicaria
	POLPE		<i>Persicaria maculosa</i>	Ladysthumb
	POLPI		<i>Polygonum persicarioides</i>	-
	POROL		<i>Portulaca oleracea</i>	Common purslane
	RAPRA		<i>Raphanus raphanistrum</i>	Jointed charlock
	SCRAN		<i>Scleranthus annuus</i>	Annual knawel
	SENVU		<i>Senecio vulgaris</i>	Common groundsel
	SINAR		<i>Sinapis arvensis</i>	Wild mustard
	SOLNI		<i>Solanum nigrum</i>	Black nightshade
	SSYOF		<i>Sisymbrium officinale</i>	Hedge mustard
	THLAR		<i>Thlaspi arvense</i>	Field pennycress
	URTUR		<i>Urtica urens</i>	Small nettle
	VICCR		<i>Vicia cracca</i>	Bird vetch
	VIOAR		<i>Viola arvensis</i>	Field violet
	1 GERG Geranium spp.	GERDI	<i>Geranium dissectum</i>	Cut-leaf geranium
		GERPU	<i>Geranium pusillum</i>	Small-flower geranium
	1 LAMG Lamium spp.	LAMAM	<i>Lamium amplexicaule</i>	Henbit
		LAMPU	<i>Lamium purpureum</i>	Purple deadnettle
	1 STEG Stellaria spp.	STEME	<i>Stellaria media</i>	Common chickweed
		STELS	<i>Stellaria longissima</i>	Stellaria longissima

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Group	EPP0 code		Scientific name	Common name
	1VERG <i>Veronica</i> spp.	VERAG	<i>Veronica agrestis</i>	Field speedwell
		VERAR	<i>Veronica arvensis</i>	Corn speedwell
		VERHE	<i>Veronica hederifolia</i>	Ivy-leaved speedwell
		VERPE	<i>Veronica persica</i>	Bird's-eye speedwell
		VERCH	<i>Veronica chamaedrys</i>	Germander speedwell
Grasses	AGRRE		<i>Elymus repens</i>	common couchgrass
	ALOMY		<i>Alopecurus myosuroides</i>	Blackgrass
	APESV		<i>Apera spica-venti</i>	Windgrass
	1AVEG <i>Avena</i> spp.	AVEFA	<i>Avena fatua</i>	Wild oat
		AVESA	<i>Avena sativa</i>	Common oat
		AVEST	<i>Avena sterilis</i>	Sterile oat
	CYPRO (sedge grass like)		<i>Cyperus rotundus</i>	Purple nutsedge
	ECHCG		<i>Echinochloa crus-galli</i>	Cockspear(grass)
	LOLMU		<i>Lolium multiflorum</i>	Italian ryegrass
	LOLPE		<i>Lolium perenne</i>	Perennial ryegrass
	LOLRI		<i>Lolium rigidum</i>	Swiss ryegrass
	LOLSS		<i>Lolium sp.</i>	Ryegrass
	POAAN		<i>Poa annua</i>	Annual bluegrass
	SETVI		<i>Setaria viridis</i>	green bristlegrass, green foxtail

The weed susceptibility scale used in this BAD is shown in the table below.

**Table 3.2-5: Susceptibility scale**

Weed species susceptibility	Level of control
Highly Susceptible (HS)	95 - 100 %
Susceptible (S)	85 - 94.9 %
Moderately Susceptible (MS)	70 - 84.9%
Moderately Tolerant (MT)	50 - 69.9%
Tolerant (T)	0 - 49.9 %

**Table 3.2-6: Major / minor status of intended uses (for all cMS and zRMS).**

Crop and/or situation	Crop status		Pests or group of pests controlled	Pest status	
	Major	minor		Major	minor
Winter wheat (soft) (TRZAW)	CZ, PL, IE, BE, HU, SK	-	Annual grassy weeds and Annual dicotyledonous weeds	CZ, PL, IE, BE, HU, SK	-
Winter barley (HORVW)	CZ, PL, IE, BE, HU, SK	-		CZ, PL, IE, BE, HU, SK	-
Winter rye (SECCW)	CZ, PL, HU, SK	IE, BE		CZ, PL, IE, BE, HU, SK	-
Winter triticale (TTLWI)	CZ, PL, HU, SK	IE, BE		CZ, PL, IE, BE, HU, SK	-
Winter durum wheat (TRZDW)	-	CZ, PL, IE, BE, HU, SK		CZ, PL, IE, BE, HU, SK	-
Potato	CZ, PL, IE, BE, HU, SK	-	Annual grassy weeds and Annual dicotyledonous weeds	CZ, PL, IE, BE, HU, SK	-

## Compliance with the Uniform Principles

All data submitted in this Biological assessment dossier are in compliance with the Uniform Principles.

## Information on trials submitted (3.2 Efficacy data)

The following table aims to give an overview of submitted trials.

**Table 3.2-7: Presentation of trials (efficacy trials, preliminary trials...) on cereals – pre-emergence application**

Target(s)	Crop	Country	Years	Type of trial**	Number of trials				GEP, non-GEP, official***
					Marit. zone	North-East zone	South-East zone	Medit. Zone	
Annual broad leaved weeds (BBAN) & grasses (GGAN)	HORVW	CZ	2020	E+MED	1				GEP
		DE	2020	E	1				GEP
		ES	2020	E+MED				1	GEP
		FR	2018	P+E+MED	1				GEP
			2020	E				1	GEP
		NL	2020	E+MED	1				GEP
		PL	2020	E+MED		2			GEP
	HORVW (both pre and post-em. appl.)	HR	2020	E+MED			1		GEP
		HU	2021	E+MED			2		GEP
	HORVW Total				4	2	3	2	-
	SECCW	DE	2018	P+E+MED	1				GEP
		PL	2018	P+E+MED		2			GEP
	SECCW Total				1	2			-
	TRZAW	CZ	2018	P+E+MED	1				GEP
			2020	E	2				GEP
		DE	2018	P+E+MED	1				GEP
			2020	E	1				GEP
				E+MED	2				GEP
		DK	2018	E+MED	3				GEP
			2020	E+MED	2				GEP
			2021	E+MED	1				GEP
		ES	2018	P+E+MED				1	GEP
		FR	2018	E+MED	1				GEP
				P+E+MED	1			1	GEP
			2020	E+MED				1	GEP
		GB	2018	P+E+MED	2				GEP
		HR	2018	P+E+MED				1	GEP
			2020	E				1	GEP
				E+MED				1	GEP
		IT	2020	E				1	GEP
				E+MED				1	GEP
		LV	2020	E+MED		1			GEP
			2021	E+MED		1			GEP
		NL	2018	P+E+MED	1				GEP
			2020	E	1				GEP
		PL	2018	P+E+MED		2			GEP
			2020	E+MED		2			GEP
	TRZAW (both pre and post-em. appl.)	HR	2020	E+MED			1		GEP
		RO	2020	E+MED			1		GEP
	TRZAW Total				19	6	2	8	-
	TRZDW	IT	2018	P+E+MED				2	GEP
	TRZDW Total							2	-
	TTLWI	DE	2018	P+E+MED	2				GEP
		PL	2018	P+E+MED		2			GEP
	TTLWI Total				2	2			-
Overall total		2018-2021			26	12	5	12	55

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**Table 3.2-8: Presentation of trials (efficacy trials, preliminary trials...) on cereals – post-emergence application**

Target(s)	Crop	Country	Years	Type of trial**	Number of trials				GEP, non-GEP, official***
					Marit. zone	North-East zone	South-East zone	Medit. Zone	
Annual broad leaved weeds (BBBAN) & grasses (GGGAN)	HORVW	CZ	2020	E+MED	1				GEP
		DE	2018	P+E+MED	1				GEP
			2019	P+E+MED	1				GEP
			2020	E	1				GEP
		ES	2019	E+MED				1	GEP
				P+E+MED				2	GEP
			2020	E+MED				1	GEP
		FR	2018	E+MED	1				GEP
			2019	E+MED				1	GEP
			2020	E				1	GEP
		HR	2019	P+E+MED				1	GEP
		NL	2020	E+MED	1				GEP
		PL	2018	P+E+MED		1			GEP
			2020	E+MED		2			GEP
		SE	2021	E+MED	1				GEP
	HORVW (both pre and post-em. appl.)	HR	2020	E+MED			1		GEP
		HU	2021	E+MED			2		GEP
	HORVW Total				7	3	3	7	-
	SECCW	DE	2018	P+E+MED	1				GEP
		PL	2018	P+E+MED		2			GEP
	SECCW Total				1	2			-
	TRZAW	CZ	2018	P+E+MED	2				GEP
			2019	P+E+MED	5				GEP
			2020	E	2				GEP
		DE	2019	P+E+MED	1				GEP
			2020	E	1				GEP
				E+MED	2				GEP
		DK	2018	E+MED	3				GEP
			2020	E+MED	1				GEP
		ES	2019	E+MED				1	GEP
		FR	2018	P+E+MED	1			1	GEP
			2019	P+E+MED	2			1	GEP
			2020	E+MED				1	GEP
		GB	2018	P+E+MED	2				GEP
		HR	2018	P+E+MED				1	GEP
			2019	P+E+MED				2	GEP
			2020	E				1	GEP
		IT		E+MED				1	GEP
			2019	P+E+MED				5	GEP
			2020	E				1	GEP
		LV		E+MED				1	GEP
			2020	E+MED		1			GEP
			2021	E+MED		1			GEP
		NL	2018	P+E+MED	1				GEP
			2019	P+E+MED	1				GEP
			2020	E	1				GEP
		PL	2018	P+E+MED	1				GEP
			2019	E+MED	2	1			GEP
			2020	E+MED		2			GEP
	TRZAW (both pre and post-em. appl.)	HR	2020	E+MED			1		GEP
		RO	2020	E+MED			1		GEP
	TRZAW Total				28	5	2	16	-
	TRZDW	IT	2020	P+E+MED				1	GEP
	TRZDW Total							1	-
	TTLWI	DE	2018	P+E+MED	3				GEP
			2019	P+E+MED	1				GEP
		ES	2019	P+E+MED				1	GEP
		PL	2018	P+E+MED		2			GEP
			2019	E+MED		2			GEP

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	SE	2020	E+MED	1				GEP
	TTLWI Total			5	4		1	-
<b>Overall total</b>	2018-2021			41	14	5	25	85

**Table 3.2-9: Presentation of trials (efficacy trials, preliminary trials...) on potatoes – pre-emergence application**

Target(s)	Crop	Country	Years	Type of trial**	Number of trials				GEP, non-GEP, official***	Comments (any other relevant information)
					Marit. zone	North-East zone	South-East zone	Medit. zone		
Annual broad leaved weeds (BBBAN) & grasses (GGGAN)	SOLTU	CZ	2019	E+MED	2				GEP	
			2020	E+MED	1				GEP	
		DE	2018	E+MED	1				GEP	
			2019	E+MED	1				GEP	
			2020	E+MED	1				GEP	
		FR	2018	E+MED	2				GEP	
			2019	E+MED	2				GEP	
			2020	E+MED	1				GEP	
		NL	2020	E+MED	1				GEP	
		EE	2020	E+MED		1			GEP	
		LV	2020	E+MED		1			GEP	
		PL	2019	E+MED		4			GEP	
			2020	E+MED		2			GEP	
		HR	2020	E+MED			1		GEP	
		HU	2020	E+MED			2		GEP	
		IT	2021	E+MED				2	GEP	
	<b>Overall total</b>		<b>2018-2020</b>	<b>-</b>	<b>12</b>	<b>8</b>	<b>3</b>	<b>2</b>	<b>-</b>	<b>All zones: 25</b>

\* According to the GAP table. Timing of the application(s) can be added if relevant (e.g. Pre-mergence vs post-emergence, spring vs autumn).

\*\* P = preliminary trial, MED = minimum effective dose, E = efficacy trial.

\*\*\* GEP: Good Experimental Practices. Official: carried out by a national official organisation.

*It should be noted that all data at 4.4 L/ha dose rate can be used to support a dose rate of 4 L/ha on cereals, because they differ less than 10%. This is supported by the “CRD Data Requirements Handbook: Chapter 8 Efficacy” as well as the “Guidance on requirements for efficacy data for zonal evaluation of a plant protection product in the Northern Zone”. Both documents state that changes of less than 10% in the amount of any formulation component applied, including the active substance, are minor and as such require no further data.*

**Table 3.2-10: Presentation of reference standards used in efficacy trials**

Crop(s)	Reference standard	Country(ies) where the product is registered (1)	Authorization number	Active substance(s)	Formulation		Registered application rate (3)	Application rate in trials (per treatment)	Remark (4)
					Type (2)	Concentration of a.s.			
Winter cereals	Boxer	NL	10701	prosulfocarb	EC	800 g/L	5 L/ha	5 L/ha	
		DK	1-211	prosulfocarb	EC	800 g/L	1.5-5 L/ha	4-5 L/ha	
		DE	033838-00	Prosulfocarb	EC	800 g/L	Max. 5 L/ha	4-5 L/ha	
		CZ	4566-0	Prosulfocarb	EC	800 g/L	3 L/ha	4-5 L/ha	

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Crop(s)	Reference standard	Country(ies) where the product is registered <sup>(1)</sup>	Authorization number	Active substance(s)	Formulation		Registered application rate <sup>(3)</sup>	Application rate in trials (per treatment)	Remark <sup>(4)</sup>
					Type <sup>(2)</sup>	Concentration of a.s.			
		SE	3887	prosulfocarb	EC	800 g/L	1.5-5 L/ha	1.5-5 L/ha	
		LV	0271	prosulfocarb	EC	800 g/L	2-4 L/ha	1.5-2.5-4 L/ha	
		RO	2787	prosulfocarb	EC	800 g/L	3 L/ha	3 L/ha	
		PL	R- 88/2015	prosulfocarb	EC	800 g/L	3 L/ha	3 L/ha	
	Roxy 800 EC	CZ	4929	prosulfocarb	EC	800 g/L	4 L/ha	4-5 L/ha	
		NL	13164 N	prosulfocarb	EC	800 g/L	Max. 5 L/ha	4-5 L/ha	
		FR	2090186	prosulfocarb	EC	800 g/L	Max. 5 L/ha	4-5 L/ha	
		IT	012799	prosulfocarb	EC	800 g/L	3.8-5 L/ha	4-5 L/ha	Registered on wheat and barley: 3.8-4 L/ha on rye and triticale: 5 L/ha
		DE	008975-00	prosulfocarb	EC	800 g/L	5 L/ha	4-5 L/ha	
		PL	R-31/2016 wu	prosulfocarb	EC	800 g/L	4 L/ha	4 L/ha	
	Filon 80 EC	HR	753	prosulfocarb	EC	800 g/L	3-5 L/ha	3-5 L/ha	
	Auros	ES	24737	prosulfocarb	EC	800 g/L	3-5 L/ha	3-5 L/ha	
	Défi	FR	8700462	prosulfocarb	EC	800 g/L	3-5 L/ha	5 L/ha	
	Fidox 800 EC	HU	04.2/2504	prosulfocarb	EC	800 g/L	3 L/ha	3 L/ha	
	Polarpec	ES	ES-00293	prosulfocarb	EC	800 g/L	4-5 L/ha	5 L/ha	
	Naceto	CZ	5265-0	diflufenican flufenacet	SC	200 g/L 400 g/L	0.6 L/ha	0.6 L/ha	
		DE	008362-60	diflufenican flufenacet	SC	200 g/L 400 g/L	0.6 L/ha	0.6 L/ha	
	Battle Delta	FR	016041	flufenacet diflufenican	SC	400 g/L 200 g/L	0.6 L/ha	0.6 L/ha	
		IT	016041	diflufenican flufenacet	SC	200 g/L 400 g/L	0.6 L/ha	0.6 L/ha	
	Fuga Delta	HR	1162	diflufenican flufenacet	SC	200 g/L 400 g/L	0.6 L/ha	0.6 L/ha	
Potato	Boxer 800 EC	PL	R-88/2015	prosulfocarb	EC	800 g/L	3-5 L/ha	3-5 L/ha	
		EE	0310/22.12.2008	prosulfocarb	EC	800 g/L	4 L/ha	3-4 L/ha	
		LV	0271	prosulfocarb	EC	800 g/L	4 L/ha	3-4 L/ha	
	Boxer	NL	10701	prosulfocarb	EC	800 g/L	5 L/ha	3-5 L/ha	
		CZ	4566-0	prosulfocarb	EC	800 g/L	5 L/ha	3-5 L/ha	
		DE	033838-00	prosulfocarb	EC	800 g/L	Max.5 L/ha	3-5 L/ha	
		RO	2787	prosulfocarb	EC	800 g/L	3-5 L/ha	5 L/ha	
	Roxy 800 EC	FR	2090186	prosulfocarb	EC	800 g/L	Max. 5 L/ha	3-5 L/ha	
		IT	012799	prosulfocarb	EC	800 g/L	5 L/ha	5 L/ha	

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Crop(s)	Reference standard	Country(ies) where the product is registered <sup>(1)</sup>	Authorization number	Active substance(s)	Formulation		Registered application rate <sup>(3)</sup>	Application rate in trials (per treatment)	Remark <sup>(4)</sup>
					Type <sup>(2)</sup>	Concentration of a.s.			
	Fidox 800 EC	HU	04.2/2504-1/2017	prosulfocarb	EC	800 g/L	5 L/ha	5 L/ha	
		NL	15029 N	prosulfocarb	EC	800 g/L	Max. 4 L/ha	4 L/ha	
	Filon 80 EC	HR	UP/I-320-20/09-01/655	prosulfocarb	EC	800 g/L	4-5 L/ha	5 L/ha	
	Défi	FR	8700462	prosulfocarb	EC	800 g/L	Max. 5 L/ha	3-5 L/ha	

(1) only on use(s) applied for (with the test product).

(2) e.g. WP (wetable powder), EC (emulsifiable concentrate), etc.

(3) dose(s) / dose range authorized on that use in the country.

(4) Other relevant information (e.g. uses, number of applications, spray volume, method of application, etc.).

### **3.2.1 Preliminary tests (KCP 6.1)**

GLOB1913H is an EC formulation containing 900 g/L of the active substance prosulfocarb.

Several formulations containing 800 g/L of prosulfocarb can be found in the EU market (e.g. ROXY, BOXER, DEFY) generally registered at a dose rate of 5 L/ha (providing 4,000 g a.s./ha) for the pre- and post- emergence use on cereals. Data are submitted in this application for the authorization of a 900 g/L formulation to be applied at roughly the same amount (4.4. L/ha providing 3,960 g a.s./ha) at its highest requested rate. Since this is a very well-known active substance, preliminary test to investigate the biological activity of the active substance were not required.

GLOB1913H was initially developed under the product code GLOB1318H (2018 and 2019 trials). This change is solely due to a change in applicant's internal numbering system. During the course of the testing seasons, the name Prosulfocarb 900 EC (2020-2021 trials) was also used in protocols. Prosulfocarb 900 CS (2018 and 2019 trials) was a slightly different formulation, but comparable from efficacy point of view. The CS notation was used to refer to the variant Containing Stabilizers and does not refer to a capsule suspension. Reference is made to the part C for details on composition of the different formulations.

Multiple field trials were set up by the applicant to test those slightly different formulations. The mean results of the final efficacy assessments are shown in the tables below.

A color grade scheme was used to highlight, for each weed, the efficacy among the formulations. The darker the green, the higher the efficacy.

It can be clearly concluded that both formulations GLOB1318H (synonym GLOB1913H) and Prosulfocarb 900 CS are comparable in terms of efficacy and thus all formulations tested can be used in support of GLOB1913H. Thus, table headers in section 3.2.2 and 3.2.3 report indiscriminately the name PROSULFOCARB 900 EC.

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### Pre-emergence application

**Table 3.2-11: Efficacy of different Prosulfocarb 900 g/L formulations tested on cereals – pre-emergence application - Maritime EPPO zone**

EPPO zone	Target code	Crop code	Grouping	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Crop BBCH at ass.	Nb. trials	DA-A	Infestation in the untreated control (PLANT/M2)		GLOB1318H at 4.4l/ha		PROSULFOCARB 900 CS at 4.4l/ha	
										Mean	Min & Max	Mean	Min & Max	Mean	Min & Max
MAR	ALOMY	YCERE	PRE - All	PLANT	0-8	0-65	39-75	9	204-249	34.3	5.8-94.75	64.8	30-96.5	71.0	15-99
	ALOMY	YCERE	PRE - All	EAR	0-8	0-3	39-75	9	190-249	94.9	12-252	57.9	24.99-96.21	66.1	34.22-96.4
	APESV	YCERE	PRE - All	PLANT	1-1	3-3	71-71	1	244-244	5.0	5-5	100.0	100-100	100.0	100-100
	APESV	YCERE	PRE - All	EAR	1-1	3-3	71-71	1	244-244	10.8	10.75-10.75	100.0	100-100	100.0	100-100
	POAAN	YCERE	PRE - All	PLANT	0-0	0-0	39-39	1	171-171	34.3	34.3-34.3	95.8	95.8-95.8	95.0	95-95
	AVEFA	YCERE	PRE - All	PLANT	0-0	0-0	65-65	1	238-238	10.5	10.5-10.5	54.8	54.75-54.75	49.8	49.75-49.75
	EPHHE	YCERE	PRE - All	PLANT	7-7	0-0	75-75	1	231-231	5.0	5-5	100.0	100-100	100.0	100-100
	FUMOF	YCERE	PRE - All	PLANT	0-7	0-5	37-75	3	184-231	16.4	12-22	91.4	89.3-95	87.1	80-91.25
	GALAP	YCERE	PRE - All	PLANT	0-1	0-3	37-75	4	188-246	15.4	5-25	86.9	68.75-100	93.2	81-100
	GERPU	YCERE	PRE - All	PLANT	1-1	5-5	37-37	1	188-188	9.0	9-9	100.0	100-100	100.0	100-100
	MATCH	YCERE	PRE - All	PLANT	0-0	0-0	65-65	1	213-213	22.3	22.25-22.25	86.3	86.25-86.25	98.8	98.75-98.75
	MATIN	YCERE	PRE - All	PLANT	0-1	0-3	65-75	4	238-249	35.3	5-101	64.8	32.5-99	48.1	13.75-80
	MYOAR	YCERE	PRE - All	PLANT	1-1	3-3	37-37	1	188-188	5.0	5-5	100.0	100-100	100.0	100-100
	PAPRH	YCERE	PRE - All	PLANT	0-7	0-5	65-75	5	190-249	33.3	5.75-81.5	67.6	35-99	66.2	26.25-99
	POLAV	YCERE	PRE - All	PLANT	0-0	0-0	65-65	1	238-238	19.3	19.25-19.25	77.5	77.5-77.5	75.0	75-75
	SCRAN	YCERE	PRE - All	PLANT	1-1	3-3	37-37	1	188-188	5.0	5-5	90.0	90-90	100.0	100-100
	SENVU	YCERE	PRE - All	PLANT	0-0	0-0	39-65	2	190-200	18.4	4.75-32	58.5	27.5-89.5	51.9	22.5-81.25
	SINAR	YCERE	PRE - All	PLANT	7-7	0-0	75-75	1	231-231	18.5	18.5-18.5	91.3	91.25-91.25	90.0	90-90
	STEME	YCERE	PRE - All	PLANT	0-0	0-0	26-69	4	97-249	23.0	6-61.5	99.2	98-100	99.2	98-100
	IVERG	YCERE	PRE - All	PLANT	0-7	0-0	21-75	4	147-231	24.1	7.25-58.3	94.1	90-100	90.4	75-97.5
	VIOAR	YCERE	PRE - All	PLANT	0-8	0-3	37-75	5	188-238	31.1	7-64.75	65.6	0-99	63.3	0-83.75

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**Table 3.2-12: Efficacy of different Prosulfocarb 900 g/L formulations tested on cereals – pre-emergence application – Poland trials (N-E EPPO zone)**

EPPO zone	Target code	Crop code	Grouping	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Crop BBCH at ass.	Nb. trials	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1318H at 2.6l/ha		PROSULFOCARB 900 CS at 2.6l/ha	
										Mean	Min & Max		Mean	Min & Max	Mean	Min & Max
PL (NE)	ALOMY	YCERE	PRE - AII	PLANT	0-0	0-0	63-63	1	209-209	13.7	13.7-13.7		75.0	75-75	75.0	75-75
	ALOMY	YCERE	PRE - AII	EAR	0-0	0-0	63-63	1	209-209	31.3	31.25-31.25		77.9	77.86-77.86	79.0	79.04-79.04
	APESV	YCERE	PRE - AII	PLANT	0-7	0-33	69-77	3	240-252	25.3	9-52		98.8	96.25-100	97.5	92.5-100
	APESV	YCERE	PRE - AII	EAR	0-7	0-33	65-77	4	233-252	64.8	9-196.5		98.1	92.43-100	97.6	90.25-100
	BRSNW	YCERE	PRE - AII	PLANT	5-5	0-0	37-37	1	200-200	10.0	10-10		90.0	90-90	90.0	90-90
	CAPBP	YCERE	PRE - AII	PLANT	0-0	10-10	37-37	1	213-213	19.5	19.5-19.5		100.0	100-100	100.0	100-100
	CENCY	YCERE	PRE - AII	PLANT	5-5	0-0	71-71	1	240-240	66.0	66-66		61.3	61.25-61.25	68.8	68.75-68.75
	GALAP	YCERE	PRE - AII	PLANT	0-7	0-8	37-77	5	200-252	9.4	5-18.3		90.6	77.5-99.75	89.9	73.75-98.75
	GERPU	YCERE	PRE - AII	PLANT	6-6	0-0	69-69	1	231-231	5.0	5-5		100.0	100-100	100.0	100-100
	MATIN	YCERE	PRE - AII	PLANT	0-5	0-0	37-77	4	200-252	14.8	6-34.5		76.3	55-95	75.3	56.25-90
	PAPRH	YCERE	PRE - AII	PLANT	0-7	0-12	37-77	5	200-252	9.9	5-18.5		75.3	47.5-100	73.5	47.5-100
	POAAN	YCERE	PRE - AII	PLANT	0-6	0-10	37-69	3	209-231	10.1	5-16		97.1	91.25-100	96.8	90.25-100
	POAAN	YCERE	PRE - AII	EAR	5-5	0-0	65-65	1	233-233	22.0	22-22		73.8	73.78-73.78	71.8	71.75-71.75
	STEME	YCERE	PRE - AII	PLANT	0-7	0-10	37-69	4	200-231	8.8	6-13.3		96.9	92.5-100	96.6	92.5-100
	IVERG	YCERE	PRE - AII	PLANT	0-6	0-51	37-69	3	200-231	8.8	5-12.5		95.8	87.5-100	95.8	87.5-100
	VIOAR	YCERE	PRE - AII	PLANT	0-5	0-0	37-77	3	200-252	23.7	12.7-31.5		74.6	66.25-80	68.4	52.5-76.3

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**Table 3.2-13: Efficacy of different Prosulfocarb 900 g/L formulations tested on cereals – pre-emergence application - Mediterranean EPPO zone**

EPPO zone	Target code	Crop code	Grouping	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Crop BBCH at ass.	Nb. trials	DA-A	Infestation in the untreated control (PLANT/M2)		GLOB1318H at 4.4l/ha		PROSULFOCARB 900 CS at 4.4l/ha	
										Mean	Min & Max	Mean	Min & Max	Mean	Min & Max
MED	AVEST	YCERE	PRE - All	EAR	1-6	0-0	65-83	2	182-219	6.4	5.3-7.5	92.5	85-100	92.9	85.83-100
	CHYCO	YCERE	PRE - All	PLANT	0-0	0-0	63-63	1	132-132	6.5	6.5-6.5	90.5	90.5-90.5	90.0	90-90
	GALAP	YCERE	PRE - All	PLANT	0-6	0-0	61-65	3	132-182	8.3	7.8-9.25	89.1	88.25-90	89.9	87-92.5
	LOLPE/ LOLRI/ LOLSS	YCERE	PRE - All	EAR	0-1	0-0	61-83	2	140-219	35.7	9.8-67	90.8	86.45-96.08	88.1	86.3-91.46
	LOLMU	YCERE	PRE - All	PLANT	0-0	0-0	61-61	1	140-140	18.3	18.3-18.3	89.5	89.5-89.5	87.5	87.5-87.5
	MATIN	YCERE	PRE - All	PLANT	0-6	0-0	61-66	4	132-182	24.4	7-71.5	76.0	55-88.25	72.8	45-87.75
	PAPRH	YCERE	PRE - All	PLANT	0-6	0-0	61-67	5	132-182	20.1	5-56.5	76.2	42.5-91.3	74.9	56.25-89.5
	POAAN	YCERE	PRE - All	PLANT	0-6	0-0	61-65	3	132-182	37.4	9.5-93.2	88.8	86.25-91.25	89.8	87.75-91.25
	SINAR	YCERE	PRE - All	PLANT	0-0	0-0	63-63	1	132-132	13.8	13.8-13.8	87.8	87.75-87.75	89.0	89-89
	STEME/ STELS	YCERE	PRE - All	PLANT	0-6	0-0	61-65	3	132-182	39.7	15.3-88.5	88.8	87.75-90	88.7	86.5-91.25

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### Post-emergence application

**Table 3.2-14: Efficacy of different Prosulfocarb 900 g/L formulations tested on cereals – post-emergence application - Maritime EPPO zone**

EPPO zone	Target code	Crop code	Grouping	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Crop BBCH at ass.	Nb. trials	DA-A	Infestation in the untreated control (PLANT/M2)		GLOB1318H at 4.4l/ha		PROSULFOCARB 900 CS at 4.4l/ha	
										Mean	Min & Max	Mean	Min & Max	Mean	Min & Max
MAR	ALOMY	YCERE	POST - AII	PLANT	11-13	0-12	39-75	8	174-244	106.0	9.8-490	54.9	0-99	57.0	0-99
	ALOMY	YCERE	POST - AII	EAR	11-13	0-12	39-75	9	174-244	157.7	15-490	64.0	24.28-98.44	64.7	12.77-98.44
	APESV	YCERE	POST - AII	PLANT	11-13	10-13	65-85	10	195-249	34.3	5-149	97.4	87.5-100	97.1	78.75-100
	APESV	YCERE	POST - AII	EAR	11-13	10-13	65-85	9	195-249	46.1	3-149	95.8	75.14-100	94.6	57.82-100
	1AVEG	YCERE	POST - AII	EAR	10-11	0-10	61-67	2	182-204	86.6	5.94-167.25	50.3	23.76-76.81	51.8	31.9-71.65
	CAPBP	YCERE	POST - AII	PLANT	11-11	10-10	39-39	1	200-200	19.0	19-19	96.5	96.5-96.5	95.0	95-95
	CENCY	YCERE	POST - AII	PLANT	11-13	10-13	65-85	8	170-249	19.7	5-71.5	53.3	0-100	57.8	0-100
	DESSO	YCERE	POST - AII	PLANT	12-12	10-10	39-39	1	193-193	5.0	5-5	100.0	100-100	100.0	100-100
	FUMOF	YCERE	POST - AII	PLANT	11-13	0-12	37-65	3	171-239	13.7	11-15	97.7	93-100	97.0	91-100
	GALAP	YCERE	POST - AII	PLANT	10-16	0-14	37-85	13	93-249	14.5	5-32.3	87.0	45-100	79.6	17.5-100
	1GERG	YCERE	POST - AII	PLANT	12-12	11-12	37-85	2	183-245	25.0	10-40	90.6	81.25-100	82.5	65-100
	LAMPU	YCERE	POST - AII	PLANT	16-16	10-10	37-37	1	93-93	10.0	10-10	87.5	87.5-87.5	97.5	97.5-97.5
	MATCH	YCERE	POST - AII	PLANT	11-13	0-11	39-85	5	200-245	22.4	5-42	70.6	0.3-99	59.9	10-100
	MATIN	YCERE	POST - AII	PLANT	10-13	0-12	37-75	9	183-239	30.6	5-96.5	50.7	0-100	58.1	0-100
	MYOAR	YCERE	POST - AII	PLANT	11-11	0-10	71-75	2	232-233	16.3	7-25.5	97.8	96.25-99.25	98.0	98-98
	PAPRH	YCERE	POST - AII	PLANT	11-13	0-12	37-79	11	170-249	22.5	5-99	56.3	0-100	57.8	0-100
	POAAN	YCERE	POST - AII	PLANT	11-16	0-12	60-75	2	110-232	23.0	18-28	88.9	78.75-99	96.4	93.75-99
	POAAN	YCERE	POST - AII	EAR	11-16	0-12	60-75	2	110-232	11.8	5.5-18	89.4	78.74-100	90.9	81.7-100
	SENVU	YCERE	POST - AII	PLANT	13-13	0-0	38-38	1	181-181	7.0	7-7	45.0	45-45	77.5	77.5-77.5
	STEME	YCERE	POST - AII	PLANT	10-16	0-14	37-71	11	93-249	20.6	6-83.8	89.8	25-100	81.5	13.5-100
	THLAR	YCERE	POST - AII	PLANT	11-13	10-14	39-65	2	200-239	29.0	8-50	100.0	100-100	100.0	100-100
	1VERG	YCERE	POST - AII	PLANT	10-16	0-12	37-71	6	93-239	13.3	7-19.8	91.7	50-100	91.7	50-100
	VICCR	YCERE	POST - AII	PLANT	11-11	12-12	75-75	1	232-232	8.5	8.5-8.5	92.8	92.75-92.75	93.8	93.75-93.75
	VIOAR	YCERE	POST - AII	PLANT	10-13	0-11	37-79	8	170-239	16.2	5-44.5	59.9	20-99	46.6	20-90

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**Table 3.2-15: Efficacy of different Prosulfocarb 900 g/L formulations tested on cereals – post-emergence application – Poland trials (N-E + Maritime EPPO zones)**

Note: 1 trial was conducted in the maritime part of Poland (western part of Odra River).

EPPO zone	Target code	Crop code	Grouping	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Crop BBCH at ass.	Nb. trials	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1318H at 2.6l/ha		PROSULFOCARB 900 CS at 2.6l/ha	
										Mean	Min & Max		Mean	Min & Max	Mean	Min & Max
NE	ALOMY	YCERE	POST - AII	PLANT	13-13	11-11	71-71	1	213-213	8.5	8.5-8.5		85.8	85.75-85.75	84.5	84.5-84.5
NE	ALOMY	YCERE	POST - AII	EAR	13-13	11-11	71-71	1	213-213	15.3	15.25-15.25		88.1	88.1-88.1	88.6	88.58-88.58
PL (NE+MAR)	APESV	YCERE	POST - AII	PLANT	11-12	10-11	67-83	2	226-245	29.3	27-31.5		100.0	100-100	97.5	95-100
PL (NE+MAR)	APESV	YCERE	POST - AII	EAR	11-13	10-12	67-83	4	222-245	62.3	12-172		98.9	95.41-100	97.7	92.63-100
NE	FUMOF	YCERE	POST - AII	PLANT	13-13	10-10	71-71	1	213-213	7.3	7.25-7.25		96.3	96.25-96.25	95.0	95-95
PL (NE+MAR)	GALAP	YCERE	POST - AII	PLANT	11-13	0-32	37-83	6	150-245	11.7	5-23		92.7	80-100	93.3	80-100
NE	LAMPU	YCERE	POST - AII	PLANT	11-11	0-0	67-67	1	150-150	5.0	5-5		100.0	100-100	100.0	100-100
PL (NE+MAR)	MATIN	YCERE	POST - AII	PLANT	11-13	0-12	37-83	6	150-245	9.9	5-23.5		64.4	12.5-96.25	63.3	5-96.25
NE	MYOAR	YCERE	POST - AII	PLANT	13-13	11-11	71-71	1	213-213	7.3	7.25-7.25		92.5	92.5-92.5	92.5	92.5-92.5
PL (NE+MAR)	PAPRH	YCERE	POST - AII	PLANT	11-13	0-13	37-83	5	194-245	11.0	5.3-23		75.9	37.5-99.25	73.1	45-98
NE	POAAN	YCERE	POST - AII	PLANT	11-13	0-11	37-71	3	201-222	8.7	5-10.8		96.8	90.25-100	96.3	89-100
NE	POAAN	YCERE	POST - AII	EAR	12-12	11-11	69-69	1	222-222	24.0	24-24		73.8	73.75-73.75	72.3	72.29-72.29
NE	STEME	YCERE	POST - AII	PLANT	11-13	0-12	37-67	4	181-222	8.6	6-10.5		71.6	2.5-97.5	73.8	12.5-96.3
NE	IVERG	YCERE	POST - AII	PLANT	11-12	0-12	37-67	3	194-222	8.8	5-13		96.3	90-100	96.3	88.8-100
NE	VIOAR	YCERE	POST - AII	PLANT	11-13	11-67	37-83	3	194-245	27.2	21.5-35		73.3	65-82.5	71.3	61.25-81.3

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**Table 3.2-16: Efficacy of different Prosulfocarb 900 g/L formulations tested on cereals – post-emergence application - Mediterranean EPPO zone**

EPPO zone	Target code	Crop code	Grouping	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Crop BBCH at ass.	Nb. trials	DA-A	Infestation in the untreated control (PLANT/M2)		GLOB1318H at 4.4l/ha		PROSULFOCARB 900 CS at 4.4l/ha	
										Mean	Min & Max	Mean	Min & Max	Mean	Min & Max
MED	ALOMY	YCERE	POST - All	PLANT	13-13	0-0	53-53	1	162-162	6.0	6-6	100.0	100-100	100.0	100-100
	APESV	YCERE	POST - All	PLANT	12-13	11-13	65-71	4	108-166	8.8	7.75-11	92.7	92-93.75	93.0	92.5-93.75
	APESV	YCERE	POST - All	EAR	12-14	11-13	65-73	5	108-166	9.3	5-20.25	96.9	89.99-100	97.1	90.08-100
	AVESP	YCERE	POST - All	PLANT	11-13	0-13	65-65	3	90-190	42.9	7-113	75.8	57.5-90	76.3	55-90
	AVESP	YCERE	POST - All	EAR	11-13	0-13	65-65	3	90-190	37.5	6.25-76.5	71.1	23.22-100	70.0	19.6-100
	CENCY	YCERE	POST - All	PLANT	12-13	12-12	65-69	5	123-166	12.1	7-29	87.3	72.5-96.25	86.3	63.75-95
	CHYSE	YCERE	POST - All	PLANT	13-13	15-15	65-65	1	90-90	12.0	12-12	65.0	65-65	60.0	60-60
	CLDAR	YCERE	POST - All	PLANT	13-13	15-15	65-65	1	90-90	10.0	10-10	63.8	63.75-63.75	62.5	62.5-62.5
	FUMOF	YCERE	POST - All	PLANT	23-23	14-14	71-71	1	109-109	6.3	6.3-6.3	87.8	87.75-87.75	95.0	95-95
	GALAP	YCERE	POST - All	PLANT	11-23	0-18	65-71	8	90-190	12.5	6-17.2	82.7	50-99	83.2	47.5-99
	GERDI	YCERE	POST - All	PLANT	13-13	12-12	65-65	1	95-95	53.0	53-53	81.3	81.25-81.25	83.8	83.75-83.75
	LAMAM	YCERE	POST - All	PLANT	14-14	11-11	65-65	1	107-107	33.3	33.3-33.3	41.3	41.25-41.25	36.3	36.25-36.25
	LAMPU	YCERE	POST - All	PLANT	13-13	10-10	65-65	1	95-95	8.0	8-8	86.3	86.25-86.25	95.0	95-95
	LOLMU	YCERE	POST - All	PLANT	12-13	11-13	65-69	3	160-166	8.1	7.25-9.5	93.3	92.5-93.75	94.2	92.5-96.25
	LOLMU	YCERE	POST - All	EAR	13-13	12-13	65-69	2	160-166	6.8	6-7.5	100.0	100-100	100.0	100-100
	LOLPE	YCERE	POST - All	EAR	12-12	12-12	67-67	1	164-164	53.5	53.5-53.5	100.0	100-100	100.0	100-100
	LOLRI	YCERE	POST - All	PLANT	13-14	12-12	65-69	3	107-123	40.5	10-60.3	93.8	91.25-96.25	94.6	92.5-97.5
	LOLRI	YCERE	POST - All	EAR	13-14	12-12	65-69	3	107-123	83.2	43.5-114	91.1	82.53-97.75	88.1	70.94-98.4
	MATIN	YCERE	POST - All	PLANT	11-14	0-12	65-69	8	107-190	62.4	15-98.5	58.8	21.25-95	59.4	22.5-96.25
	PAPRH	YCERE	POST - All	PLANT	11-23	0-16	52-71	12	90-190	32.4	6.3-84.5	75.9	30-95	69.4	10-95.5
	POAAN	YCERE	POST - All	PLANT	11-14	0-13	53-73	7	109-190	49.2	6.5-101	96.8	92.5-100	96.0	90-100
	POAAN	YCERE	POST - All	EAR	12-14	12-13	65-73	4	109-166	37.5	9.3-53.5	97.8	96.96-98.75	96.5	94.35-98.67
	SINAR	YCERE	POST - All	PLANT	13-13	14-14	65-65	1	90-90	11.0	11-11	67.5	67.5-67.5	62.5	62.5-62.5
	STEME	YCERE	POST - All	PLANT	11-14	0-14	65-73	6	108-190	52.6	22.5-83.7	89.5	86.25-97	89.9	84.5-97.25
	IVERG	YCERE	POST - All	PLANT	13-23	10-21	65-71	5	90-123	48.7	7-117	85.1	67.5-99	86.8	62.5-99
	VIOAR	YCERE	POST - All	PLANT	12-12	0-0	52-52	1	155-155	71.0	71-71	7.5	7.5-7.5	5.0	5-5

Comments of zRMS:	The applicant stated that several formulations containing 800 g/L of prosulfocarb can be found in the EU market (e.g. ROXY, BOXER, DEFY) generally registered at a dose rate of 5 L/ha (providing 4,000 g a.s./ha) for the pre- and post- emergence use on cereals. Since this is a very well-known active substance, preliminary tests to investigate the biological activity of the active substance were not required.
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	<p>Efficacy data against individual weed species is presented from two formulations: GLOB1318H (synonym GLOB1913H) and Prosulfocarb 900 CS. The applicant stated that the CS notation was used to refer to the variant Containing Stabilizers and does not refer to a capsule suspension.</p> <p>The applicant presented a comparison of the two formulations in field trials in which efficacy was directly compared. Based on the results presented, it can be assumed that the two formulations tested are comparable in terms of efficacy.</p>
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### 3.2.2 Minimum effective dose tests (KCP 6.2)

Reference is made to section 3.2.3 in which individual trial results including lower dose rates of GLOB1913H are presented. Field trials were carried out across several countries of the Maritime, North-East, South-East and Mediterranean EPPO Zones to fully reflect the range of climatic and agronomic conditions. Sites and application details of these trials and results are presented in Appendix 3 of the Biological Assessment Dossier.

A lower dose rate was included in most of the trials conducted on cereals and therefore detailed results are presented under point 3.2.3 Efficacy tests. A summary of the most representative results regarding the minimum effective dose are also shown and discussed here in section 3.2.2.1 for only those trials where the efficacy was evaluated in at least 2 increasing dose rates.

A lower dose rate was included in all trials conducted on potatoes and are presented in section 3.2.3. A summary of the most representative results regarding the minimum effective dose, evaluated at 100% of the maximum target dose rate as well as 60% and 36% of the full rate for potatoes are shown here in section 3.2.2.2.

The levels of weed control are displayed in summary tables reflecting the common EU scale as reported in the guidance SANCO/10055/2013 Rev. 4:

Weed species susceptibility	Level of control
Highly Susceptible (HS)	95 - 100 %
Susceptible (S)	85 - 94.9 %
Moderately Susceptible (MS)	70 - 84.9%
Moderately Tolerant (MT)	50 - 69.9%
Tolerant (T)	0 - 49.9 %

#### 3.2.2.1 Minimum effective dose on cereals

##### Pre-emergence application

A lower dose rate was included in most of the trials conducted on cereals and are presented in section 3.2.3. Those data are presented here in section 3.2.2.1, summarizing the most representative results from trials where a lower dose rate was tested and for weeds that occurred in at least 2 trials.

A total of 44 efficacy trials were presented (21 trials belonging to the Maritime EPPO Zone, 12 trials, belonging to the North-East EPPO Zone and 11 trials belonging to the Mediterranean EPPO zone).

The efficacy of the requested rates was compared with at least one lower dose rate. The difference from the tested 4.4 L/ha and the maximum proposed rate of 4 L/ha can be considered a minor difference in the rate since the amount of active substance is changed by no more than 10%.

GLOB1913H was tested at 4.4, 3.5 and 2.6 L/ha (3960, 3150, 2340 g of active substance/ha) Occasionally data at 2.1 and 2.7 L /ha were averaged with data at 2.6 L/ha. Few trials tested the lowest rates of 1.3-1.6 L/ha (1170-1440 g a.s./ha), where available those data are also indicated.

The rates reflect the maximum proposed label rate and 80% (3.5 L/ha) and 60% (2.6 L/ha) of the full recommended rate of GLOB1913H, in accordance with the EPPO standard PP 1/225 '*Minimum effective dose*'. A summary of the dose response results on cereals is provided in the tables below.

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## Results

### Maritime EPPO zone

#### Grasses

**Table 3.2-17: Minimum effective dose of GLOB1913H (Prosulfocarb 900 EC) on cereals against grasses at 4.4, 3.5 and 2.6 L/ha – pre-emergence application – Maritime EPPO zone**

EPPO zone	Target code	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Nb. Trials	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 2.6-2.7l/ha			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 CS at 4.4l/ha		
						Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn
MAR	ALOMY	PLANT	0-8	0-65	9	34.3	5.8-94.8	23.5	61.8	23.8-95	61.3	68	40-99	71.3	71	15-99	80
		EAR	0-8	0-3	9	94.9	12-252	64.8	58.1	24-92.7	58.9	57.9	31.9-96.3	52.5	66.1	34.2-96.4	64
	APESV	PLANT	0-1	0-3	3	7	05-10	6	98.3	95-100	100	100	100-100	100	-	-	-
		EAR	0-7	0-3	5	41.2	5-131	10.8	90.3	73.9-100	97	97.2	86.7-100	100	-	-	-
	AVEFA	PLANT	0-6	0-0	2	14.8	10.5-19	14.8	46.1	45-47.3	46.1	59.8	40-79.5	59.8	47.4	45-49.8	47.4

#### Broad Leaved

**Table 3.2-18: Minimum effective dose of GLOB1913H (Prosulfocarb 900 EC) on cereals against broadleaved weeds at 4.4, 3.5 and 2.6 L/ha – pre-emergence application – Maritime EPPO zone**

EPPO zone	Target code	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Nb. Trials	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 2.6-2.7l/ha			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 CS at 4.4l/ha		
						Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn
MAR	FUMOF	PLANT	0-7	0-5	3	16.4	12-22	15.3	86.7	80-95	85.0	90.0	80-100	90.0	87.1	80-91.3	90.0
	GALAP	PLANT	0-6	0-3	5	13.3	5-25	12.5	79.5	40-100	86.0	76.3	35-100	86.3	85.8	56.3-100	92.8
	MATIN	PLANT	0-1	0-3	4	35.3	5-101	17.6	25.0	11.3-40	24.4	47.2	30-70	44.4	48.1	13.8-80	49.4
	PAPRH	PLANT	0-7	0-5	5	33.3	5.8-81.5	18.0	64.7	28.8-99.8	63.8	58.1	15-95	60.0	66.2	26.3-99	70.0
	SENVU	PLANT	0-0	0-0	2	18.4	4.8-32	18.4	55.6	37.5-73.8	55.6	54.9	22.5-87.3	54.9	51.9	22.5-81.3	51.9
	STEME	PLANT	0-0	0-0	4	23.0	6-61.5	12.2	97.8	95-100	98.0	98.9	97-100	99.4	99.2	98-100	99.4
	1VERG	PLANT	0-7	0-0	5	20.9	7.3-58.3	14.0	80.8	40-100	92.5	84.7	58.8-95	89.8	85.4	65-97.5	94.3
	VIOAR	PLANT	0-8	0-3	6	33.2	7-64.8	30.0	54.8	0-82.5	61.9	56.5	0-86.3	68.8	58.3	0-83.8	76.3

North-East EPPO zone

Grasses

**Table 3.2-19: Minimum effective dose of GLOBAL1913H (Prosulfocarb 900 EC) on cereals against grasses at 4.4, 3.5, 2.6 and 1.6 L/ha – pre-emergence application – North-East EPPO zone**

Means valid for Poland (when available, CZ and DE trials included in mean calculation)

EPPO zone	Target code	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Nb. Trials	Infestation in the untreated control (PLANT/M2)			PROPULFOCARB 900 EC at 1.3-1.6l/ha			PROPULFOCARB 900 EC at 2.6-2.7l/ha			PROPULFOCARB 900 EC at 3.5l/ha			PROPULFOCARB 900 EC at 4.4l/ha		
						Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn
NE (+CZ,DE)	ALOMY	PLANT	0-8	0-3	5	33.3	5.8-94.8	21.3	-	-	-	56.8	23.8-95	55.0	68.7	40-99	72.5	66.2	15-99	68.8
		EAR	0-8	0-3	5	124.8	32.5-252	74.0	-	-	-	54.9	24-92.7	49.8	62.5	31.9-96.3	52.5	68.6	34.2-96.4	64.0
NE (+CZ,DE)	APESV	PLANT	0-7	0-3	5	7.9	3.7-15	6.0	-	-	-	92.8	67.5-100	98.8	95.8	80-100	100.0	-	-	-
		EAR	0-7	0-3	5	35.8	10-131	12.0	-	-	-	98.5	95.8-100	98.8	98.9	94.6-100	100.0	-	-	-
NE (+CZ,DE)	POAAN	PLANT	0-6	0-10	4	12.3	5-19	12.6	85.3	62.5-100	89.4	90.4	71.3-100	95.1	-	-	-	-	-	-
		EAR	0-5	0-10	2	11.0	0-22	11.0	81.3	62.5-100	81.3	85.9	71.8-100	85.9	-	-	-	-	-	-

Broad Leaved

**Table 3.2-20: Minimum effective dose of GLOBAL1913H (Prosulfocarb 900 EC) on cereals against broadleaved at 4.4, 3.5, 2.6 and 1.6 L/ha – pre-emergence application – North-East EPPO zone**

Means valid for Poland (when available, CZ and DE trials included in mean calculation)

EPPO zone	Target code	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Nb. Trials	Infestation in the untreated control (PLANT/M2)			PROPULFOCARB 900 EC at 1.3-1.6l/ha			PROPULFOCARB 900 EC at 2.6-2.7l/ha			PROPULFOCARB 900 EC at 3.5l/ha			PROPULFOCARB 900 EC at 4.4l/ha		
						Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn
NE (+CZ,DE)	FUMOF	PLANT	0-1	0-5	2	13.7	12-15.3	13.7	-	-	-	82.5	80-85	82.5	90.0	80-100	90.0	85.0	80-90	85.0
NE (+CZ,DE)	GALAP	PLANT	0-1	0-3	3	16.3	5-25	19.0	-	-	-	90.5	80-100	91.5	93.8	86.3-100	95.0	97.3	92.8-100	99.0
NE (+CZ,DE)	MATIN	PLANT	0-8	0-3	3	4.9	1.8-8	5.0	-	-	-	50.4	11.3-100	40.0	71.3	43.8-100	70.0	75.4	46.3-100	80.0
NE (+CZ,DE)	VIOAR	PLANT	1-8	0-3	3	24.9	7-56.3	11.3	-	-	-	43.3	0-80	50.0	45.8	0-70	67.5	54.6	0-83.8	80.0

### **South-East EPPO zone**

In the South-East EPPO zone data were generated at a single dose rate (2.6 L/ha). Reference is made to point 3.2.3 and to data generated in other climatic zones.

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Mediterranean EPPO zone

Grasses

Table 3.2-21: Minimum effective dose of GLOB1913H (Prosulfocarb 900 EC) on cereals against grasses at 4.4, 3.5 and 2.6 L/ha – pre-emergence application – Mediterranean EPPO zone

EPPO zone	Target code	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Nb. Trials	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 2.6-2.7l/ha			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 4.4l/ha		
						Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn
MED	AVEST	PLANT	6-6	0-0	1	7.5	7.5-7.5	7.5	62.5	62.5-62.5	62.5	83.8	83.8-83.8	83.8	82.5	82.5-82.5	82.5
		EAR	1-6	0-0	2	6.4	5.3-7.5	6.4	76.0	71.7-80.4	76.0	80.4	60.8-100	80.4	92.9	85.8-100	92.9
MED	LOLMU	PLANT	0-1	0-0	4	11.9	5-18.3	12.2	76.4	57.5-96.3	76.0	82.9	70-97.5	82.0	90.6	85-100	88.8
		EAR	0-0	0-0	2	36.0	5-67	36.0	86.6	83.5-89.6	86.6	92.7	91.7-93.8	92.7	95.7	91.5-100	95.7
MED	LOLPE	PLANT	3-3	0-0	1	259.5	259.5-259.5	259.5	77.5	77.5-77.5	77.5	75.0	75-75	75.0	75.0	75-75	75.0
		EAR	1-3	0-0	2	151.2	9.8-292.5	151.2	67.1	54.2-80.1	67.1	62.7	51-74.3	62.7	69.4	52.4-86.5	69.4
MED	LOLRI	PLANT	1-3	0-0	2	11.0	7.5-14.5	11.0	42.5	15-70	42.5	55.0	25-85	55.0	75.0	62.5-87.5	75.0
		EAR	1-3	0-0	2	55.7	30.3-81	55.7	61.2	39.2-83.3	61.2	80.6	67.3-94	80.6	90.7	86.3-95.2	90.7
MED	POAAN	PLANT	0-6	0-0	4	42.1	9.5-93.2	32.9	75.8	65-90	74.1	87.3	77.5-95.6	88.1	90.9	87.8-94.4	90.8

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**Broad Leaved**

**Table 3.2-22: Minimum effective dose of GLOB1913H (Prosulfocarb 900 EC) on cereals against broadleaved at 4.4, 3.5 and 2.6 L/ha – pre-emergence application – Mediterranean EPPO zone**

EPPO zone	Target code	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Nb. Trials	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 2.6-2.7l/ha			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 4.4l/ha		
						Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn
MED	GALAP	PLANT	0-6	0-0	4	8.5	7.8-9.3	8.4	81.0	76.3-88.8	79.5	88.4	83.3-93.8	88.4	91.0	87-94.4	91.4
MED	MATIN	PLANT	0-6	0-0	4	24.4	7-71.5	9.5	54.7	17.5-77.5	61.9	68.1	28.8-84	79.8	72.8	45-87.8	79.1
MED	PAPRH	PLANT	0-6	0-0	8	27.4	5-86.8	16.3	63.0	26.3-93.8	67.5	71.7	30-98.8	70.0	78.2	56.3-100	78.8
MED	ISTEG	PLANT	0-6	0-0	7	33.7	4-88.5	24.0	82.1	70.8-98	80.0	89.6	76.3-98.8	93.1	91.5	82.5-100	91.3
MED	VERHE	PLANT	0-3	0-0	2	24.0	7-41	24.0	81.9	72.5-91.3	81.9	86.3	72.5-100	86.3	85.0	70-100	85.0

## Conclusion

The results show that the maximum requested dose rate of 4 L/ha with pre-emergence application on cereals provide the best control and most wide spectrum of grasses and broad leaved weeds controlled. Furthermore, for some weeds, a clear dose response relationship can be observed, with the highest dose rate having not only the highest efficacy, but also offering a more stable control throughout a wide range of climatic conditions.

Still, for some weeds a lower dose rate could be sufficient, depending on the weed species. In particular, the dose rate of 3.5 L/ha still provided good control on e.g. loose silky bent (APESV) wild chamomile (MATCH), cleavers GALAP, Italian ryegrass (LOLMU), common chickweed (STEME).

From the presented results it can be clearly concluded that for cereals it is also not advisable to go for dose rates lower than 2.6 L/ha. Therefore, the range of 3.5 to 4 L/ha should be claimed on the label for the best overall control. Lower rates (i.e. 2.6 L/ha) could still provide control on some weeds and may be authorized according to local practices. A full susceptibility scheme is presented in section 3.2.3.

Moreover, typical weed control schemes consist of a mixture of different active ingredients with different modes of action in order to lower the risk for development of resistance, where prosulfocarb is generally used at lower rates. In these conditions, GLOB1913H will provide a valuable tool following label recommendations.

### **Post-emergence application**

A lower dose rate was included in most of the trials conducted on cereals and are presented in section 3.2.3. Those data are presented here in section 3.2.2.1, summarizing the most representative results from trials where a lower dose rate was tested and for weeds that occurred in at least 2 trials.

A total of 59 efficacy trials were presented (36 trials belonging to the Maritime EPPO Zone, 14 trials, belonging to the North-East EPPO Zone and 9 trials belonging to the Mediterranean EPPO zone).

The efficacy of the requested rates were compared with at least one lower dose rate. The difference from the tested 4.4 L/ha and the maximum proposed rate of 4 L/ha can be considered a minor difference in the rate since the amount of active substance is changed by no more than 10%.

GLOB1913H was tested at 4.4, 3.5 and 2.6 L/ha (3960, 3150, 2340 g of active substance/ha) Occasionally data at 2.1 and 2.7 L /ha were averaged with data at 2.6 L/ha. Few trials tested the lowest rates of 1.3-1.6 L/ha (1170-1440 g a.s./ha), where available those data are also indicated.

The rates reflect the maximum proposed label rate and 80% (3.5 L/ha) and 60% (2.6 L/ha) of the full recommended rate of GLOB1913H, in accordance with the EPPO standard PP 1/225 '*Minimum effective dose*'.

A summary of the dose response results on cereals is provided in the tables below.

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## Results

### Maritime EPPO zone

#### Grasses

**Table 3.2-23: Minimum effective dose of GLOB1913H (Prosulfocarb 900 EC) on cereals against grasses at 4.4, 3.5 and 2.6 L/ha – post-emergence application – Maritime EPPO zone**

EPPO zone	Target code	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Nb. Trials	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 2.6-2.7l/ha			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 CS at 4.4l/ha		
						Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn
MAR	ALOMY	PLANT	11-13	0-12	8	106.0	9.8-490	49.6	46.2	0-93.5	36.3	54.2	0-95	51.9	57.0	0-99	56.9
	APESV	PLANT	11-12	10-13	5	40.3	6-149	7.3	94.6	86.3-100	99.0	95.5	86.3-100	98.8	94.3	78.8-100	99.0
	IAVEG	EAR	10-11	0-10	2	86.6	5.9-167.3	86.6	35.0	22.1-47.8	35.0	42.9	29.4-56.4	42.9	51.8	31.9-71.7	51.8

#### Broad Leaved

**Table 3.2-24: Minimum effective dose of GLOB1913H (Prosulfocarb 900 EC) on cereals against broadleaved weeds at 4.4, 3.5, 2.6 and 1.3 L/ha – post-emergence application – Maritime EPPO zone**

EPPO zone	Target code	Crop BBCH at appl.	Weed BBCH at appl.	Nb. Trials	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 1.3-1.6l/ha			PROSULFOCARB 900 EC at 2.6-2.7l/ha			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 CS at 4.4l/ha		
					Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn
MAR	CENCY	10-13	0-13	10	20.0	5-71.5	11.0	-	-	-	37.3	0-99.3	24.4	49.2	0-100	27.5	-	-	-
		11-13	12-13	3	32.8	10-71.5	17.0	-	-	-	12.9	0-31.3	7.5	15.0	0-25	20.0	24.2	0-47.5	25.0
	FUMOF	11-13	0-12	3	13.7	11-15	15.0	-	-	-	96.7	91-100	99.0	97.7	93-100	100.0	97.0	91-100	100.0
	GALAP	10-16	0-14	15	13.3	5-32.3	8.3	-	-	-	76.2	0-100	92.5	78.5	0-100	98.0	82.3	17.5-100	99.0
	IGERG	12-12	11-12	2	25.0	10-40	25.0	-	-	-	57.5	15-100	57.5	75.0	50-100	75.0	82.5	65-100	82.5
	MATCH	11-13	0-11	5	22.4	5-42	24.0	-	-	-	40.6	0-88.5	18.8	50.4	0-95	57.5	59.9	10-100	83.8
	MATIN	10-13	0-12	10	28.5	5-96.5	15.0	-	-	-	45.1	0-100	47.5	56.5	0-100	55.0	61.3	0-100	65.0
	MYOAR	11-12	0-10	3	13.6	7-25.5	8.3	-	-	-	80.3	50-95.8	95.0	81.3	50-97.5	96.3	-	-	-
		12-12	10-10	1	8.3	8.3-8.3	8.3	32.5	32.5-32.5	32.5	50.0	50-50	50.0	50.0	50-50	50.0	-	-	-
	PAPRH	11-13	0-12	13	20.3	5-99	10.0	-	-	-	61.3	0-100	77.5	61.9	0-100	80.0	62.9	0-100	81.3
		12-12	12-12	1	23.0	23-23	23.0	81.3	81.3-81.3	81.3	83.8	83.8-83.8	83.8	-	-	-	-	-	-
	SENVU	13-13	0-0	1	7.0	7-7	7.0	-	-	-	62.5	62.5-62.5	62.5	60.0	60-60	60.0	77.5	77.5-77.5	77.5

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	STEME	10-16	0-14	11	20.6	6-83.8	16.3	-	-	-	81.4	8.8-100	90.5	79.7	9.5-100	96.0	81.5	13.5-100	99.5
	THLAR	11-13	10-14	2	29.0	8-50	29.0	-	-	-	100.0	100-100	100.0	100.0	100-100	100.0	100.0	100-100	100.0
	1VERG	10-16	0-12	6	13.3	7-19.8	12.5	-	-	-	94.0	75-100	98.1	91.6	50-100	100.0	91.7	50-100	100.0
	VIOAR	10-13	0-11	9	15.6	5-44.5	13.0	-	-	-	38.6	0-98.8	31.3	48.8	15.5-100	50.0	52.5	20-100	50.0

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**North-East EPPO zone**

**Grasses**

**Table 3.2-25: Minimum effective dose of GLOB1913H (Prosulfocarb 900 EC) on cereals against grasses at 4.4, 3.5, 2.6 and 1.6 L/ha – post-emergence application – North-East EPPO zone**

Means valid for Poland (when available, CZ and DE trials included in mean calculation)

EPPO zone	Target code	Crop code	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Nb. Trials	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 1.6-1.7 L/ha			PROSULFOCARB 900 EC at 2.6-2.7L/ha			PROSULFOCARB 900 EC at 3.5L/ha			PROSULFOCARB 900 EC at 4.4L/ha		
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn
NE (+CZ,DE)	ALOMY	YCERE	PLANT	11-13	0-10	5	44.2	9.8-95	31.8	-	-	-	52	21.3-93.5	30	56.4	30-95	37.5	59.8	30-99	42.5
			EAR	11-13	0-10	6	108.6	15-265	62.8	-	-	-	63.8	21.5-95.2	71.8	67.1	30.9-95.1	76.6	72.6	29.3-98.4	89.1
	APESV	YCERE	PLANT	11-21	10-13	13	30.0	5-149	15	-	-	-	96.4	80-100	100	98.1	92.5-100	100	99	93.8-100	100
			EAR	11-21	10-12	11	37.8	3*-149	17	-	-	-	96.3	85.4-100	100	98.3	92.4-100	100	99.4	93.8-100	100
	POAAN	YCERE	PLANT	11-11	0-0	1	28.0	28-28	28	-	-	-	98.8	98.8-98.8	98.8	99	99-99	99	99	99-99	99
			EAR	11-11	0-0	1	5.5	5.5-5.5	5.5	-	-	-	100	100-100	100	100	100-100	100	100	100-100	100
			PLANT	11-13	0-11	4	11.0	5-18	10.6	86.9	66.3-100	90.6	90.7	73.8-100	94.5	-	-	-	-	-	-
			EAR	11-12	10-11	2	31.4	24-38.8	31.4	82.5	65-100	82.5	86.1	72.3-100	86.1	-	-	-	-	-	-
	CAPBP	YCERE	PLANT	11-21	10-15	2	13.5	8-19	13.5	-	-	-	79.2	67.5-90.8	79.2	80	66.3-93.8	80	88.1	81.3-95	88.1
	CENCY	YCERE	PLANT	11-14	10-13	10	17.7	5-71.5	8.5	-	-	-	34.6	0-99.3	15	49.2	0-100	30.6	59.8	0-100	48.8
	FUMOF	YCERE	PLANT	11-13	0-12	3	13.7	11-15	15	-	-	-	96.7	91-100	99	97.7	93-100	100	97	91-100	100
			PLANT	13-13	10-10	1	7.3	7.3-7.3	7.3	70	70-70	70	95	95-95	95	-	-	-	-	-	-
	GALAP	YCERE	PLANT	11-13	0-12	14	12.1	5-32.3	7.5	-	-	-	76.3	0-100	92.5	79.1	0-100	97.8	82.8	17.5-100	99.5
	MATCH	YCERE	PLANT	11-13	0-11	5	22.4	5-42	24	-	-	-	40.6	0-88.5	18.8	50.4	0-95	57.5	59.9	10-100	83.8
	MATIN	YCERE	PLANT	11-14	0-13	8	24.6	5-96.5	14.5	-	-	-	49.5	0-100	48.8	61	0-100	60.6	65.5	0-100	65
	MYOAR	YCERE	PLANT	11-11	0-10	2	16.3	7-25.5	16.3	-	-	-	95.4	95-95.8	95.4	96.9	96.3-97.5	96.9	98	98-98	98
			PLANT	13-13	11-11	1	7.3	7.3-7.3	7.3	86	86-86	86	92.5	92.5-92.5	92.5	-	-	-	-	-	-
	PAPRH	YCERE	PLANT	11-14	0-13	12	20.7	5-99	8.7	-	-	-	69.3	0-100	83.8	71.4	0-100	85.6	73.6	0-100	91.2
	STEME	YCERE	PLANT	11-21	0-14	10	18.3	5.3-83.8	10.5	-	-	-	80.8	8.8-100	90.3	83.2	9.5-100	94.6	88	13.5-100	99.3
	THLAR	YCERE	PLANT	11-13	10-14	2	29	8-50	29	-	-	-	100	100-100	100	100	100-100	100	100	100-100	100
			PLANT	11-13	0-10	3	12.9	9.8-18	11	-	-	-	97.5	92.5-100	100	99.9	99.8-100	100	100	100-100	100
	IVERG	YCERE	PLANT	11-12	0-12	3	8.8	5-13	8.5	95	85-100	100	96.3	88.8-100	100	-	-	-	-	-	-
	VICCR	YCERE	PLANT	11-11	12-12	1	8.5	8.5-8.5	8.5	-	-	-	82.5	82.5-82.5	82.5	82.5	82.5-82.5	82.5	93.8	93.8-93.8	93.8
	VIOAR	YCERE	PLANT	11-14	0-13	8	12.9	8-19	12	-	-	-	43	0-98.8	41.3	55.4	15.5-100	55.6	61.6	21.3-100	61.3

**Broad Leaved**

**Table 3.2-26: Minimum effective dose of GLOB1913H (Prosulfocarb 900 EC) on cereals against broadleaved at 4.4, 3.5, 2.6 and 1.6 L/ha – post-emergence application – North-East EPPO zone**

Means valid for Poland (when available, CZ and DE trials included in mean calculation)

EPPO zone	Target code	Crop code	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Nb. Trials	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 1.6-1.7 L/ha			PROSULFOCARB 900 EC at 2.6-2.7L/ha			PROSULFOCARB 900 EC at 3.5L/ha			PROSULFOCARB 900 EC at 4.4L/ha		
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn
NE (+CZ,DE)	CAPBP	YCERE	PLANT	11-21	10-15	2	13.5	8-19	13.5	-	-	-	79.2	67.5-90.8	79.2	80	66.3-93.8	80	88.1	81.3-95	88.1
	CENCY	YCERE	PLANT	11-14	10-13	10	17.7	5-71.5	8.5	-	-	-	34.6	0-99.3	15	49.2	0-100	30.6	59.8	0-100	48.8
	FUMOF	YCERE	PLANT	11-13	0-12	3	13.7	11-15	15	-	-	-	96.7	91-100	99	97.7	93-100	100	97	91-100	100
			PLANT	13-13	10-10	1	7.3	7.3-7.3	7.3	70	70-70	70	95	95-95	95	-	-	-	-	-	-
	GALAP	YCERE	PLANT	11-13	0-12	14	12.1	5-32.3	7.5	-	-	-	76.3	0-100	92.5	79.1	0-100	97.8	82.8	17.5-100	99.5
	MATCH	YCERE	PLANT	11-13	0-11	5	22.4	5-42	24	-	-	-	40.6	0-88.5	18.8	50.4	0-95	57.5	59.9	10-100	83.8
	MATIN	YCERE	PLANT	11-14	0-13	8	24.6	5-96.5	14.5	-	-	-	49.5	0-100	48.8	61	0-100	60.6	65.5	0-100	65
	MYOAR	YCERE	PLANT	11-11	0-10	2	16.3	7-25.5	16.3	-	-	-	95.4	95-95.8	95.4	96.9	96.3-97.5	96.9	98	98-98	98
			PLANT	13-13	11-11	1	7.3	7.3-7.3	7.3	86	86-86	86	92.5	92.5-92.5	92.5	-	-	-	-	-	-
	PAPRH	YCERE	PLANT	11-14	0-13	12	20.7	5-99	8.7	-	-	-	69.3	0-100	83.8	71.4	0-100	85.6	73.6	0-100	91.2
	STEME	YCERE	PLANT	11-21	0-14	10	18.3	5.3-83.8	10.5	-	-	-	80.8	8.8-100	90.3	83.2	9.5-100	94.6	88	13.5-100	99.3
	THLAR	YCERE	PLANT	11-13	10-14	2	29	8-50	29	-	-	-	100	100-100	100	100	100-100	100	100	100-100	100
	IVERG	YCERE	PLANT	11-13	0-10	3	12.9	9.8-18	11	-	-	-	97.5	92.5-100	100	99.9	99.8-100	100	100	100-100	100
			PLANT	11-12	0-12	3	8.8	5-13	8.5	95	85-100	100	96.3	88.8-100	100	-	-	-	-	-	-
	VICCR	YCERE	PLANT	11-11	12-12	1	8.5	8.5-8.5	8.5	-	-	-	82.5	82.5-82.5	82.5	82.5	82.5-82.5	82.5	93.8	93.8-93.8	93.8
	VIOAR	YCERE	PLANT	11-14	0-13	8	12.9	8-19	12	-	-	-	43	0-98.8	41.3	55.4	15.5-100	55.6	61.6	21.3-100	61.3

### **South-East EPPO zone**

In the South-East EPPO zone data were generated at a single dose rate (2.6 L/ha). Reference is made to point 3.2.3 and to data generated in other climatic zones.

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## Mediterranean EPPO zone

### Grasses

The table below shows the weighted mean from different plant parts assessed (plant and ears) and regardless of the reference product used for the original grouping of means as presented in the efficacy section below. Trials with late sowing were not included in the analysis.

**Table 3.2-27: Minimum effective dose of GLOB1913H (Prosulfocarb 900 EC) on cereals against grasses at 4.4, 3.5 and 2.6 L/ha – post-emergence application – Mediterranean EPPO zone**

EPPO zone	Target code	Original Grouping	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Nb. Trials	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 2.6-2.7/ha			PROSULFOCARB 900 EC at 3.5/ha			PROSULFOCARB 900 EC at 4.4/ha			Weighted mean at 2.6-2.7 L/ha	Weighted mean at 3.5 L/ha	Weighted mean at 4.4 L/ha	(nb. trials)
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn				
MED	ALOMY	vs. Roxy at 5 L/ha	PLANT	13-13	0-10	2	12.0	6-18	12.0	85.0	70-100	85.0	86.9	73.8-100	86.9	91.3	82.5-100	91.3	81.3	83.1	87.7	(2)
		vs. Roxy at 5 L/ha	EAR	13-13	10-10	1	18.0	18-18	18.0	74.0	74-74	74.0	75.5	75.5-75.5	75.5	80.7	80.7-80.7	80.7				
	APESV	vs. Roxy at 5 L/ha	PLANT	12-13	12-13	3	8.1	7.8-8.3	8.3	65.0	60-72.5	62.5	88.3	87.5-90	87.5	92.9	92.5-93.8	92.5	72.2	86.7	87.3	(4)
		vs. Roxy at 4 L/ha	PLANT	13-13	11-11	1	11.0	11-11	11.0	90.3	90.3-90.3	90.3	91.0	91-91	91.0	93.3	93.3-93.3	93.3				
		vs. Roxy at 5 L/ha	EAR	12-13	12-13	3	5.6	5-6.5	5.3	87.8	79.6-95	88.7	95.3	95-95.8	95.0	100.0	100-100	100.0				
		vs. Roxy at 4 L/ha	EAR	13-13	11-11	1	20.3	20.3-20.3	20.3	84.6	84.6-84.6	84.6	85.1	85.1-85.1	85.1	90.1	90.1-90.1	90.1				
	LOLMU	vs. Roxy at 5 L/ha	PLANT	12-13	10-13	5	8.5	7.3-11	7.5	61.5	50-70	62.5	77.3	57.5-90	81.3	87.8	66.3-96.3	92.5	69.7	81.8	89.7	(5)
		vs. Roxy at 5 L/ha	EAR	12-13	10-13	5	6.8	4.3-11	6.0	77.9	49.3-93.7	90.8	86.3	58.5-97.2	95.0	91.7	64.9-100	100.0				
	LOLRI	vs. Roxy at 5 L/ha	PLANT	10-14	10-12	4	33.5	10-60.3	31.8	88.1	77.5-95	90.0	88.1	72.5-96.3	91.9	93.4	90-97.5	93.1	86.4	86.9	90.7	(4)
		vs. Roxy at 5 L/ha	EAR	10-14	10-12	4	74.9	43.5-114	71.0	84.6	67.4-95.9	87.6	85.7	75.1-97.2	85.2	88.0	70.9-98.4	91.4				
	POAAN	vs. Roxy at 4 L/ha	PLANT	14-14	12-12	1	6.5	6.5-6.5	6.5	97.5	97.5-97.5	97.5	98.5	98.5-98.5	98.5	99.0	99-99	99.0	86.8	93.5	95.8	(5)
		vs. Roxy at 5 L/ha	PLANT	11-13	0-13	7	58.6	10.5-101	72.3	80.5	62.5-100	75.0	91.8	83.8-100	90.0	95.4	90-100	95.0				
		vs. Roxy at 4 L/ha	EAR	14-14	12-12	1	9.3	9.3-9.3	9.3	95.4	95.4-95.4	95.4	95.1	95.1-95.1	95.1	94.4	94.4-94.4	94.4				
		vs. Roxy at 5 L/ha	EAR	12-13	11-13	4	46.9	34.5-53.5	49.9	93.0	91.6-96.2	92.2	94.9	93.3-97.5	94.4	96.0	92.5-98.7	96.5				

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**Broad Leaved**

The table below shows the weighted mean regardless of the reference product used for the original grouping of means as presented in the efficacy section below. Trials with late sowing were not included in the analysis.

**Table 3.2-28: Minimum effective dose of GLOB1913H (Prosulfocarb 900 EC) on cereals against broadleaved at 4.4, 3.5 and 2.6 L/ha – post-emergence application – Mediterranean EPPO zone**

EPPO zone	Target code	Original Grouping	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Nb. Trials	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 2.6-2.7l/ha			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 4.4l/ha			Weighted mean at 2.6-2.7 L/ha	Weighted mean at 3.5 L/ha	Weighted mean at 4.4 L/ha	(nb. trials)
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn				
MED	CENCY	vs. Roxy at 5 L/ha	PLANT	12-13	12-12	5	12.1	7-29	7.8	68.8	52.5-86.3	70.0	82.0	61.3-90	85.0	86.3	63.8-95	93.8	68.8	82.0	86.3	(5)
	GALAP	vs. Roxy at 4 L/ha	PLANT	13-23	18-18	2	12.5	11.5-13.5	12.5	93.5	88-99	93.5	94.5	90-99	94.5	96.0	93-99	96.0	70.8	80.6	84.4	(8)
		vs. Roxy at 5 L/ha	PLANT	11-14	0-14	6	13.3	8.8-17.2	13.7	65.4	45-90	67.5	79.4	50-92.5	81.9	84.2	47.5-93.8	90.0				
	MATIN	vs. Roxy at 5 L/ha	PLANT	11-14	0-12	8	62.4	15-98.5	69.4	43.4	20-67.5	40.6	56.6	21.3-90	61.9	59.4	22.5-96.3	57.5	43.4	56.6	59.4	(8)
	PAPRH	vs. Roxy at 4 L/ha	PLANT	12-23	0-16	3	8.0	6.3-11	6.8	59.8	0-91	88.5	59.7	0-93	86.0	62.7	10-95.5	82.5	62.3	69.3	73.7	(15)
		vs. Roxy at 5 L/ha	PLANT	10-14	0-13	12	36.0	6-84.5	31.0	64.0	30-93.8	60.0	71.8	25-95	76.9	76.9	30-100	83.1				
	STEME	vs. Roxy at 4 L/ha	PLANT	13-14	12-14	2	25.8	22.5-29	25.8	87.0	81.5-92.5	87.0	89.4	83.3-95.5	89.4	90.9	84.5-97.3	90.9	77.4	85.0	90.7	(10)
		vs. Roxy at 5 L/ha	PLANT	10-13	0-14	8	43.5	5-83.7	53.1	75.0	55-100	66.3	83.9	60-100	81.9	90.7	75-100	90.0				
	IVERG	vs. Roxy at 4 L/ha	PLANT	23-23	21-21	1	13.5	13.5-13.5	13.5	99.0	99-99	99.0	99.0	99-99	99.0	99.0	99-99	99.0	85.5	86.9	89.4	(3)
		vs. Roxy at 5 L/ha	PLANT	13-13	10-12	2	7.4	7-7.8	7.4	90.6	81.3-100	90.6	91.3	82.5-100	91.3	90.0	80-100	90.0				

## Conclusion

The results show that the maximum requested dose rate of 4 L/ha with post-emergence application on cereals provide the best control and most wide spectrum of grasses and broad leaved weeds controlled. Furthermore, for some weeds, a clear dose response relationship can be observed, with the highest dose rate having not only the highest efficacy, but also offering a more stable control throughout a wide range of climatic conditions.

Still, for some weeds a lower dose rate could be sufficient, depending on the weed species. In particular, the dose rate of 3.5 L/ha still provided good control on e.g. loose silky bent (APESV), annual meadowgrass (POAAN), annual rye-grass (LOLRI), common fumitory (FUMOF), *Veronica* species, common chickweed (STEME).

From the presented results it can be clearly concluded that for cereals it is also not advisable to go for dose rates lower than 2.6 L/ha. Therefore, the range of 3.5 to 4 L/ha should be claimed on the label for the best overall control. Lower rates (i.e. 2.6 L/ha) could still provide control on some weeds and may be authorized according to local practices. A full susceptibility scheme is presented in section 3.2.3.

Moreover, typical weed control schemes consist of a mixture of different active ingredients with different modes of action in order to lower the risk for development of resistance, where prosulfocarb is generally used at lower rates. In these conditions, GLOB1913H will provide a valuable tool following label recommendations.

### **3.2.2.2 Minimum effective dose on potatoes (pre-emergence application)**

A lower dose rate was included in all trials conducted on potatoes and are presented in section 3.2.3. A total of 25 efficacy trials were presented (12 trials belonging to the Maritime EPPO Zone, 8 trials, belonging to the North-East EPPO Zone, 3 trials belonging to the South-East EPPO Zone, 2 trials belonging to the Mediterranean EPPO Zone).

A summary of the most representative results (weeds occurred in at least 2 trials) regarding the minimum effective dose on potatoes are shown in the tables below. The efficacy of the maximum advised dose rate (4.4 L/ha) was compared with at least one lower dose rate, i.e. 2.6 and 1.6-1.7 L/ha (60 and 36%) in the Maritime EPPO zone, 3.6, 2.6 and 1.6-1.7 L/ha (82, 60 and 36%) in the North-East EPPO zone, as well as 2.6 L/ha (60%) in the South-East and Mediterranean EPPO zones.

### **Results**

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Maritime EPPO zone

**Table 3.2-29: Minimum effective dose of GLOB1913H (Prosulfocarb 900 EC) on potatoes at 100, 60 and 36% of the maximum proposed label rate– Maritime EPPO zone**

EPPO zone	Weed group	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 1.6 L/ha 36%			GLOB1913H at 2.6 L/ha 60%			GLOB1913H at 4.4 L/ha 100%		
								Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn
MAR	grasses	ECHCG	5	1.6 & 2.6 & 4.4 L/ha	19-39	11-65	33-59	27.2	5.3-103	8.0	53.0	17.5-76.3	66.3	66.9	25-96.8	70.0	70.4	22.5-100	72.5
MAR	broad leaved	CHEAL	7	1.6 & 2.6 & 4.4 L/ha	38-69	14-89	39-63	19.6	4.8-43	19.0	53.8	6.3-100	60.0	66.6	25.3-100	70.0	79.9	67.5-100	78.8
		MATIN	2	1.6 & 2.6 & 4.4 L/ha	39-39	51-51	39-43	10.3	9.5-11	10.3	65.0	50-80	65.0	75.0	65-85	75.0	81.3	77.5-85	81.3
		POLCO	2	1.6 & 2.6 & 4.4 L/ha	39-39	55-65	60-62	13.0	5-21	13.0	17.5	12.5-22.5	17.5	45.0	27.5-62.5	45.0	57.5	22.5-92.5	57.5
		SOLNI	4	1.6 & 2.6 & 4.4 L/ha	35-39	22-79	35-62	37.2	5-99.5	22.1	74.0	67.5-78	75.3	76.7	67.5-81.8	78.8	82.1	72.5-92.8	81.5
		THLAR	2	1.6 & 2.6 & 4.4 L/ha	39-39	71-89	39-43	18.5	7-30	18.5	96.3	92.5-100	96.3	96.9	93.8-100	96.9	98.8	97.5-100	98.8

### **North-East EPPO zone**

As an even lower rate of 1.6/1.7 L/ha was included in part of the trials conducted in the North-East EPPO zone (4 out of 8 trials), results of this dose rate are not presented in section 3.2.3. Those data are presented here instead, summarizing trials where the effective dose was thus evaluated at 100%, 82%, 60, as well as 36% of ther full rate.

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**Table 3.2-30: Minimum effective dose of GLOB1913H (Prosulfocarb 900 EC) on potatoes at 100, 82, 60 and 36% of the proposed label rate– North-East EPPO zone**

KCP	Weed Code	Variety	Rating Date	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	UNTREATED			GLOB1913H 900 g/L EC 1.6-1.7 L/ha 1440 - 1530 g a.s./ha 36%	GLOB1913H 900 g/L EC 2.6 L/ha 2340 g a.s./ha 60%	GLOB1913H 900 g/L EC 3.6 L/ha 3240 g a.s./ha 82%	GLOB1913H 900 g/L EC 4.4 L/ha 3960 g a.s./ha 100
							pl/m2	%control	SNK				
KCP 6.2-179	AMARE	Bellarosa	10/06/19	31	16	25	7.25	0 d		100 a	97.5 a		100 a
KCP 6.2-193		Lilly	15/06/20	36	12	32	5	0			100 -		100 -
KCP 6.2-194		Melody	29/06/20	39	61	42	29.75	0			80 -		85 -
KCP 6.2-191	CAPBP	Teele	03/07/20	31	55	17	11.5	0			100 -	100 -	
KCP 6.2-192		Solist	29/06/20	39	18	33	55.7	0			82.5 ab	83.5 ab	
KCP 6.2-178	CHEAL	LILLY	14/06/19	39	67	39	10.5	0		58.75 c	77.5 b		88.75 ab
KCP 6.2-179		Bellarosa	10/06/19	31	16	25	8	0 -		100 -	100 -		100 -
KCP 6.2-180		Gala	12/06/19	36	35	37	13	0		50 d	92.5 c		100 a
KCP 6.2-181		Kuras	05/07/19	39	59	56	14	0		77.5 d	83.75 c		88.75 b
KCP 6.2-193		Lilly	15/06/20	36	16	32	20	0			82.5 b		85 ab
KCP 6.2-191		Teele	03/07/20	31	55	17	10	0			50 -	77.25 -	
KCP 6.2-192		Solist	29/06/20	39	39	33	33.7	0			25 cd	35 bc	
KCP 6.2-178		LILLY	14/06/19	39	31	39	5.75	0		25 b	37.5 b		56.25 a
KCP 6.2-179	ECHCG	Bellarosa	10/06/19	31	18	25	66.7	0 c		90 ab	95 ab		96.25 a
KCP 6.2-180		Gala	12/06/19	36	32	37	11	0		62.5 c	93.75 b		95 b
KCP 6.2-181		Kuras	05/07/19	39	59	56	7	0		56.25 e	66.25 d		77.5 c
KCP 6.2-193		Lilly	15/06/20	36	21	32	7	0			42.5 ab		62.5 a
KCP 6.2-194		Melody	29/06/20	39	53	42	25.75	0			42.5 e		58.75 c
KCP 6.2-180	GASPA	Gala	12/06/19	36	33	37	14	0		52.5 d	93.75 c		100 a
KCP 6.2-181		Kuras	05/07/19	39	55	56	7	0		81.25 e	88.75 d		91.25 cd
KCP 6.2-180	MATIN	Gala	12/06/19	36	34	37	6	0		62.5 b	100 a		100 a
KCP 6.2-181		Kuras	05/07/19	39	61	56	13	0		77.5 e	83.75 cd		86.25 c
KCP 6.2-178	POLCO	LILLY	14/06/19	39	59	39	6	0		45 d	76.25 c		80 bc
KCP 6.2-180		Gala	12/06/19	36	36	37	15	0		47.5 e	83.75 d		97.5 a
KCP 6.2-193		Lilly	15/06/20	36	16	32	10	0			81.25 a		87.5 a
KCP 6.2-194		Melody	29/06/20	39	59	42	6.5	0			30 f		61.25 d
KCP 6.2-192		Solist	29/06/20	39	51	33	38.3	0			46.25 a	56.25 a	
KCP 6.2-178	POLPE	LILLY	14/06/19	39	33	39	6	0		98.75 -	82.5 -		100 -
KCP 6.2-181		Kuras	05/07/19	39	51	56	8	0		81.25 d	86.25 c		87.5 c
KCP 6.2-193		Lilly	15/06/20	36	12	32	6	0			92.5 -		90 -
KCP 6.2-181	SOLNI	Kuras	05/07/19	39	51	56	5	0		81.25 d	88.75 c		92.5 b
KCP 6.2-194		Melody	29/06/20	39	19	42	6.5	0			57.5 b		100 a

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KCP 6.2-178	VIOAR	LILLY	14/06/19	39	61	39	10	0	67.5 b	90 a		98.5 a
KCP 6.2-181		Kuras	05/07/19	39	59	56	5	0	78.75 e	85 d		92.5 b
KCP 6.2-191		Teele	03/07/20	31	55	17	8	0		45 b	82.5 a	

EPPO zone	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 1.6 L/ha 36%			GLOB1913H at 2.6 L/ha 60%			GLOB1913H at 3.6 L/ha 82%			GLOB1913H at 4.4 L/ha 100%		
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn
NE	ECHCG	6	2.6 & 4.4 L/ha	31-39	18-59	25-56	20.5	5.8-66.7	9.0	-	-	-	62.9	37.5-95	54.4	-	-	-	74.4	56.3-96.3	70.0
NE	AMARE	3	2.6 & 4.4 L/ha	31-39	12-61	25-42	14.0	5-29.8	7.3	-	-	-	92.5	80-100	97.5	-	-	-	95.0	85-100	100
NE (N reg.zone)	CAPBP	2	2.6 & 3.6 L/ha	31-39	18-55	17-33	33.6	11.5-55.7	33.6	-	-	-	91.3	82.5-100	91.3	91.8	83.5-100	91.8	-	-	-
NE	CHEAL	5	1.6 & 2.6 & 4.4 L/ha	31-39	16-67	25-56	13.1	8-20	13.0	71.6	50-100	68.1	87.3	77.5-100	83.8	-	-	-	92.5	85-100	88.8
NE (N reg.zone)	CHEAL	2	2.6 & 3.6 L/ha	31-39	39-55	17-33	21.9	10-33.7	21.9	-	-	-	37.5	25-50	37.5	56.1	35-77.3	56.1	-	-	-
NE	GASPA	2	1.6 & 2.6 & 4.4 L/ha	36-39	33-55	37-56	10.5	7-14	10.5	66.9	52.5-81.3	66.9	91.3	88.8-93.8	91.3	-	-	-	95.6	91.3-100	95.6
NE	MATIN	2	1.6 & 2.6 & 4.4 L/ha	36-39	34-61	37-56	9.5	6-13	9.5	70.0	62.5-77.5	70.0	91.9	83.8-100	91.9	-	-	-	93.1	86.3-100	93.1
NE	POLCO	4	2.6 & 4.4 L/ha	36-39	16-59	32-42	9.4	6-15	8.3	-	-	-	67.8	30-83.8	78.8	-	-	-	81.6	61.3-97.5	83.8
NE (N reg.zone)	POLCO	1	2.6 & 3.6 L/ha	39	51	33	38.3	-	-	-	-	-	46.3	-	-	56.3	-	-	-	-	-
NE	POLPE	3	2.6 & 4.4 L/ha	36-39	12-51	32-56	6.7	6-8	6.0	-	-	-	87.1	82.5-92.5	86.3	-	-	-	92.5	87.5-100	90.0
NE	SOLNI	2	2.6 & 4.4 L/ha	39-39	19-51	42-56	5.8	5-6.5	5.8	-	-	-	73.1	57.5-88.8	73.1	-	-	-	96.3	92.5-100	96.3
NE	VIOAR	2	1.6 & 2.6 & 4.4 L/ha	39-39	59-61	39-56	7.5	5-10	7.5	73.1	67.5-78.8	73.1	87.5	85-90	87.5	-	-	-	95.5	92.5-98.5	95.5
NE (N reg.zone)	VIOAR	1	2.6 & 3.6 L/ha	31	55	17	8	-	-	-	-	-	45.0	-	-	82.5	-	-	-	-	-

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**South-East EPPO zone**

**Table 3.2-31: Minimum effective dose of GLOB1913H (Prosulfocarb 900 EC) on potatoes at 100 and 60% of the proposed label rate– South-East EPPO zone**

EPPO zone	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 2.6 L/ha 60%			GLOB1913H at 4.4 L/ha 100%		
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn
SE	AMBEL	2	2.6 & 4.4 L/ha	39-39	17-55	40-76	10.5	6-15	10.5	59.6	30-89.3	59.6	76.3	60-92.5	76.3
SE	CHEAL	3	2.6 & 4.4 L/ha	39-39	21-35	40-46	13.7	6-20.2	15.0	79.6	70-92.5	76.3	87.9	82.5-95	86.3
SE	ECHCG	3	2.6 & 4.4 L/ha	39-39	17-49	40-46	5.8	4.5-7	6.0	83.9	70-92.5	89.3	90.4	83.8-95	92.5
SE	SOLNI	2	2.6 & 4.4 L/ha	39-39	24-35	44-46	6.5	6-7	6.5	44.4	20-68.8	44.4	54.4	26.3-82.5	54.4

**Mediterranean EPPO zone**

**Table 3.2-32: Minimum effective dose of GLOB1913H (Prosulfocarb 900 EC) on potatoes at 100 and 60% of the proposed label rate– Mediterranean EPPO zone**

EPPO zone	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			Prosulfocarb 900 EC at 2.6 L/ha			Prosulfocarb 900 EC at 4.4 L/ha		
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn
MED	CHEAL	2	All	32-39	18-51	42-49	8.0	6-10	8.0	66.3	57.5-75	66.3	73.8	67.5-80	73.8
MED	POROL	2	All	32-39	22-51	42-49	8.5	7-10	8.5	96.3	92.5-100	96.3	98.8	97.5-100	98.8

## Conclusion

The results show that the maximum requested dose rate of 4.4 L/ha with pre-emergence application on potatoes provide the best control on grasses and broad leaved weeds. Furthermore, for most of the weeds, a clear dose response relationship can be observed, with the highest dose rate having not only the highest efficacy, but also offering a more stable control throughout a wide range of climatic conditions.

Still, for some weeds a lower dose rate could be sufficient, depending on the weed species. In particular, in a limited set of trials in the North-East EPPO zone, the dose rate of 3.6 L/ha still provided good control on Shepherd's purse *Capsella bursa-pastoris* (CAPBP) and violet *Viola arvensis* (VIOAR). Also amaranth *Amaranthus retroflexus* (AMARE), scentless mayweed *Tripleurospermum inodorum* (MATIN), Black nightshade *Solanum nigrum* (SOLNI) and field pennycress *Thlaspi arvense* (THLAR) could be controlled with lower rates but for a reliable broad spectrum control, 4.4 L/ha is recommended across all zones. A full susceptibility scheme is presented in section 3.2.3.

Moreover, typical weed control schemes consist of a mixture of different active ingredients with different modes of action in order to lower the risk for development of resistance, where prosulfocarb is generally used at lower rates. In these conditions, GLOB1913H will provide a valuable tool following label recommendations.

Comments of zRMS:	<p><b>Cereals Use.</b></p> <p><b>Maritime zone</b></p> <p>A total of 21 pre-emergence efficacy trials and 36 post-emergence efficacy trials were submitted to fulfil the requirements to justify the minimum effective dose according to EPPO Guideline PP1/225 (1). GLOB1913H was tested at 4.4, 3.5 and 2.6 L/ha (3960, 3150, 2340 g of active substance/ha).</p> <p>Some dicot weeds were susceptible to GLOB1913H and did not show a marked dosage-response effect because they are well controlled (&gt;85%) even with the lowest application rate of 2.6 L/ha. Examples for these susceptible weeds are <i>Fumaria officinalis</i>, <i>Stellaria media</i> and grass <i>Apera spica-venti</i>. Also, post-emergence application showed a dose rate of 2.6 l/ha well control of <i>Veronica persica</i>, <i>Thlaspi arvense</i>, <i>Fumaria officinalis</i> and grass <i>Apera spica-venti</i>. The trials indicate that GLOB1913H applied at 2.6 l/ha gives the optimal control of these species (and others).</p> <p>The minimum effective rates of 2.6 and 3.5 L/ha GLOB1913H can be justified.</p> <p><b>North-east zone</b></p> <p>A total of 12 efficacy trials at pre-emergence and 14 at post-emergence were provided to fulfil the requirements of justifying the minimum effective dosage according to EPPO guideline PP1/225 (1). GLOB1913H in winter cereals was tested at application rates of the intended full application rate and at the reduced rates of 3.5 L/ha and 2.6 L/ha.</p> <p>Some dicot weeds were susceptible to GLOB1913H and did not show a marked dosage-response effect because they are well controlled (&gt;85%) even with the lowest application rate of 2.6 L/ha. Examples for these susceptible species are <i>Geranium pusillum</i>, <i>Veronica persica</i>, <i>Veronica hederifolia</i> and grasses <i>Apera spica-venti</i>, <i>Poa annua</i>. Also, post-emergence application showed a dose rate of 2.6 l/ha well control of <i>Fumaria officinalis</i>, <i>Geranium pusillum</i>, <i>Lamium purpureum</i>,</p>
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	<p><i>Myosotis arvensis</i>, <i>Thlaspi arvense</i>, <i>Veronica persica</i>, <i>Veronica hederifolia</i> and grasses <i>Apera spica-venti</i> and <i>Poa annua</i>.          The minimum effective rates of 2.6 and 3.5 L/ha GLOB1913H can be justified.</p> <p><b>No data was provided for the South-East EPPO zone.</b></p> <p><b>Potatoes use</b></p> <p>The efficacy of the maximum recommended rate (4.4 L/ha) was compared with at least one lower rate, i.e. 2.6 and 1.6-1.7 L/ha (60 and 36%) in the Maritime EPPO zone, 3.6, 2.6 and 1.6-1.7 L/ha (82, 60 and 36%) in the North-East EPPO zone and 2.6 L/ha (60%) in the South-East.</p> <p>Regardless of EPPO zone results obtained show that there was no clear increase in weed species susceptibility to GLOB1913H between the 2.6 and 4.4 L/ha rates, but the control achieved with the 4.4 L/ha rate was often higher than the control achieved with the lowest 2.6 L/ha rate.</p> <p>In the north-eastern zone, where data are available, a dose rate of 4.4 l/ha was much more effective against MATIN and VIOAR than a lower dose rate of 2.6 l/ha.</p>
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### **3.2.3 Efficacy tests (KCP 6.2)**

#### **3.2.3.1 Weed control on cereals**

In total, 135 efficacy trials were submitted to demonstrate the efficacy of GLOB1913H for the use on winter cereals. These trials were carried out between 2018 and 2021 by GEP certified research institutions in the Czech Republic, Denmark, France, Germany, Sweden, United Kingdom, the Netherlands and the maritime part of Poland (3 trials in western part of Odra River) (in total 68 trials belonging to the Maritime EPPO Zone), in Latvia and Poland (26 trials belonging to the North-East EPPO Zone), in Croatia, Romania and Hungary (5 trials belonging to the South-East EPPO Zone which included both pre and post-emergence applications in the same trials), as well as in Croatia, southern part of France, Italy and Spain (37 trials belonging to the Mediterranean EPPO Zone).

#### **Trial methodology**

Information on trial methodology is summarized in Table 3.2-33, Table 3.2-34, Table 3.2-35 and Table 3.2-36 for pre-emergence application and Table 3.2-37, Table 3.2-38, Table 3.2-39 and Table 3.2-40 for post-emergence application. Trial site information and application details are presented in Appendix 3 of the Biological Assessment Dossier.

All trials were carried out by testing facilities, or organisations, officially recognised as competent to perform efficacy testing in accordance with the requirements of Directive 93/71/EEC, and with the principles of GEP. Copies of certificates can be found in Appendix 4 of the Biological Assessment dossier.

According to the EPPO reference standard PP 1/93 (3) Weeds in cereals, a preliminary assessment of the weed population in terms of plant counting as well as soil coverage was performed in all trials. Following assessments were in general at 2 weeks after the application, during tillering (BBCH 21-29), around flag leaf emergence (BBCH 37-39) and a last assessment from the end of flowering until shortly before harvest.

Data were subjected to analysis of variance (ANOVA) at the 95% confidence level. When significant differences were found a Student-Newman-Keuls (SNK) Post-Hoc test was applied to separate the means. Treatment means with no letters in common are significantly different according to SNK test. Where no letter is presented no difference was registered among treatments.

The percentage of visual control at the final spring assessment containing enough weeds per square meters were summarized below for each weed. The final spring assessment, besides having a higher weed pressure compared to earlier assessments, also provides a long term view of the effects of the herbicide applied just after emergence. In very few cases, when the above criteria could not be met, an earlier assessment was chosen. The minimum population of 5 plants/m<sup>2</sup> was considered for validation of the trial and assessment.

The efficacy of the pre-emergence and the post-emergence applications are summarized separately, but for all winter cereals combined, because the BBCH range at application (for the respective application timings) was almost identical for all crops. Because of their highly similar morphology and the similar developmental stage at application (i.e. height and crop interception) the amount of product that reaches

the weeds can be considered the same. Therefore it is acceptable to summarize the efficacy data obtained in all winter cereals together (EPPO code YCERE).

The levels of weed control are displayed in summary tables reflecting the common EU scale as reported in the guidance SANCO/10055/2013 Rev. 4:

Weed species susceptibility	Level of control
Highly Susceptible (HS)	95 - 100 %
Susceptible (S)	85 - 94.9 %
Moderately Susceptible (MS)	70 - 84.9%
Moderately Tolerant (MT)	50 - 69.9%
Tolerant (T)	0 - 49.9 %

**Table 3.2-33: Details on trial methodology – pre-em application - Maritime EPPO zone**

<b>Guidelines</b>	General guidelines	PP 1/135(4), EPPO PP 1/152 (4), PP 1/181(4)
	Specific guidelines	EPPO PP 1/93(3)
<b>Experimental design</b>	Plot design	RCBD (26)
	Plot size	12-21.3 m <sup>2</sup>
	Number of replications	4 (26)
<b>Crop</b>	Trials per crop	Soft Winter wheat: 19 Winter barley: 4 Winter triticale: 2 Winter rye: 1
	Varieties per crop	Soft Winter wheat: Benchmark, Dagmar, DIDEROT, Euclide, Graham, Gravity, Julie, KWS LILI, KWS Zyatt, LG Mocca, Reform, Sheriff, SYSTEM, Talent, Tobak, Variety mixture Winter barley: Etincelle, KWS Kosmos, Fabian, SY Kingsbarn Winter triticale: Barolo, Talentro Winter rye: Daniello
	Sowing period	Soft Winter wheat: 05/09-24/11 Winter barley: 08-23/10 Winter triticale: 09-21/10 Winter rye: 16/10/2018
<b>Application</b>	Crop stage majority (BBCH) at application	Soft Winter wheat: <10 Winter barley:<10 Winter triticale:<10 Winter rye:<10
	Timing	Pre-emergence
	Pest stage majority (BBCH) at application (1)	ALOMY:0-3; 65 (1x) APESV:0-3 APHAR:0 ARBTH:0 AVEFA:0 CENCY:0-5 EPHHE:0 FUMOF:0 GALAP:0-3 GERPU:5 GERDI:0 MATCH:0 MATIN:0-3

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		MYOAR:3 PAPRH:0-5 POAAN:0 POLAV:0 SCRAN:3 SENVU:0 SINAR:0 STEME:0-5 VERAR:0 VERCH:0 VERHE:0 VERPE:0-5 VIOAR:0-5
	Number of applications	1
	Intervals between applications	-
	Spray volumes	150-300 L/ha
<b>Assessment</b>	Assessment types	% of weed coverage, number of weeds/m <sup>2</sup> , number of ears/m <sup>2</sup> , % control (on plant density), % phytotoxicity
	Assessment dates	First preliminary assessment at application timing. Depending on the trial, further assessments at: 2 weeks after the application, during tillering (BBCH 21-29), around flag leaf emergence (BBCH 37-39) from the end of flowering until shortly before harvest.
<b>Other relevant information</b>	Soil types	sandy loam, silty clay, calcareous loam, silt loam, clay loam, loamy clay, clay, fine clay loam, loam, sandy clay, sandy clay loam
	Natural / artificial inoculation	Natural infestation (26)
	Field / Greenhouse	Field conditions

**Table 3.2-34: Details on trial methodology – pre-em application - North-East EPPO zone**

<b>Guidelines</b>	General guidelines	PP 1/135(4), EPPO PP 1/152 (4), PP 1/181(4)
	Specific guidelines	EPPO PP 1/93(3)
<b>Experimental design</b>	Plot design	RCBD (12)
	Plot size	12-21 m <sup>2</sup>
	Number of replications	4 (12)
<b>Crop</b>	Trials per crop	Soft Winter wheat: 6
		Winter barley: 2
		Winter triticale: 2
		Winter rye: 2
	Varieties per crop	Soft Winter wheat: Arezzo, Julius, Skagen, Norenos, Delawar, Skagen
		Winter barley: KWS Ariane, Zita
		Winter triticale: Securo, Grenado
		Winter rye: Dańkowskie Diament, KWS Gatano
	Sowing period	Soft Winter wheat: 15/09-21/10
		Winter barley: 29/09-10/10
		Winter triticale: 02-12/10
		Winter rye: 08-22/10

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<b>Application</b>	Crop stage majority (BBCH) at application	Soft Winter wheat: <10 Winter barley:<10 Winter triticale:<10 Winter rye:<10
	Timing	Pre-emergence
	Pest stage majority (BBCH) at application (1)	ALOMY:0-0 APESV:0-8; 33(1x) BRSNW:0-0 CAPBP:10-10 CENCY:0-0 GALAP:0-8 GERPU:0-3 LAMPV:0-0 MATIN:0-3 PAPRH:0-12 POAAN:0-10 POLAV:0-0 POLCO:0-0 STEME:0-10 VERAG:0-0 VERHE:0-3 VERPE:0(1x); 51(1x) VIOAR:0-3; 55(1x)
	Number of applications	1
	Intervals between applications	-
	Spray volumes	200-300 L/ha
	Assessment types	% of weed coverage, number of weeds/m2, number of ears/m2, % control (on plant density), % phytotoxicity
	Assessment dates	First preliminary assessment at application timing. Depending on the trial, further assessments at: 2 weeks after the application, during tillering (BBCH 21-29), around flag leaf emergence (BBCH 37-39) from the end of flowering until shortly before harvest.
<b>Other relevant information</b>	Soil types	sandy loam, loamy sand, loam
	Natural / artificial inoculation	Natural infestation (10) Artificial weed sowing (2)
	Field / Greenhouse	Field conditions

**Table 3.2-35: Details on trial methodology – pre-em application - South-East EPPO zone**

<b>Guidelines</b>	General guidelines	PP 1/135(4), EPPO PP 1/152 (4), PP 1/181(4)
	Specific guidelines	EPPO PP 1/93(3)
<b>Experimental design</b>	Plot design	RCBD (5)
	Plot size	15-21 m <sup>2</sup>
	Number of replications	4 (5)
<b>Crop</b>	Trials per crop	Soft Winter wheat: 2 Winter barley: 3
	Varieties per crop	Soft Winter wheat: Kraljica, Anapurna Winter barley: KWS Daxor, LG Zebra, Casanova
	Sowing period	Soft Winter wheat: 28/10-06/11 Winter barley: 05-10/10

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<b>Application</b>	Crop stage majority (BBCH) at application	Soft Winter wheat: A:<10; B: 11 Winter barley:A:<10, B: 11-12
	Timing	Pre-emergence
	Pest stage majority (BBCH) at application (1)	APESV - A:0; B:10-11 CONAR - A:0; B:0 DESSO - A:0; B:12 GALAP - A:0; B:10 PAPRH - A:0; B:9-11 POAAN - A:0; B:12 STEME - A:0; B:10-12 VERHE - A:0; B:10
	Number of applications	1 (1 in pre-em plots and 1 in post-em plots)
	Intervals between applications	-
	Spray volumes	150-200 L/ha
<b>Assessment</b>	Assessment types	% of weed coverage, number of weeds/m2, number of ears/m2, % control (on plant density), % phytotoxicity
	Assessment dates	First preliminary assessment at application timing. Depending on the trial, further assessments at: 2 weeks after the application, during tillering (BBCH 21-29), around flag leaf emergence (BBCH 37-39) from the end of flowering until shortly before harvest.
<b>Other relevant information</b>	Soil types	sandy clay loam, clay loam
	Natural / artificial inoculation	Natural infestation (5)
	Field / Greenhouse	Field conditions

**Table 3.2-36: Details on trial methodology – pre-em application - Mediterranean EPPO zone**

<b>Guidelines</b>	General guidelines	PP 1/135(4), EPPO PP 1/152 (4), PP 1/181(4)
	Specific guidelines	EPPO PP 1/93(3)
<b>Experimental design</b>	Plot design	RCBD (12)
	Plot size	12-27 m <sup>2</sup>
	Number of replications	4 (12)
<b>Crop</b>	Trials per crop	Soft Winter wheat: 8 Durum Winter wheat: 2 Winter barley: 2
	Varieties per crop	Soft Winter wheat: Alhamba, Ingenio, Ingenio, Izalco, Izalco CS, Minosse, Pibrac, Tirex Durum Winter wheat: Don Matteo, Antalis Winter barley: Prestige, Volley
	Sowing period	Soft Winter wheat: 20/10-03/12 Durum Winter wheat: 14-15/12 Winter barley: 31/10-23/11
<b>Application</b>	Crop stage majority (BBCH) at application	Soft Winter wheat: <10 Durum Winter wheat:<10 Winter barley:<10
	Timing	Pre-emergence
	Pest stage majority (BBCH) at application (1)	AVEST: 0-0 CHYCO: 0-0 FUMOF: 0-0

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		GALAP: 0-0 LOLMU: 0-0 LOLPE: 0-0 LOLRI: 0-0 LOLSS: 0-0 MATIN: 0-0 PAPRH: 0-0 POAAN: 0-0 SENVU: 0-0 SINAR: 0-0 STELS: 0-0 STEME: 0-0 VERHE: 0-0 VIOAR: 0-0
	Number of applications	1
	Intervals between applications	-
	Spray volumes	150-300 L/ha
<b>Assessment</b>	Assessment types	% of weed coverage, number of weeds/m2, number of ears/m2, % control (on plant density), % phytotoxicity
	Assessment dates	First preliminary assessment at application timing. Depending on the trial, further assessments at: 2 weeks after the application, during tillering (BBCH 21-29), around flag leaf emergence (BBCH 37-39) from the end of flowering until shortly before harvest.
<b>Other relevant information</b>	Soil types	loamy sand, clay loam, clay, Sandy Loam, silty clay, clay loam, silty clay loam, loam, silty sand, clay loam, loam, loam
	Natural / artificial inoculation	Natural infestation (12)
	Field / Greenhouse	Field conditions

**Table 3.2-37: Details on trial methodology – post-em application - Maritime EPPO zone**

<b>Guidelines</b>	General guidelines	PP 1/135(4), EPPO PP 1/152 (4), PP 1/181(4)
	Specific guidelines	EPPO PP 1/93(3)
<b>Experimental design</b>	Plot design	RCBD (41)
	Plot size	10.5-30 m <sup>2</sup>
	Number of replications	4 (41)
<b>Crop</b>	Trials per crop	Soft Winter wheat: 28 Winter barley: 7 Winter triticales: 5 Winter rye: 1
	Varieties per crop	Soft Winter wheat: Apostel, APRILIO, Avenue, Benchmark, Dagmar, Energo, Euclide, Frisky, IG ABSALON, Julie, KWS Talent, LG Mocca, Momentum, OREGRAIN, Patras, Portus, Reflection, RGT Cesario, RTG Reform, Sheriff, Skyscraper, Talent, Tobak, Variety mixe Winter barley: Breunskyllie, Jettoo, KWS Kosmos, KWS Meridian, Quadriga, SU Ellen, Sandra Winter triticales: Barolo, Talentro, Lombardo, Probus Winter rye: Daniello
	Sowing period	Soft Winter wheat: 05/09-02/12 Winter barley: 11/09-10/11

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		Winter triticale: 24/09-01/11 Winter rye: 09/10
<b>Application</b>	Crop stage majority (BBCH) at application	Soft Winter wheat: 10-16 Winter barley: 11-13 Winter triticale: 11-12 Winter rye: 11
	Timing	Post-emergence
	Pest stage majority (BBCH) at application	ALOMY:0-12 APESV:0-13 AVEFA:0-0 AVEST:10-10 CAPBP:10-11 CENCY:0-13 CHEAL:11-11 DESSO:10-10 FUMOF:0-12 GALAP:0-14 GERDI:12-12 GERPU:10-11 LAMPU:0-10 LOLMU:0-0 MATCH:0-11 MATIN:0-12 MYOAR:0-10 PAPRH:0-12 POAAN:0-12 SENVU:0-0 STEME:0-14 THLAR:10-14 VERCH:0-0 VERPE:0-12 VICCR:12-12 VIOAR:0-12
	Number of applications	1
	Intervals between applications	-
	Spray volumes	150-300 L/ha
<b>Assessment</b>	Assessment types	% of weed coverage, number of weeds/m <sup>2</sup> , number of ears/m <sup>2</sup> , % control (on plant density), % phytotoxicity
	Assessment dates	First preliminary assessment at application timing. Depending on the trial, further assessments at: 2 weeks after the application, during tillering (BBCH 21-29), around flag leaf emergence (BBCH 37-39) from the end of flowering until shortly before harvest.
<b>Other relevant information</b>	Soil types	calcareous loam, clay, clay loam, loam, loamy sand, sandy clay, sandy clay loam, sandy loam, sandy silt, silt loam, silty clay, silty clay loam
	Natural / artificial inoculation	Natural infestation (38) Artificial weed sowing (3)
	Field / Greenhouse	Field conditions

**Table 3.2-38: Details on trial methodology – post-em application - North-East EPPO zone**

<b>Guidelines</b>	General guidelines	PP 1/135(4), EPPO PP 1/152 (4), PP 1/181(4)
	Specific guidelines	EPPO PP 1/93(3)
<b>Experimental design</b>	Plot design	RCBD (14)
	Plot size	12-21 m <sup>2</sup>
	Number of replications	4 (14)
<b>Crop</b>	Trials per crop	Soft Winter wheat: 5 Winter barley: 3 Winter triticales: 4 Winter rye: 2
	Varieties per crop	Soft Winter wheat: Toras, Skagen, Julius, Linus Winter barley: Zenek, KWS Ariane, Zenek Winter triticales: Remiko, Gringo, Trapero, Grenado Winter rye: Dankowskie złote, KWS VISELLO
	Sowing period	Soft Winter wheat: 15/09-08/10 Winter barley: 22/09-05/10 Winter triticales: 23/09-05/10 Winter rye: 24/09-11/10
<b>Application</b>	Crop stage majority (BBCH) at application	Soft Winter wheat: 11-21 Winter barley: 12-13 Winter triticales: 11-14 Winter rye: 11-13
	Timing	Post-emergence
	Pest stage majority (BBCH) at application (1)	ALOMY:11-12 APESV:10-13 BRSNW:12-12 CAPBP:15-15 CENCY:12-13 FUMOF:10-12 GALAP:0-32 GERPU:12-12 LAMPU:0-13 MATIN:0-13 MYOAR:11-11 PAPRH:0-13 POAAN:0-11 POLAV:10-10 POLCO:10-10 STEME:0-13 VERAG:10-10 VERHE:0-12 VERPE:10-10 VIOAR:0-13; 67(1x)
	Number of applications	1
	Intervals between applications	-
	Spray volumes	150-300 L/ha
<b>Assessment</b>	Assessment types	% of weed coverage, number of weeds/m <sup>2</sup> , number of ears/m <sup>2</sup> , % control (on plant density), % phytotoxicity
	Assessment dates	First preliminary assessment at application timing.

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		Depending on the trial, further assessments at: 2 weeks after the application, during tillering (BBCH 21-29), around flag leaf emergence (BBCH 37-39) from the end of flowering until shortly before harvest.
<b>Other relevant information</b>	Soil types	sandy loam, loamy sand, sandy clay loam, loam, light clay
	Natural / artificial inoculation	Natural infestation (1) Artificial weed sowing (13)
	Field / Greenhouse	Field conditions

**Table 3.2-39: Details on trial methodology – post-em application - South-East EPPO zone**

<b>Guidelines</b>	General guidelines	PP 1/135(4), EPPO PP 1/152 (4), PP 1/181(4)
	Specific guidelines	EPPO PP 1/93(3)
<b>Experimental design</b>	Plot design	RCBD (5)
	Plot size	15-21 m <sup>2</sup>
	Number of replications	4 (5)
<b>Crop</b>	Trials per crop	Soft Winter wheat: 2 Winter barley: 3
	Varieties per crop	Soft Winter wheat: Kraljica, Anapurna Winter barley: KWS Daxor, LG Zebra, Casanova
	Sowing period	Soft Winter wheat: 28/10-06/11 Winter barley: 05-10/10
<b>Application</b>	Crop stage majority (BBCH) at application*	Soft Winter wheat: A:<10; B: 11 Winter barley:A:<10, B: 11-12
	Timing	Pre-emergence
	Pest stage majority (BBCH) at application*	APESV - A:0; B:10-11 CONAR - A:0; B:0 DESSO - A:0; B:12 GALAP - A:0; B:10 PAPRH - A:0; B:9-11 POAAN - A:0; B:12 STEME - A:0; B:10-12 VERHE - A:0; B:10
	Number of applications	1 (1 in pre-em plots and 1 in post-em plots)
	Intervals between applications	-
	Spray volumes	150-200 L/ha
<b>Assessment</b>	Assessment types	% of weed coverage, number of weeds/m <sup>2</sup> , number of ears/m <sup>2</sup> , % control (on plant density), % phytotoxicity
	Assessment dates	First preliminary assessment at application timing. Depending on the trial, further assessments at: 2 weeks after the application, during tillering (BBCH 21-29), around flag leaf emergence (BBCH 37-39) from the end of flowering until shortly before harvest.
<b>Other relevant information</b>	Soil types	sandy clay loam, clay loam
	Natural / artificial inoculation	Natural infestation (5)
	Field / Greenhouse	Field conditions

\*A and B not applied on the same plots

**Table 3.2-40: Details on trial methodology – post-em application - Mediterranean EPPO zone**

<b>Guidelines</b>	General guidelines	PP 1/135(4), EPPO PP 1/152 (4), PP 1/181(4)
	Specific guidelines	EPPO PP 1/93(3)
<b>Experimental design</b>	Plot design	RCBD (25)
	Plot size	12-27 m <sup>2</sup>
	Number of replications	4 (25)
<b>Crop</b>	Trials per crop	Soft Winter wheat: 16 Durum Winter wheat: 1 Winter barley: 7 Winter triticale: 1
	Varieties per crop	Soft Winter wheat: Bologna, DK Excelsior, Excelsior, Falado, GIORGIONE, Ingenio, Izalco CS, Kikonick, Némo, Palesio, Solehio, Tirez Durum Winter wheat: Anvergur Winter barley: Barun, Karat, Kassia, Maltesse, Pewter, Volley Winter triticale: Verato
	Sowing period	Soft Winter wheat: 17/10-29/11; 14/01 (1x) Durum Winter wheat: 06/12 Winter barley: 30/10-26/11; 03/02 (1x) Winter triticale: 05/12
<b>Application</b>	Crop stage majority (BBCH) at application	Soft Winter wheat: 11-14; 23(1x) Durum Winter wheat: 13 Winter barley: 10-14; 23(1x) Winter triticale: 14
	Timing	Post-emergence
	Pest stage majority (BBCH) at application (1)	ALOMY:0-10 ANGAR:12-12 APESV:11-13 AVESA:13-13 AVEST:0-12 CENCY:10-12 CENDL:12-12 CHYSE:14-15 CLDAR:14-15 DIPMU:12-12 FUMOF:14-14 GALAP:0-18 GERDI:12-12 LAMAM:11-11 LAMPU:10-13 LOLMU:10-13 LOLPE:12-12 LOLRI:10-12 MATCH:10-12 MATIN:0-12 PAPRH:0-16 PAPRS:17-17 POAAN:0-13 SINAR:14-14 STEME:0-14 VERAG:17-17 VERAR:13-13 VERHE:12-17

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		VERPE:10-21 VIOAR:0-0
	Number of applications	1
	Intervals between applications	-
	Spray volumes	150-300 L/ha
<b>Assessment</b>	Assessment types	% of weed coverage, number of weeds/m <sup>2</sup> , number of ears/m <sup>2</sup> , % control (on plant density), % phytotoxicity
	Assessment dates	First preliminary assessment at application timing. Depending on the trial, further assessments at: 2 weeks after the application, during tillering (BBCH 21-29), around flag leaf emergence (BBCH 37-39) from the end of flowering until shortly before harvest.
<b>Other relevant information</b>	Soil types	clay, clay loam, clay sandy loam, clayey silt, loam, loamy clay, loamy sand, sand, sandy clay loam, sandy loam, silt loam, silty sand
	Natural / artificial inoculation	Natural infestation (24) Artificial weed sowing (1)
	Field / Greenhouse	Field conditions

An overview on the reference standards used in the trials is presented in point 3.2 above.

It should be noted that in the majority of trials the reference product was the standard formulation containing 800 g/L of prosulfocarb. In the following summary tables, the most common commercial name, e.g. Roxy 800 EC is used in headers as a collective name for all identical formulations. As means were calculated orthogonally taking into account the amount of active substance applied and as no significant differences are expected, a detailed analysis on the number of trials where the product is >, <, = compared to standards is not provided.

Regarding the test product, different codes were used in different seasons to identify the proposed formulation containing 900 g/L of prosulfocarb. The comparability was already presented in section 3.2.1. Therefore, in the following summary tables, PROSULFOCARB 900 EC is used in headers as a collective name for all identical formulations.

### Pre-emergence application

#### Maritime EPPO zone

A total of 26 trials were carried out in the Maritime EPPO Zone to evaluate the efficacy of GLOB1913H for the control of weeds on winter cereals (soft wheat, barley, triticale and rye) in pre-emergence application. Those trials have been conducted during 3 seasons between 2018 and 2021 in the Czech Republic, Denmark, France, Germany, United Kingdom, and the Netherlands.

As a lower dose rate was included in most of the trials, these results are presented in detail under point 3.2.3 Efficacy tests but summarized and also discussed above under point 3.2.2 Minimum effective dose tests.

Roxy/Boxer 800 EC (prosulfocarb 800 g/L) was included in the majority of trials as a uniform reference, applied at authorized label rates. In a few trials where a prosulfocarb 800 g/L was not available for comparison or not authorized in the country, Herold/Naceto (diflufenican + flufenacet) was used at 0.6

L/ha. Table headers report the most common product name/rate applied. Exceptions are specified in the detailed table.

The percentage of visual control at the final spring assessment containing enough weeds per square meters were summarized below for each weed. In case of grass weeds, also the counting of ears was in general performed. The final spring assessment, besides having a higher weed pressure compared to earlier assessments, also provides a long term view of the effects of the herbicide applied just after emergence. In very few cases, when the above criteria could not be met, an earlier assessment was chosen. The minimum population of 5 plants/m<sup>2</sup> was considered for validation of the trial and assessment.

Data are grouped by weed species and summarized at the end of each table by an orthogonal comparison of the control achieved by GLOB1913H to the one achieved by the reference products containing prosulfocarb at the same amount of active substance applied. If the same subset of trials had tested other rates of GLOB1913H, means are presented also for those rates. An additional comparison is provided across all trials and dose rates of GLOB1913H (grouping “All”). Some species were grouped according to taxonomic and biological similarity (i.e. *Geranium* and *Veronica* species, EPPO codes 1GERG, 1VERG...).

The color scheme used to classify the levels of weed control are described above in section 3.2.3 Efficacy tests (KCP 6.2).

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# Results

## Grass weeds

Table 3.2-41: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against grasses – pre-emergence application - Maritime EPPO zone

EPPO zone	Target code	Crop code	Grouping	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Crop BBCH at ass.	Nb. trials	DA-A	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 1.3l/ha			PROSULFOCARB 900 EC at 2.6-2.7l/ha			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 CS at 4.4l/ha			Roxy 800 EC at 4l/ha			Roxy 800 EC at 5l/ha			Herold at 0.6l/ha		
										Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn
MAR	ALOMY	YCERE	All at 3.5 L/ha	PLANT	0-8	0-65	39-75	16	204-249	43.2	5.8-192.5	21.9	-	-	-	-	-	-	75.9	40-100	75.0	-	-	-	-	-	-	-	-	-	-	-	
MAR	ALOMY	YCERE	All at 4.4 L/ha vs. Roxy at 5 L/ha	PLANT	0-8	0-65	39-75	9	204-249	34.3	5.8-94.8	23.5	-	-	-	61.8	23.8-95	61.3	68.0	40-99	71.3	71.0	15-99	80.0	-	-	-	69.2	47.5-99	58.8	-	-	-
MAR	ALOMY	YCERE	3.5 L vs. Herold at 0.6 L/ha	PLANT	0-5	0-3	53-69	5	213-248	36.5	6-136	12.0	-	-	-	-	-	-	94.2	77.5-100	97.0	-	-	-	-	-	-	-	-	98.4	92.3-100	100.0	
MAR	ALOMY	YCERE	All at 3.5 L/ha	EAR	0-8	0-3	39-75	16	190-249	81.9	5.8-252	49.6	-	-	-	-	-	-	68.8	31.9-100	69.4	-	-	-	-	-	-	-	-	-	-	-	
MAR	ALOMY	YCERE	All at 4.4 L/ha vs. Roxy at 5 L/ha	EAR	0-8	0-3	39-75	9	190-249	94.9	12-252	64.8	-	-	-	58.1	24-92.7	58.9	57.9	31.9-96.3	52.5	66.1	34.2-96.4	64.0	-	-	-	63.5	39.4-96.3	57.9	-	-	-
MAR	ALOMY	YCERE	3.5 L vs. Herold at 0.6 L/ha	EAR	0-5	0-3	53-69	5	213-248	51.7	6-136	12.0	-	-	-	-	-	-	91.3	79.1-100	90.6	-	-	-	-	-	-	-	-	97.6	90.3-100	100.0	
MAR	APESV	YCERE	All at 3.5 L/ha	PLANT	0-1	0-3	39-71	3	217-244	7.0	5-10	6.0	-	-	-	98.3	95-100	100.0	100.0	100-100	100.0	-	-	-	-	-	-	-	-	-	-	-	
MAR	APESV	YCERE	vs. Roxy at 4 L/ha	PLANT	0-0	0-0	39-65	2	217-217	8.0	6-10	8.0	-	-	-	97.5	95-100	97.5	100.0	100-100	100.0	-	-	-	90.0	80-100	90.0	-	-	-	-	-	
MAR	APESV	YCERE	vs. Roxy at 5 L/ha	PLANT	1	3	71	1	244	5.0	5-5	5.0	-	-	-	100.0	100-100	100.0	100.0	100-100	100.0	100.0	100-100	100.0	-	-	-	100.0	100-100	100.0	-	-	-
MAR	APESV	YCERE	All at 3.5 L/ha*	EAR	0-7	0-3	65-78	5	244-292	41.2	5-131	10.8	-	-	-	90.3	73.9-100	97.0	97.2	86.7-100	100.0	-	-	-	-	-	-	-	-	-	-	-	
MAR	APESV	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	EAR	0-7	0-0	65-78	4	252-292	48.8	5-131	29.6	-	-	-	-	-	-	96.6	86.7-100	99.8	-	-	-	85.9	52.5-100	95.5	-	-	-	-	-	
MAR	APESV	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	EAR	1	3	71	1	244	10.8	10.8-10.8	10.8	-	-	-	100.0	100-100	100.0	100.0	100-100	100.0	100.0	100-100	100.0	-	-	-	100.0	100-100	100.0	-	-	-
MAR	AVEFA	YCERE	vs. Roxy at 5 L/ha	PLANT	0-6	0-0	65-69	2	195-238	14.8	10.5-19	14.8	-	-	-	46.1	45-47.3	46.1	59.8	40-79.5	59.8	47.4	45-49.8	47.4	-	-	-	42.4	37.5-47.3	42.4	-	-	-
MAR	POAAN	YCERE	All at 3.5 L/ha	PLANT	0-7	0-0	39-41	3	171-248	198.4	11-550	34.3	-	-	-	-	-	-	56.4	0-92.8	76.3	-	-	-	-	-	-	-	-	-	-	-	
MAR	POAAN	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	0	0	39	1	171	34.3	34.3-34.3	34.3	-	-	-	95.8	95.8-95.8	95.8	92.8	92.8-92.8	92.8	95.0	95-95	95.0	-	-	-	91.3	91.3-91.3	91.3	-	-	-
MAR	POAAN	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	5-7	0-0	39-41	2	223-248	280.5	11-550	280.5	31.3	0-62.5	31.3	-	-	-	38.1	0-76.3	38.1	-	-	-	18.8	0-37.5	18.8	-	-	-	-	-	
MAR	POAAN	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	EAR	5-7	0-0	41-41	2	224-248	1057.4	58.8-2056	1057.4	29.7	7.2-52.2	29.7	-	-	-	37.2	5.9-68.5	37.2	-	-	-	21.8	7.6-36	21.8	-	-	-	-	-	

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### Broad leaved weeds

**Table 3.2-42: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against broadleaved weeds – pre-emergence application - Maritime EPPO zone**

EPPO zone	Target code	Crop code	Grouping	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Crop BBCH at ass.	Nb. trials	DA-A	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 1.3l/ha			PROSULFOCARB 900 EC at 2.6-2.7l/ha			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 CS at 4.4l/ha			Roxy 800 EC at 4l/ha			Roxy 800 EC at 5l/ha			Herold at 0.6l/ha		
										Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn
MAR	APHAR	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	0	0	39	1	221	24.5	24.5-24.5	24.5	-	-	-	99.0	99-99	99.0	99.0	99-99	99.0	-	-	-	99.0	99-99	99.0	-	-	-	-	-	-
MAR	ARBTH	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	0	0	39	1	221	9.5	9.5-9.5	9.5	-	-	-	99.0	99-99	99.0	99.0	99-99	99.0	-	-	-	99.0	99-99	99.0	-	-	-	-	-	-
MAR	CENCY	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	0	0	39	1	221	13.0	13-13	13.0	-	-	-	8.8	8.8-8.8	8.8	13.8	13.8-13.8	13.8	-	-	-	17.5	17.5-17.5	17.5	-	-	-	-	-	-
MAR	EPHHE	YCERE	vs. Roxy at 5 L/ha	PLANT	7	0	75	1	231	5.0	5-5	5.0	-	-	-	93.8	93.8-93.8	93.8	95.0	95-95	95.0	100.0	100-100	100.0	-	-	-	97.5	97.5-97.5	97.5	-	-	-
MAR	FUMOF	YCERE	vs. Roxy at 5 L/ha	PLANT	0-7	0-5	37-75	3	184-231	16.4	12-22	15.3	-	-	-	86.7	80-95	85.0	90.0	80-100	90.0	87.1	80-91.3	90.0	-	-	-	92.6	86.3-99	92.5	-	-	-
MAR	GALAP	YCERE	All at 3.5 L/ha	PLANT	0-6	0-3	37-75	11	188-270	10.2	4.3*-25	8.0	-	-	-	-	-	-	71.5	0-100	90.5	-	-	-	-	-	-	-	-	-	-	-	-
MAR	GALAP	YCERE	All at 4.4 L/ha vs. Roxy at 5 L/ha	PLANT	0-6	0-3	37-75	5	188-246	13.3	5-25	12.5	-	-	-	79.5	40-100	86.0	76.3	35-100	86.3	85.8	56.3-100	92.8	-	-	-	82.5	46.3-100	89.8	-	-	-
MAR	GALAP	YCERE	3.5 L vs. Herold at 0.6 L/ha	PLANT	0-5	0-3	53-69	4	213-248	7.3	4.3-12	6.5	-	-	-	-	-	-	95.8	90.5-99.5	96.5	-	-	-	-	-	-	-	-	97.9	93-100	99.4	
MAR	IGERG	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	1	5	37	1	188	9.0	9-9	9.0	-	-	-	100.0	100-100	100.0	100.0	100-100	100.0	100.0	100-100	100.0	-	-	-	100.0	100-100	100.0	-	-	-
MAR	IGERG	YCERE	3.5 L vs. Herold at 0.6 L/ha	PLANT	0-5	0-5	53-55	2	229-238	14.0	10-18	14.0	-	-	-	-	-	-	85.9	81.3-90.5	85.9	-	-	-	-	-	-	-	-	100.0	100-100	100.0	
MAR	MATCH	YCERE	All at 3.5 L/ha	PLANT	0-0	0-0	53-65	4	213-235	19.3	6-39	16.1	-	-	-	-	-	-	87.6	80-91.3	89.6	-	-	-	-	-	-	-	-	96.9	95-98.8	96.9	
MAR	MATCH	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	0	0	65	1	213	22.3	22.3-22.3	22.3	-	-	-	82.3	82.3-82.3	82.3	89.3	89.3-89.3	89.3	98.8	98.8-98.8	98.8	-	-	-	88.0	88-88	88.0	-	-	-
MAR	MATCH	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	0	0	65	1	235	6.0	6-6	6.0	-	-	-	82.5	82.5-82.5	82.5	91.3	91.3-91.3	91.3	-	-	-	96.3	96.3-96.3	96.3	97.5	97.5-97.5	97.5	-	-	-
MAR	MATCH	YCERE	3.5 L vs. Herold at 0.6 L/ha	PLANT	0-0	0-0	53-61	2	229-235	24.5	10-39	24.5	-	-	-	-	-	-	85.0	80-90	85.0	-	-	-	-	-	-	-	-	-	96.9	95-98.8	96.9
MAR	MATIN	YCERE	All at 3.5 L/ha	PLANT	0-5	0-3	39-75	10	221-249	19.3	5-101	8.0	-	-	-	-	-	-	65.1	0-99	75.6	-	-	-	-	-	-	-	-	-	-	-	-
MAR	MATIN	YCERE	All at 4.4 L/ha vs. Roxy at 5 L/ha	PLANT	0-1	0-3	65-75	4	238-249	35.3	5-101	17.6	-	-	-	25.0	11.3-40	24.4	47.2	30-70	44.4	48.1	13.8-80	49.4	-	-	-	53.1	16.3-76.3	60.0	-	-	-
MAR	MATIN	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	0-3	0-0	39-65	4	221-247	10.1	5-19.5	8.0	-	-	-	66.3	0-98.8	83.2	70.4	0-99	91.3	-	-	-	59.0	9.6-98.8	63.8	-	-	-	-	-	-
MAR	MATIN	YCERE	3.5 L vs. Herold at 0.6 L/ha	PLANT	0-5	0-3	55-69	2	238-248	5.5	5-6	5.5	-	-	-	-	-	-	90.1	81.3-99	90.1	-	-	-	-	-	-	-	-	-	97.5	95-100	97.5
MAR	MYOAR	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	1	3	37	1	188	5.0	5-5	5.0	-	-	-	100.0	100-100	100.0	100.0	100-100	100.0	100.0	100-100	100.0	-	-	-	100.0	100-100	100.0	-	-	-
MAR	PAPRH	YCERE	All at 3.5 L/ha	PLANT	0-7	0-5	39-75	12	190-249	69.0	5-262.5	27.5	-	-	-	-	-	-	61.9	0-100	80.9	-	-	-	-	-	-	-	-	-	-	-	-
MAR	PAPRH	YCERE	All at 4.4 L/ha vs. Roxy at 5 L/ha	PLANT	0-7	0-5	65-75	5	190-249	33.3	5.8-81.5	18.0	-	-	-	64.7	28.8-99.8	63.8	58.1	15-95	60.0	66.2	26.3-99	70.0	-	-	-	59.1	5-100	55.0	-	-	-
MAR	PAPRH	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	0-5	0-0	39-65	5	217-248	130.1	6-262.5	120.0	-	-	-	48.6	0-99	66.3	52.8	0-100	77.5	-	-	-	44.6	0-95	50.0	-	-	-	-	-	-

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EPPO zone	Target code	Crop code	Grouping	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Crop BBCH at ass.	Nb. trials	DA-A	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 1.3/ha			PROSULFOCARB 900 EC at 2.6-2.7/ha			PROSULFOCARB 900 EC at 3.5/ha			PROSULFOCARB 900 CS at 4.4/ha			Roxy 800 EC at 4/ha			Roxy 800 EC at 5/ha			Herold at 0.6/ha		
										Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn
MAR	PAPRH	YCERE	3.5 L vs. Herold at 0.6 L/ha	PLANT	0-5	0-3	55-69	2	238-248	5.5	5-6	5.5	-	-	-	-	-	-	94.5	90-99	94.5	-	-	-	-	-	-	-	-	-	100.0	100-100	100.0
MAR	POLAV	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	0	0	65	1	238	19.3	19.3-19.3	19.3	-	-	-	71.3	71.3-71.3	71.3	65.0	65-65	65.0	75.0	75-75	75.0	-	-	-	67.5	67.5-67.5	67.5	-	-	-
MAR	SCRAN	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	1	3	37	1	188	5.0	5-5	5.0	-	-	-	99.0	99-99	99.0	100.0	100-100	100.0	100.0	100-100	100.0	-	-	-	100.0	100-100	100.0	-	-	-
MAR	SENVU	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	0-0	0-0	39-65	2	190-200	18.4	4.8-32	18.4	-	-	-	55.6	37.5-73.8	55.6	54.9	22.5-87.3	54.9	51.9	22.5-81.3	51.9	-	-	-	64.3	42.5-86	64.3	-	-	-
MAR	SINAR	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	7	0	75	1	231	18.5	18.5-18.5	18.5	-	-	-	88.8	88.8-88.8	88.8	87.5	87.5-87.5	87.5	90.0	90-90	90.0	-	-	-	87.5	87.5-87.5	87.5	-	-	-
MAR	STEME	YCERE	All at 3.5 L/ha	PLANT	0-5	0-5	26-69	13	97-270	13.6	5-61.5	6.0	-	-	-	-	-	-	94.5	62.5-100	99.0	-	-	-	-	-	-	-	-	-	-	-	-
MAR	STEME	YCERE	All at 4.4 L/ha vs. Roxy at 5 L/ha	PLANT	0-0	0-0	26-69	4	97-249	23.0	6-61.5	12.2	-	-	-	97.8	95-100	98.0	98.9	97-100	99.4	99.2	98-100	99.4	-	-	-	98.2	96.3-100	98.3	-	-	-
MAR	STEME	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	0-5	0-0	39-69	5	217-270	12.4	6-37	6.0	-	-	-	87.4	60-100	94.9	87.8	62.5-100	99.0	-	-	-	86.0	50-100	98.8	-	-	-	-	-	-
MAR	STEME	YCERE	3.5 L vs. Herold at 0.6 L/ha	PLANT	0-5	0-5	55-69	4	213-248	5.9	5-7	5.8	-	-	-	-	-	-	98.5	95-100	99.5	-	-	-	-	-	-	-	-	-	100.0	100-100	100.0
MAR	IVERG	YCERE	All at 3.5 L/ha	PLANT	0-7	0-5	21-75	10	126-270	23.6	7.3-75.5	13.0	-	-	-	-	-	-	74.4	15-99	84.4	-	-	-	-	-	-	-	-	-	-	-	-
MAR	IVERG	YCERE	All at 4.4 L/ha vs. Roxy at 5 L/ha	PLANT	0-7	0-0	21-75	5	126-231	20.9	7.3-58.3	14.0	-	-	-	80.8	40-100	92.5	84.7	58.8-95	89.8	85.4	65-97.5	94.3	-	-	-	87.8	57.5-97.5	94.8	-	-	-
MAR	IVERG	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	0-5	0-0	30-69	4	190-270	30.9	10-75.5	19.0	-	-	-	-	-	-	59.8	15-99	62.5	-	-	-	58.6	0-99	67.7	-	-	-	-	-	-
MAR	IVERG	YCERE	3.5 L vs. Herold at 0.6 L/ha	PLANT	0-5	0-5	39-55	2	200-238	12.5	8-17	12.5	-	-	-	-	-	-	88.1	81.3-95	88.1	-	-	-	-	-	-	-	-	-	100.0	100-100	100.0
MAR	VIOAR	YCERE	All at 3.5 L/ha	PLANT	0-8	0-5	37-75	13	167-248	51.8	5-294.5	16.0	-	-	-	-	-	-	52.2	0-91.3	67.5	-	-	-	-	-	-	-	-	-	-	-	-
MAR	VIOAR	YCERE	All at 4.4 L/ha vs. Roxy at 5 L/ha	PLANT	0-8	0-3	37-75	6	167-238	33.2	7-64.8	30.0	-	-	-	54.8	0-82.5	61.9	56.5	0-86.3	68.8	58.3	0-83.8	76.3	-	-	-	57.1	0-82.5	78.8	-	-	-
MAR	VIOAR	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	0-7	0-0	37-65	6	221-248	77.8	5-294.5	18.5	-	-	-	-	-	-	44.2	0-91.3	44.4	-	-	-	30.5	0-62.5	34.4	-	-	-	-	-	-
MAR	VIOAR	YCERE	3.5 L vs. Herold at 0.6 L/ha	PLANT	5-5	5-5	55-55	1	238-238	7	7-7	7.0	-	-	-	-	-	-	75.0	75-75	75.0	-	-	-	-	-	-	-	-	-	100.0	100-100	100.0

\*on GALAP, 4.3 plants/m2 acceptable since ground cover was 4%

## Conclusion

A total of 26 trials were carried out in the Maritime EPPO Zone to evaluate the efficacy of GLOB1913H for the control of weeds on winter cereals (soft wheat, barley, triticale and rye) in pre-emergence application. Those trials have been conducted during 3 seasons between 2018 and 2021 in the Czech Republic, Denmark, France, Germany, United Kingdom, and the Netherlands.

Data demonstrated that the efficacy of GLOB1913H at the rates of 3.5 and 4.4 L/ha (this last one in support of the requested rate of 4 L/ha) was on average equivalent to the efficacy of standard products containing prosulfocarb in a formulation containing 800 g/L applied at a comparable amount of active substance.

In particular, against some weeds as e.g. loose silky bent (APESV) wild chamomile (MATCH), common chickweed (STEME), GLOB1913H performed well at both rates, providing already a good control at the lowest requested rate.

In a few trials where the reference standard was Herold/Naceto, the overall control of GLOB1913H was slightly lower. This is expected since Naceto is a mixture of 2 different active substances and since prosulfocarb based products are often used in tank-mixtures in order to improve control and spectrum.

Generally, these results also confirm the results obtained from other EPPO climatic zones. Moreover, as the performance of GLOB1913H (900 g/L of prosulfocarb) is in general comparable with existing formulations based on 800 g/L of prosulfocarb, according to PP 1/307(2), extrapolation to the complete associated claims/uses for the authorized products e.g. Roxy 800 EC and the underlying supporting data can be claimed.

From the presented results it can be clearly concluded that several weeds commonly populating cereal fields are susceptible or highly susceptible to GLOB1913H applied at dose rates starting at 3.5 L/ha. As results are strongly linked to the weed species, reference is made to the tables below showing the susceptibility spectrum of the different weeds.

In some countries, standard products containing prosulfocarb in a formulation containing 800 g/L are authorized at ranges between 3 and 5 L/ha. Susceptibility spectrum for GLOB1913H at 2.6 L/ha is thus also shown below to better reflect local common practices.

Table 3.2-43 and Table 3.2-44 show respectively the overall mean efficacy results of GLOB1913H in 1 application of 2.6, 3.5 and 4.4 L/ha (this last one in support of the requested rate of 4 L/ha) against grasses and broad leaved weeds. The overall susceptibility level of each weed at the proposed rates is also indicated.

Table 3.2-45 presents separately results from weed species that appeared in just one trial.

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**Table 3.2-43: Overall efficacy and susceptibility level to GLOB1913H (Prosulfocarb 900 EC) on winter cereals against grasses- pre-emergence application - Maritime EPPO zone**

EPPO zone	Target code	Crop code	Grouping	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Nb. trials	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 2.6-2.7l/ha			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 CS at 4.4l/ha			Weighted mean at 3.5 L/ha (nb.trials)	Weighted mean at 4 L/ha (nb.trials)	Suscept. Level at 2.6 L/ha**	Suscept. Level at 3.5 L/ha**	Suscept. Level at 4 L/ha**, <sup>1</sup>
								Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn					
MAR	ALOMY	YCERE	All at 3.5 L/ha	PLANT	0-8	0-65	16	43.2	5.8-192.5	21.9	-	-	-	75.9	40-100	75	-	-	-	72.35 (16)	68.55 (9)	MT	MS	MS
		YCERE	All at 4.4 L/ha	PLANT	0-8	0-65	9	34.3	5.8-94.8	23.5	61.8	23.8-95	61.3	68	40-99	71.3	71	15-99	80					
		YCERE	All at 3.5 L/ha	EAR	0-8	0-3	16	81.9	5.8-252	49.6	-	-	-	68.8	31.9-100	69.4	-	-	-					
		YCERE	All at 4.4 L/ha	EAR	0-8	0-3	9	94.9	12-252	64.8	58.1	24-92.7	58.9	57.9	31.9-96.3	52.5	66.1	34.2-96.4	64					
	APESV	YCERE	All at 3.5 L/ha	PLANT	0-1	0-3	3	7	5-10	6	98.3	95-100	100	100	100-100	100	-	-	-	98.25 (5)	100 (1)	S	HS	HS
		YCERE	All at 4.4 L/ha	PLANT	1	3	1	5	5-5	5	100	100-100	100	100	100-100	100	100	100-100	100					
		YCERE	All at 3.5 L/ha	EAR	0-7	0-3	5	41.2	5-131	10.8	90.3	73.9-100	97	97.2	86.7-100	100	-	-	-					
		YCERE	All at 4.4 L/ha	EAR	1	3	1	10.8	10.8-10.8	10.8	100	100-100	100	100	100-100	100	100	100-100	100					
	AVEFA	YCERE	All at 4.4 L/ha	PLANT	0-6	0-0	2	14.8	10.5-19	14.8	46.1	45-47.3	46.1	59.8	40-79.5	59.8	47.4	45-49.8	47.4	59.8 (2)	47.4 (2)	T	MT	MT
	POAAN	YCERE	All at 3.5 L/ha	PLANT	0-7	0-0	3	198.4	11-550	34.3	-	-	-	56.4	0-92.8	76.3	-	-	-	48.72 (3)	95 (1)	-	T	-
		YCERE	All at 4.4 L/ha	PLANT	0	0	1	34.3	34.3-34.3	34.3	95.8	95.8-95.8	95.8	92.8	92.8-92.8	92.8	95	95-95	95					
		YCERE	All at 3.5 L/ha	EAR	5-7	0-0	2	1057.4	58.8-2056	1057.4	-	-	-	37.2	5.9-68.5	37.2	-	-	-					

\*\*T=Tolerant; MT=Moderately Tolerant; MS=Moderately Susceptible; S=Susceptible; HS=Highly Susceptible

1) It can be expected that GLOB1913H applied at a 4 L/ha will perform at least as good as 3.5 L/ha. When this was not the case, the susceptibility level at 3.5 L/ha was reported also for 4 L/ha since a higher number of trials was available for 3.5 L/ha and thus the average control is even more reliable.

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**Table 3.2-44: Overall efficacy and susceptibility level to GLOB1913H (Prosulfocarb 900 EC) on winter cereals against broad leaved weeds - pre-emergence application - Maritime EPPO zone**

EPPO zone	Target code	Crop code	Grouping	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Nb. Trials	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 2.6-2.7l/ha			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 CS at 4.4l/ha			Suscept. Level at 2.6 L/ha**	Suscept. Level at 3.5 L/ha**	Suscept. Level at 4 L/ha**,1
								Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn			
MAR	FUMOF	YCERE	All at 4.4 L/ha	PLANT	0-7	0-5	3	16.4	12-22	15.3	86.7	80-95	85.0	90.0	80-100	90.0	87.1	80-91.3	90.0	S	S	S
MAR	GALAP	YCERE	All at 3.5 L/ha	PLANT	0-6	0-3	11	10.2	4.3*-25	8.0	-	-	-	71.5	0-100	90.5	-	-	-	MS	MS	S
			All at 4.4 L/ha	PLANT	0-6	0-3	5	13.3	5-25	12.5	79.5	40-100	86.0	76.3	35-100	86.3	85.8	56.3-100	92.8			
MAR	IGERG	YCERE	All at 3.5 L/ha	PLANT	0-5	0-5	3	12.3	9-18	10.0	-	-	-	90.6	81.3-100	90.5	-	-	-	S	S	HS
			All at 4.4 L/ha	PLANT	1	5	1	9.0	9-9	9.0	100.0	100-100	100.0	100.0	100-100	100.0	100.0	100-100	100.0			
MAR	MATCH	YCERE	All at 3.5 L/ha	PLANT	0-0	0-0	4	19.3	6-39	16.1	-	-	-	87.6	80-91.3	89.6	-	-	-	MS	S	HS
			All at 4.4 L/ha	PLANT	0	0	1	22.3	22.3-22.3	22.3	82.3	82.3-82.3	82.3	89.3	89.3-89.3	89.3	98.8	98.8-98.8	98.8			
MAR	MATIN	YCERE	All at 3.5 L/ha	PLANT	0-5	0-3	10	19.3	5-101	8.0	-	-	-	65.1	0-99	75.6	-	-	-	T	MT	MT
			All at 4.4 L/ha	PLANT	0-1	0-3	4	35.3	5-101	17.6	25.0	11.3-40	24.4	47.2	30-70	44.4	48.1	13.8-80	49.4			
MAR	PAPRH	YCERE	All at 3.5 L/ha	PLANT	0-7	0-5	12	69.0	5-262.5	27.5	-	-	-	61.9	0-100	80.9	-	-	-	MT	MT	MT
			All at 4.4 L/ha	PLANT	0-7	0-5	5	33.3	5.8-81.5	18.0	64.7	28.8-99.8	63.8	58.1	15-95	60.0	66.2	26.3-99	70.0			
MAR	SENVU	YCERE	All at 4.4 L/ha	PLANT	0-0	0-0	2	18.4	4.8-32	18.4	55.6	37.5-73.8	55.6	54.9	22.5-87.3	54.9	51.9	22.5-81.3	51.9	MT	MT	MT
MAR	STEME	YCERE	All at 3.5 L/ha	PLANT	0-5	0-5	13	13.6	5-61.5	6.0	-	-	-	94.5	62.5-100	99.0	-	-	-	S	S	HS
			All at 4.4 L/ha	PLANT	0-0	0-0	4	23.0	6-61.5	12.2	97.8	95-100	98.0	98.9	97-100	99.4	99.2	98-100	99.4			
MAR	IVERG	YCERE	All at 3.5 L/ha	PLANT	0-7	0-5	10	23.6	7.3-75.5	13.0	-	-	-	74.4	15-99	84.4	-	-	-	MS	MS	S
			All at 4.4 L/ha	PLANT	0-7	0-0	5	20.9	7.3-58.3	14.0	80.8	40-100	92.5	84.7	58.8-95	89.8	85.4	65-97.5	94.3			
MAR	VIOAR	YCERE	All at 3.5 L/ha	PLANT	0-8	0-5	13	51.8	5-294.5	16.0	-	-	-	52.2	0-91.3	67.5	-	-	-	MT	MT	MT
			All at 4.4 L/ha	PLANT	0-8	0-3	6	33.2	7-64.8	30.0	54.8	0-82.5	61.9	56.5	0-86.3	68.8	58.3	0-83.8	76.3			

\*on GALAP, 4.3 plants/m2 acceptable since ground cover was 4%

\*\*T=Tolerant; MT=Moderately Tolerant; MS=Moderately Susceptible; S=Susceptible; HS=Highly Susceptible

1) It can be expected that GLOB1913H applied at a 4 L/ha will perform at least as good as 3.5 L/ha. When this was not the case, the susceptibility level at 3.5 L/ha was reported also for 4 L/ha since a higher number of trials was available for 3.5 L/ha and thus the average control is even more reliable.

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**Table 3.2-45: Overall efficacy and susceptibility level to GLOB1913H (Prosulfocarb 900 EC) on winter cereals against weeds which occurred in only one trial - pre-emergence application - Maritime EPPO zone**

EPPO zone	Target code	Crop code	Grouping	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Nb. Trials	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 2.6-2.7l/ha			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 CS at 4.4l/ha			Suscept. Level at 2.6 L/ha**	Suscept. Level at 3.5 L/ha**	Suscept. Level at 4 L/ha**,1
								Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn			
MAR	APHAR	YCERE	All at 3.5 L/ha	PLANT	0	0	1	24.5	24.5-24.5	24.5	99.0	99-99	99.0	99.0	99-99	99.0	-	-	-	HS	HS	HS
MAR	ARBTH	YCERE	All at 3.5 L/ha	PLANT	0	0	1	9.5	9.5-9.5	9.5	99.0	99-99	99.0	99.0	99-99	99.0	-	-	-	HS	HS	HS
MAR	CENCY	YCERE	All at 3.5 L/ha	PLANT	0	0	1	13.0	13-13	13.0	8.8	8.8-8.8	8.8	13.8	13.8-13.8	13.8	-	-	-	T	T	-
MAR	EPHHE	YCERE	All at 4.4 L/ha	PLANT	7	0	1	5.0	5-5	5.0	93.8	93.8-93.8	93.8	95.0	95-95	95.0	100.0	100-100	100.0	S	HS	HS
MAR	MYOAR	YCERE	All at 4.4 L/ha	PLANT	1	3	1	5.0	5-5	5.0	100.0	100-100	100.0	100.0	100-100	100.0	100.0	100-100	100.0	HS	HS	HS
MAR	POLAV	YCERE	All at 4.4 L/ha	PLANT	0	0	1	19.3	19.3-19.3	19.3	71.3	71.3-71.3	71.3	65.0	65-65	65.0	75.0	75-75	75.0	MS	MS	MS
MAR	SCRAN	YCERE	All at 4.4 L/ha	PLANT	1	3	1	5.0	5-5	5.0	99.0	99-99	99.0	100.0	100-100	100.0	100.0	100-100	100.0	HS	HS	HS
MAR	SINAR	YCERE	All at 4.4 L/ha	PLANT	7	0	1	18.5	18.5-18.5	18.5	88.8	88.8-88.8	88.8	87.5	87.5-87.5	87.5	90.0	90-90	90.0	S	S	S

\*\*T=Tolerant; MT=Moderately Tolerant; MS=Moderately Susceptible; S=Susceptible; HS=Highly Susceptible

1) It can be expected that GLOB1913H applied at a 4 L/ha will perform at least as good as 3.5 L/ha. When this was not the case, the susceptibility level at 3.5 L/ha was reported also for 4 L/ha.

### North-East EPPO Zone

A total of 12 trials were carried out in the North-East EPPO Zone to evaluate the efficacy of GLOB1913H for the control of weeds on winter cereals (soft wheat, barley, triticale and rye) in pre-emergence application. Those trials have been conducted during 3 seasons between 2018 and 2021 in the Poland and Latvia. Those were combined with the results of the German and Czech trials (12 trials) since these are neighbouring countries and considered as valid to Poland. The combined results from 24 trials are thus shown in the tables below.

As a lower dose rate was included in most of the trials, these results are presented in detail under point 3.2.3 Efficacy tests but summarized and also discussed above under point 3.2.2 Minimum effective dose tests.

Roxy/Boxer 800 EC (prosulfocarb 800 g/L) was included in the majority of trials as a uniform reference, applied at authorized label rates. In a few trials where a prosulfocarb 800 g/L was not available for comparison or not authorized in the country, Naceto (diflufenican + flufenacet) was used at 0.6 L/ha. Table headers report the most common product name/rate applied. Exceptions are specified in the detailed table.

The percentage of visual control at the final spring assessment containing enough weeds per square meters were summarized below for each weed. In case of grass weeds, also the counting of ears was in general performed. The final spring assessment, besides having a higher weed pressure compared to earlier assessments, also provides a long term view of the effects of the herbicide applied just after emergence. In very few cases, when the above criteria could not be met, an earlier assessment was chosen. The minimum population of 5 plants/m<sup>2</sup> was considered for validation of the trial and assessment.

Data are grouped by weed species and summarized at the end of each table by an orthogonal comparison of the control achieved by GLOB1913H to the one achieved by the reference products containing prosulfocarb at the same amount of active substance applied. If the same subset of trials had tested other rates of GLOB1913H, means are presented also for those rates. An additional comparison is provided across all trials and dose rates of GLOB1913H (grouping “All”). Some species were grouped according to taxonomic and biological similarity (i.e. *Geranium* and *Veronica* species, EPPO codes 1GERG, 1VERG...). In exceptional cases, results at a different dose were included in the averaged values, i.e. 1.3 L in the range 1.6-1.7 (1 trial, KCP 6.2-30) or 2.1 L in the range 2.6-2.7 L/ha (1 trial, KCP 6.2-133). Being results achieved at a lower rate, it is reliable to consider that it will work as good as higher rates of the range.

The color scheme used to classify the levels of weed control are described above in section 3.2.3 Efficacy tests (KCP 6.2).

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## Results

### Grass weeds

**Table 3.2-46: Efficacy of GLOBAL1913H (Prosulfocarb 900 EC) against grasses – pre-emergence application - North-East EPPO Zone**

Means valid for Poland (when available, CZ and DE trials included in mean calculation)

EPPO zone	Target code	Crop code	Grouping	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Crop BBCH at ass.	Nb. trials	DA-A	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 1.6-1.7l/ha			PROSULFOCARB 900 EC at 2.6-2.7l/ha			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 CS at 4.4l/ha			Boxer 800 EC at 2.5-3l/ha			Roxy 800 EC at 4l/ha			Roxy 800 EC at 5l/ha			Naceto at 0.6l/ha		
										Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn
NE (+CZ,DE)	ALOMY	YCERE	All at 3.5 L/ha	PLANT	0-8	0-3	39-75	12	206-256	49.0	5.8-192.5	21.9	-	-	-	-	-	-	76.1	40-100	80.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NE (+CZ,DE)	ALOMY	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	0-8	0-3	39-75	5	206-246	33.3	5.8-94.8	21.3	-	-	-	56.8	23.8-95	55.0	68.7	40-99	72.5	66.2	15-99	68.8	-	-	-	-	-	-	71.1	52.5-99	58.8	-	-	-
NE (+CZ,DE)	ALOMY	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	0-3	0-0	39-73	3	221-256	83.6	16.3-192.5	42.0	-	-	-	57.9	27.5-81.3	65.0	65.0	42.5-82.5	70.0	-	-	-	-	-	57.9	10-88.8	75.0	-	-	-	-	-	-	
NE (+CZ,DE)	ALOMY	YCERE	3.5 L vs. Naceto at 0.6 L/ha	PLANT	0-5	0-3	53-69	4	213-248	42.6	6-136	14.3	-	-	-	-	-	-	93.6	77.5-100	98.5	-	-	-	-	-	-	-	-	-	-	-	98.0	92.3-100	99.9	
NE (+CZ,DE)	ALOMY	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	0-0	0-0	63-63	1	209-209	13.7	13.7-13.7	13.7	56.3	56.3-56.3	56.3	75.0	75-75	75.0	-	-	-	-	-	-	72.5	72.5-72.5	72.5	-	-	-	-	-	-	-		
NE (+CZ,DE)	ALOMY	YCERE	All at 3.5 L/ha	EAR	0-8	0-3	39-75	12	206-256	114.2	6-291	86.1	-	-	-	-	-	-	73.6	31.9-100	81.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NE (+CZ,DE)	ALOMY	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	EAR	0-8	0-3	39-75	5	206-246	124.8	32.5-252	74.0	-	-	-	54.9	24-92.7	49.8	62.5	31.9-96.3	52.5	68.6	34.2-96.4	64.0	-	-	-	-	-	67.9	39.4-96.3	59.9	-	-	-	
NE (+CZ,DE)	ALOMY	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	EAR	0-3	0-0	39-73	3	221-256	166.6	16.3-291	192.5	-	-	-	56.9	24.4-77.2	69.1	67.3	39.6-87.5	74.6	-	-	-	-	-	57.3	9.4-84.3	78.2	-	-	-	-	-	-	
NE (+CZ,DE)	ALOMY	YCERE	3.5 L vs. Naceto at 0.6 L/ha	EAR	0-5	0-3	53-69	4	213-248	61.6	6-136	52.1	-	-	-	-	-	-	92.4	79.1-100	95.3	-	-	-	-	-	-	-	-	-	-	96.9	90.3-100	98.8		
NE (+CZ,DE)	ALOMY	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	EAR	0-0	0-0	63-63	1	209-209	31.3	31.3-31.3	31.3	73.5	73.5-73.5	73.5	79.0	79-79	79.0	-	-	-	-	-	-	77.5	77.5-77.5	77.5	-	-	-	-	-	-	-		
NE (+CZ,DE)	APESV	YCERE	All at 3.5 L/ha	PLANT	0-7	0-3	39-77	5	217-286	7.9	3.7-15	6.0	-	-	-	92.8	67.5-100	98.8	95.8	80-100	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NE (+CZ,DE)	APESV	YCERE	All at 2.6 L/ha	PLANT	0-7	0-33	37-77	9	200-286	16.7	3.7-52	10.0	-	-	-	94.2	67.5-100	98.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NE (+CZ,DE)	APESV	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	0-7	0-3	39-77	4	217-286	8.7	3.7-15	8.0	-	-	-	91.0	67.5-100	98.2	94.8	80-100	99.5	-	-	-	-	-	94.8	80-100	99.5	-	-	-	-	-	-	
NE (+CZ,DE)	APESV	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	0-7	0-33	37-77	4	200-252	27.8	9-52	25.0	92.5	82.5-100	93.8	96.0	91.3-100	96.3	-	-	-	-	-	96.6	91.3-100	97.5	-	-	-	-	-	-	-	-		
NE (+CZ,DE)	APESV	YCERE	All at 3.5 L/ha	EAR	0-7	0-3	71-77	5	241-286	35.8	10-131	12.0	-	-	-	98.5	95.8-100	98.8	98.9	94.6-100	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NE (+CZ,DE)	APESV	YCERE	All at 2.6 L/ha	EAR	0-7	0-33	65-77	9	233-286	48.7	9-196.5	14.8	-	-	-	98.1	90.3-100	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NE (+CZ,DE)	APESV	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	EAR	0-7	0-3	71-77	4	241-286	42.0	10-131	13.5	-	-	-	98.2	95.8-100	98.5	98.6	94.6-100	100	-	-	-	-	-	97.4	89.6-100	100	-	-	-	-	-	-	
NE (+CZ,DE)	APESV	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	EAR	0-7	0-33	65-77	4	233-252	64.8	9-196.5	26.9	93.6	80.8-100	96.9	97.6	90.3-100	100	-	-	-	-	-	95.9	90.3-100	96.6	-	-	-	-	-	-	-	-		
NE (+CZ,DE)	POAAN	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	0-6	0-10	37-69	4	200-231	12.3	5-19	12.6	85.3	62.5-100	89.4	90.4	71.3-100	95.1	-	-	-	-	-	89.3	71.3-100	93.0	-	-	-	-	-	-	-	-		
NE (+CZ,DE)	POAAN	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	EAR	0-5	0-10	37-65	2	213-233	11.0	0-22	11.0	81.3	62.5-100	81.3	85.9	71.8-100	85.9	-	-	-	-	-	86.3	72.5-100	86.3	-	-	-	-	-	-	-	-		

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### Broad leaved weeds

**Table 3.2-47: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against broadleaved weeds – pre-emergence application - North-East EPPO Zone**

Means valid for Poland (when available, CZ and DE trials included in mean calculation)

EPPO zone	Target code	Crop code	Grouping	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Crop BBCH at ass.	Nb. trials	DA-A	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 1.6-1.7l/ha			PROSULFOCARB 900 EC at 2.6-2.7l/ha			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 CS at 4.4l/ha			Boxer 800 EC at 2.5-3l/ha			Roxy 800 EC at 4l/ha			Roxy 800 EC at 5l/ha			Naceto at 0.6l/ha		
										Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn
NE (+CZ,DE)	APHAR	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	0-0	0-0	39-39	1	221-221	24.5	24.5-24.5	24.5	-	-	-	99.0	99-99	99.0	99.0	99-99	99.0	-	-	-	-	-	-	99.0	99-99	99.0	-	-	-	-	-	-
NE (+CZ,DE)	ARBTH	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	0-0	0-0	39-39	1	221-221	9.5	9.5-9.5	9.5	-	-	-	99.0	99-99	99.0	99.0	99-99	99.0	-	-	-	-	-	-	99.0	99-99	99.0	-	-	-	-	-	-
NE (+CZ,DE)	CAPBP	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	0-0	10-10	37-37	1	213-213	19.5	19.5-19.5	19.5	100	100-100	100	100	100-100	100	-	-	-	-	-	-	100	100-100	100	-	-	-	-	-	-	-	-	
NE (+CZ,DE)	CENCY	YCERE	All at 2.6 L/ha	PLANT	0-7	0-0	39-73	3	221-286	28.3	6-66	13.0	-	-	-	28.4	7.5-68.8	8.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NE (+CZ,DE)	CENCY	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	0-7	0-0	39-73	2	221-286	9.5	6-13	9.5	-	-	-	8.2	7.5-8.8	8.2	10.7	7.5-13.8	10.7	-	-	-	-	-	-	19.4	17.5-21.3	19.4	-	-	-	-	-	-
NE (+CZ,DE)	CENCY	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	5-5	0-0	71-71	1	240-240	66.0	66-66	66.0	62.5	62.5-62.5	62.5	68.8	68.8-68.8	68.8	-	-	-	-	-	-	70.0	70-70	70.0	-	-	-	-	-	-	-	-	
NE (+CZ,DE)	FUMOF	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	0-1	0-5	37-37	2	184-188	13.7	12-15.3	13.7	-	-	-	82.5	80-85	82.5	90.0	80-100	90.0	85.0	80-90	85.0	-	-	-	-	-	92.7	86.3-99	92.7	-	-	-	-
NE (+CZ,DE)	GALAP	YCERE	All at 3.5 L/ha	PLANT	0-5	0-3	37-75	10	188-271	9.5	3-25	6.5	-	-	-	-	-	-	80.3	31.3-100	92.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NE (+CZ,DE)	GALAP	YCERE	All at 2.6 L/ha	PLANT	0-7	0-8	37-77	12	188-271	9.7	3-25	7.3	-	-	-	78.9	35-100	90.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NE (+CZ,DE)	GALAP	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	0-1	0-3	37-75	3	188-246	16.3	5-25	19.0	-	-	-	90.5	80-100	91.5	93.8	86.3-100	95.0	97.3	92.8-100	99.0	-	-	-	-	-	96.3	89.8-100	99.0	-	-	-	-
NE (+CZ,DE)	GALAP	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	0-3	0-0	39-73	2	221-253	6.4	3-9.8	6.4	-	-	-	48.8	37.5-60	48.8	53.8	32.5-75	53.8	-	-	-	-	-	48.8	22.5-75	48.8	-	-	-	-	-	-	
NE (+CZ,DE)	GALAP	YCERE	3.5 L vs. Naceto at 0.6 L/ha	PLANT	0-5	0-3	53-69	4	213-248	7.3	4.3-12	6.5	-	-	-	-	-	-	95.8	90.5-99.5	96.5	-	-	-	-	-	-	-	-	-	-	-	97.9	93-100	99.4	
NE (+CZ,DE)	GALAP	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	0-7	0-8	37-77	7	200-271	7.8	3.7-18.3	6.0	77.3	20-100	82.5	82.6	35-98.8	91.3	-	-	-	-	-	-	83.8	38.8-98.8	91.3	-	-	-	-	-	-	-	-	
NE (+CZ,DE)	IGERG	YCERE	All at 3.5 L/ha	PLANT	0-5	0-5	37-55	4	188-238	11.3	8-18	9.5	-	-	-	-	-	-	92.9	81.3-100	95.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NE (+CZ,DE)	IGERG	YCERE	All at 2.6 L/ha	PLANT	1-6	0-5	37-69	3	188-231	7.3	5-9	8.0	-	-	-	98.3	95-100	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NE (+CZ,DE)	IGERG	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	1-1	5-5	37-37	1	188-188	9.0	9-9	9.0	-	-	-	100	100-100	100	100	100-100	100	100	100-100	100	-	-	-	-	-	100	100-100	100	-	-	-	-
NE (+CZ,DE)	IGERG	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	5-5	3-3	37-37	1	220-220	8.0	8-8	8.0	96.3	96.3-96.3	96.3	95.0	95-95	95.0	100	100-100	100	-	-	-	-	-	93.8	93.8-93.8	93.8	-	-	-	-	-	-	
NE (+CZ,DE)	IGERG	YCERE	3.5 L vs. Naceto at 0.6 L/ha	PLANT	0-5	0-5	53-55	2	229-238	14.0	10-18	14.0	-	-	-	-	-	-	85.9	81.3-90.5	85.9	-	-	-	-	-	-	-	-	-	-	-	100	100-100	100	
NE (+CZ,DE)	IGERG	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	6-6	0-0	69-69	1	231-231	5.0	5-5	5.0	100	100-100	100	100	100-100	100	-	-	-	-	-	100	100-100	100	-	-	-	-	-	-	-	-	-	
NE (+CZ,DE)	MATCH	YCERE	All at 3.5 L/ha	PLANT	0-0	0-0	53-65	3	213-229	21.2	2.3-39	22.3	-	-	-	-	-	-	88.1	80-95	89.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NE (+CZ,DE)	MATCH	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	0-0	0-0	65-65	1	213-213	22.3	22.3-22.3	22.3	-	-	-	82.3	82.3-82.3	82.3	89.3	89.3-89.3	89.3	98.8	98.8-98.8	98.8	-	-	-	-	-	88.0	88-88	88.0	-	-	-	-
NE (+CZ,DE)	MATCH	YCERE	3.5 L vs. Naceto at 0.6 L/ha	PLANT	0-0	0-0	53-61	2	213-229	20.7	2.3-39	20.7	-	-	-	-	-	-	87.5	80-95	87.5	-	-	-	-	-	-	-	-	-	-	-	97.5	95-100	97.5	

GLOB1913H

Part B – Section 3

Globachem NV/Central Zone

EPPO zone	Target code	Crop code	Grouping	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Crop BBCH at ass.	Nb. trials	DA-A	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 1.6-1.7l/ha			PROSULFOCARB 900 EC at 2.6-2.7l/ha			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 CS at 4.4l/ha			Boxer 800 EC at 2.5-3l/ha			Roxy 800 EC at 4l/ha			Roxy 800 EC at 5l/ha			Naceto at 0.6l/ha		
										Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn
NE (+CZ,DE)	MATIN	YCERE	All at 3.5 L/ha	PLANT	0-8	0-3	37-75	10	206-253	7.5	1.8-19.5	7.0	-	-	-	-	-	-	69.3	5-100	75.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NE (+CZ,DE)	MATIN	YCERE	All at 2.6 L/ha	PLANT	0-8	0-3	37-77	12	200-253	10.3	1.8-34.5	8.0	-	-	-	58.9	0-100	64.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NE (+CZ,DE)	MATIN	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	0-8	0-3	39-75	3	206-246	4.9	1.8-8	5.0	-	-	-	50.4	11.3-100	40.0	71.3	43.8-100	70.0	75.4	46.3-100	80.0	-	-	-	-	-	-	82.1	70-100	76.3	-	-	-
NE (+CZ,DE)	MATIN	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	0-5	0-3	37-73	5	220-253	9.9	6-19.5	8.0	-	-	-	50.8	0-98.8	42.5	59.8	5-99	56.3	-	-	-	-	-	-	57.0	0-98.8	57.5	-	-	-	-	-	-
NE (+CZ,DE)	MATIN	YCERE	3.5 L vs. Naceto at 0.6 L/ha	PLANT	0-8	0-3	39-69	3	206-248	4.3	1.8-6	5.0	-	-	-	-	-	-	93.4	81.3-100	99.0	-	-	-	-	-	-	-	-	-	-	-	-	98.3	95-100	100
NE (+CZ,DE)	MATIN	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	0-5	0-0	37-77	4	200-252	14.8	6-34.5	9.4	63.4	25-92.5	68.1	75.3	56.3-90	77.5	-	-	-	-	-	-	75.9	55-95	76.9	-	-	-	-	-	-	-	-	
NE (+CZ,DE)	MYOAR	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	1-1	3-3	37-37	1	188-188	5.0	5-5	5.0	-	-	-	100	100-100	100	100	100-100	100	100	100-100	100	-	-	-	-	-	100	100-100	100	-	-	-	-
NE (+CZ,DE)	PAPRH	YCERE	All at 3.5 L/ha	PLANT	0-5	0-5	39-77	10	217-271	10.3	4.8-37	7.5	-	-	-	-	-	-	72.5	10-100	88.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NE (+CZ,DE)	PAPRH	YCERE	All at 2.6 L/ha	PLANT	0-7	0-12	37-77	13	200-271	10.9	4.8-37	9.0	-	-	-	65.9	5-100	68.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NE (+CZ,DE)	PAPRH	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	1-1	5-5	71-71	1	244-244	8.0	8-8	8.0	-	-	-	90.0	90-90	90.0	95.0	95-95	95.0	99.0	99-99	-	-	-	-	-	-	-	100	100-100	100	-	-	-
NE (+CZ,DE)	PAPRH	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	0-5	0-3	39-77	6	217-259	12.5	4.8-37	8.5	-	-	-	57.1	5-100	65.7	64.2	10-100	81.3	-	-	-	-	-	61.5	7.5-100	74.4	-	-	-	-	-	-	
NE (+CZ,DE)	PAPRH	YCERE	3.5 L vs. Naceto at 0.6 L/ha	PLANT	0-5	0-3	55-69	2	238-248	5.5	5-6	5.5	-	-	-	-	-	-	94.5	90-99	94.5	-	-	-	-	-	-	-	-	-	-	-	100	100-100	100	
NE (+CZ,DE)	PAPRH	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	0-7	0-12	37-77	6	200-271	9.8	5-18.5	9.0	49.4	0-100	47.5	70.6	47.5-100	69.4	-	-	-	-	-	70.8	50-100	68.1	-	-	-	-	-	-	-	-		
NE (+CZ,DE)	POLAV	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	2-2	0-0	71-71	1	271-271	8.4	8.4-8.4	8.4	5.0	5-5	5.0	5.0	5-5	5.0	-	-	-	-	-	5.0	5-5	5.0	-	-	-	-	-	-	-	-	-	
NE (+CZ,DE)	POLCO	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	2-2	0-0	71-71	1	271-271	15.0	15-15	15.0	5.0	5-5	5.0	5.0	5-5	5.0	-	-	-	-	-	5.0	5-5	5.0	-	-	-	-	-	-	-	-	-	
NE (+CZ,DE)	SCRAN	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	1-1	3-3	37-37	1	188-188	5.0	5-5	5.0	-	-	-	99.0	99-99	99.0	100	100-100	100	100	100-100	100	-	-	-	-	-	100	100-100	100	-	-	-	-
NE (+CZ,DE)	SSYOF	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	3-3	0-0	39-39	1	221-221	1.0	1-1	1.0	-	-	-	100	100-100	100	100	100-100	100	-	-	-	-	100	100-100	100	-	-	-	-	-	-	-	
NE (+CZ,DE)	STEME	YCERE	All at 3.5 L/ha	PLANT	0-5	0-5	39-77	11	198-271	11.1	5-37	8.0	-	-	-	-	-	-	89.2	45-100	99.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NE (+CZ,DE)	STEME	YCERE	All at 2.6 L/ha	PLANT	0-7	0-10	37-77	12	198-271	11.7	6-37	8.2	-	-	-	83.0	7.5-100	95.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NE (+CZ,DE)	STEME	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	0-0	0-0	51-51	1	198-198	17.8	17.8-17.8	17.8	-	-	-	100	100-100	100	100	100-100	100	100	100-100	100	-	-	-	-	-	96.3	96.3-96.3	96.3	-	-	-	
NE (+CZ,DE)	STEME	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	0-5	0-3	39-77	6	217-259	13.2	6-37	8.5	-	-	-	72.2	7.5-100	83.5	82.3	45-100	93.3	-	-	-	-	76.5	32.5-100	88.2	-	-	-	-	-	-	-	
NE (+CZ,DE)	STEME	YCERE	3.5 L vs. Naceto at 0.6 L/ha	PLANT	0-5	0-5	55-69	2	238-248	5.5	5-6	5.5	-	-	-	-	-	-	99.5	99-100	99.5	-	-	-	-	-	-	-	-	-	-	100	100-100	100		
NE (+CZ,DE)	STEME	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	0-7	0-10	37-71	5	200-271	8.7	6-13.3	8.0	81.8	46.3-100	85.0	-	-	-	-	-	-	-	-	87.0	50-100	95.0	-	-	-	-	-	-	-	-		
NE (+CZ,DE)	1VERG	YCERE	All at 3.5 L/ha	PLANT	0-5	0-5	21-71	6	147-271	18.6	4-75.5	7.6	-	-	-	-	-	-	89.5	72.5-100	92.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NE (+CZ,DE)	1VERG	YCERE	All at 2.6 L/ha	PLANT	0-6	0-51	21-71	8	147-271	16.3	4-75.5	8.1	-	-	-	89.9	60-100	99.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NE (+CZ,DE)	1VERG	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	0-0	0-0	21-21	1	147-147	7.3	7.3-7.3	7.3	-	-	-	73.8	73.8-73.8	73.8	85.0	85-85	85.0	75.0	75-75	75.0	-	-	-	-	-	91.5	91.5-91.5	91.5	-	-	-	

GLOB1913H  
 Part B – Section 3  
 Globachem NV/Central Zone

EPPO zone	Target code	Crop code	Grouping	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Crop BBCH at ass.	Nb. trials	DA-A	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 1.6-1.7L/ha			PROSULFOCARB 900 EC at 2.6-2.7L/ha			PROSULFOCARB 900 EC at 3.5L/ha			PROSULFOCARB 900 CS at 4.4L/ha			Boxer 800 EC at 2.5-3L/ha			Roxy 800 EC at 4L/ha			Roxy 800 EC at 5L/ha			Naceto at 0.6L/ha		
										Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn
NE (+CZ,DE)	IVERG	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	0-5	0-3	37-61	3	220-256	30.8	7-75.5	10.0	-	-	-	86.3	60-100	99.0	90.5	72.5-100	99.0	-	-	-	-	-	-	92.2	77.5-100	99.0	-	-	-	-	-	-
NE (+CZ,DE)	IVERG	YCERE	3.5 L vs. Naceto at 0.6 L/ha	PLANT	5-5	5-5	55-55	1	238-238	8.0	8-8	8.0	-	-	-	-	-	-	81.3	81.3-81.3	81.3	-	-	-	-	-	-	-	-	-	-	-	100	100-100	100	
NE (+CZ,DE)	IVERG	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	0-6	0-51	37-71	4	200-271	7.6	4-12.5	7.0	95.7	83.8-100	99.5	96.6	87.5-100	99.5	-	-	-	-	-	-	97.3	90-100	99.5	-	-	-	-	-	-	-	-	
NE (+CZ,DE)	VIOAR	YCERE	All at 3.5 L/ha	PLANT	0-8	0-55	37-77	8	188-271	52.5	6-294.5	10.7	-	-	-	-	-	-	58.3	0-100	68.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NE (+CZ,DE)	VIOAR	YCERE	All at 2.6 L/ha	PLANT	0-8	0-55	37-77	10	188-271	48.4	6-294.5	19.9	-	-	-	49.9	0-80	51.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NE (+CZ,DE)	VIOAR	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	1-8	0-3	37-39	3	188-219	24.9	7-56.3	11.3	-	-	-	43.3	0-80	50.0	45.8	0-70	67.5	54.6	0-83.8	80.0	-	-	-	-	-	-	52.5	0-80	77.5	-	-	-
NE (+CZ,DE)	VIOAR	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	0-7	0-55	39-77	4	217-286	90.1	6-294.5	29.9	36.3	20-52.5	36.3	31.0	10-53.8	30.0	58.1	25-100	53.8	-	-	-	-	-	52.2	27.5-72.5	54.4	-	-	-	-	-	-	
NE (+CZ,DE)	VIOAR	YCERE	3.5 L vs. Naceto at 0.6 L/ha	PLANT	5-5	5-5	55-55	1	238-238	7.0	7-7	7.0	-	-	-	-	-	-	75.0	75-75	75.0	-	-	-	-	-	-	-	-	-	-	100	100-100	100		
NE (+CZ,DE)	VIOAR	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	0-5	0-0	37-77	4	200-271	24.7	12.7-31.5	27.4	47.2	13.8-68.8	53.1	63.8	50-76.3	64.4	-	-	-	-	-	-	68.6	48.8-78.8	73.5	-	-	-	-	-	-	-		

## Conclusion

A total of 12 trials were carried out in the North-East EPPO Zone to evaluate the efficacy of GLOB1913H for the control of weeds on winter cereals (soft wheat, barley, triticale and rye) in pre-emergence application. Those trials have been conducted during 3 seasons between 2018 and 2021 in the Poland and Latvia. Those were combined with the results of the German and Czech trials (12 trials) since these are neighbouring countries and considered as valid to Poland. The combined results from 24 trials are thus shown.

Data demonstrated that the efficacy of GLOB1913H at the rates of 3.5 and 4.4 L/ha (this last one in support of the requested rate of 4 L/ha) was on average equivalent to the efficacy of standard products containing prosulfocarb in a formulation containing 800 g/L applied at a comparable amount of active substance.

In particular, against some weeds as e.g. loose silky bent (APESV), annual meadowgrass (POAAN), *Geranium* species (1GERG), wild chamomile (MATCH), common chickweed (STEME), GLOB1913H performed well at both rates, providing already a good control at the lowest requested rate.

In a few trials where the reference standard was Naceto, the overall control of GLOB1913H was slightly lower. This is expected since Naceto is a mixture of 2 different active substances and since prosulfocarb based products are often used in tank-mixtures in order to improve control and spectrum.

Generally, these results also confirm the results obtained from other EPPO climatic zones. Moreover, as the performance of GLOB1913H (900 g/L of prosulfocarb) is in general comparable with existing formulations based on 800 g/L of prosulfocarb, according to PP 1/307(2), extrapolation to the complete associated claims/uses for the authorized products e.g. Roxy 800 EC and the underlying supporting data can be claimed.

From the presented results it can be clearly concluded that several weeds commonly populating cereal fields are susceptible or highly susceptible to GLOB1913H applied at dose rates starting at 3.5 L/ha. As results are strongly linked to the weed species, reference is made to the tables below showing the susceptibility spectrum of the different weeds.

In some countries, standard products containing prosulfocarb in a formulation containing 800 g/L are authorized at ranges between 3 and 5 L/ha. Susceptibility spectrum for GLOB1913H at 2.6 L/ha is thus also shown below to better reflect local common practices.

Table 3.2-48 and Table 3.2-49 show respectively the overall mean efficacy results of GLOB1913H in 1 application of 1.6, 2.6, 3.5 and 4.4 L/ha (this last one in support of the requested rate of 4 L/ha) against grasses and broad leaved weeds. The overall susceptibility level of each weed at the proposed rates is also indicated.

Table 3.2-50 presents separately results from weed species that appeared in just one trial.

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**Table 3.2-48: Overall efficacy and susceptibility level to GLOB1913H (Prosulfocarb 900 EC) on winter cereals against grasses- pre-emergence application - North-East EPPO zone**

Means valid for Poland (when available, CZ and DE trials included in mean calculation)

EPPO zone	Target code	Crop code	Grouping	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Nb. Trials	Infestation in the untreated control (PLANT/M2)			PROPULFOCARB 900 EC at 1.3-1.6l/ha			PROPULFOCARB 900 EC at 2.6-2.7l/ha			PROPULFOCARB 900 EC at 3.5l/ha			PROPULFOCARB 900 EC at 4.4l/ha			Weighted mean at 2.6 L/ha (nb.trials)	Weighted mean at 3.5 L/ha (nb.trials)	Weighted mean at 4 L/ha (nb.trials)	Suscept. Level at 2.6 L/ha**	Suscept. Level at 3.5 L/ha**	Suscept. Level at 4 L/ha**,1
								Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn						
NE (+CZ,DE)	ALOMY	YCERE	All at 3.5 L/ha	PLANT	0-8	0-3	12	49.0	5.8-192.5	21.9	-	-	-	-	-	-	76.1	40-100	80.0	-	-	-	55.8 (5)	74.9 (12)	67.4 (5)	MT	MS	MS
			All at 4.4 L/ha		0-8	0-3	5	33.3	5.8-94.8	21.3	-	-	-	56.8	23.8-95	55.0	68.7	40-99	72.5	66.2	15-99	68.8						
			All at 3.5 L/ha	EAR	0-8	0-3	12	114.2	6-291	86.1	-	-	-	-	-	-	73.6	31.9-100	81.9	-	-	-						
			All at 4.4 L/ha		0-8	0-3	5	124.8	32.5-252	74.0	-	-	-	54.9	24-92.7	49.8	62.5	31.9-96.3	52.5	68.6	34.2-96.4	64.0						
NE (+CZ,DE)	APESV	YCERE	All at 3.5 L/ha	PLANT	0-7	0-3	5	7.9	3.7-15	6.0	-	-	-	92.8	67.5-100	98.8	95.8	80-100	100.0	-	-	-	96.1 (9)	95.7 (5)	-	HS	HS	HS
			All at 2.6 L/ha		0-7	0-33	9	16.7	3.7-52	10.0	-	-	-	94.2	67.5-100	98.8	-	-	-	-	-	-						
			All at 3.5 L/ha	EAR	0-7	0-3	5	35.8	10-131	12.0	-	-	-	98.5	95.8-100	98.8	98.9	94.6-100	100.0	-	-	-						
			All at 2.6 L/ha		0-7	0-33	9	48.7	9-196.5	14.8	-	-	-	98.1	90.3-100	100.0	-	-	-	-	-	-						
NE (+CZ,DE)	POAAN	YCERE	All at 2.6 L/ha	PLANT	0-6	0-10	4	12.3	5-19	12.6	85.3	62.5-100	89.4	90.4	71.3-100	95.1	-	-	-	-	-	-	88.9 (4)	-	-	S	S	S
			All at 2.6 L/ha	EAR	0-5	0-10	2	11.0	0-22	11.0	81.3	62.5-100	81.3	85.9	71.8-100	85.9	-	-	-	-	-	-						

1) It can be expected that GLOB1913H applied at a 4 L/ha will perform at least as good as 3.5 L/ha. When this was not the case, the susceptibility level at 3.5 L/ha was reported also for 4 L/ha since a higher number of trials was available for 3.5 L/ha and thus the average control is even more reliable.

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**Table 3.2-49: Overall efficacy and susceptibility level to GLOB1913H (Prosulfocarb 900 EC) on winter cereals against broad leaved weeds - pre-emergence application - North-East EPPO zone**

Means valid for Poland (when available, CZ and DE trials included in mean calculation)

EPPO zone	Target code	Crop code	Grouping	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Nb. Trials	Infestation in the untreated control (PLANT/M2)			PROPULFOCARB 900 EC at 2.6-2.7l/ha			PROPULFOCARB 900 EC at 3.5l/ha			PROPULFOCARB 900 EC at 4.4l/ha			Suscept. Level at 2.6 L/ha**	Suscept. Level at 3.5 L/ha**	Suscept. Level at 4 L/ha**, <sup>1</sup>
								Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn			
NE (+CZ,DE)	CENCY	YCERE	All at 2.6 L/ha	PLANT	0-7	0-0	3	28.3	6-66	13.0	28.4	7.5-68.8	8.8	-	-	-	-	-	-	T	T	-
			All at 3.5 L/ha	PLANT	0-7	0-0	2	9.5	6-13	9.5	8.2	7.5-8.8	8.2	10.7	7.5-13.8	10.7	-	-	-			
NE (+CZ,DE)	FUMOF	YCERE	All at 4.4 L/ha	PLANT	0-1	0-5	2	13.7	12-15.3	13.7	82.5	80-85	82.5	90.0	80-100	90.0	85.0	80-90	85.0	MS	S	S
NE (+CZ,DE)	GALAP	YCERE	All at 2.6 L/ha	PLANT	0-7	0-8	12	9.7	3-25	7.3	78.9	35-100	90.7	-	-	-	-	-	-	MS	MS	HS
			All at 3.5 L/ha	PLANT	0-5	0-3	10	9.5	3-25	6.5	-	-	-	80.3	31.3-100	92.8	-	-	-			
			All at 4.4 L/ha	PLANT	0-1	0-3	3	16.3	5-25	19.0	90.5	80-100	91.5	93.8	86.3-100	95.0	97.3	92.8-100	99.0			
NE (+CZ,DE)	IGERG	YCERE	All at 3.5 L/ha	PLANT	0-5	0-5	4	11.3	8-18	9.5	-	-	-	92.9	81.3-100	95.3	-	-	-	HS	S	HS
			All at 2.6 L/ha	PLANT	1-6	0-5	3	7.3	5-9	8.0	98.3	95-100	100.0	-	-	-	-	-	-			
			All at 4.4 L/ha	PLANT	1-1	5-5	1	9.0	9-9	9.0	100.0	100-100	100.0	100.0	100-100	100.0	100.0	100-100	100.0			
NE (+CZ,DE)	MATCH	YCERE	All at 3.5 L/ha	PLANT	0-0	0-0	3	21.2	2.3-39	22.3	-	-	-	88.1	80-95	89.3	-	-	-	MS	S	HS
			All at 4.4 L/ha	PLANT	0-0	0-0	1	22.3	22.3-22.3	22.3	82.3	82.3-82.3	82.3	89.3	89.3-89.3	89.3	98.8	98.8-98.8	98.8			
NE (+CZ,DE)	MATIN	YCERE	All at 3.5 L/ha	PLANT	0-8	0-3	10	7.5	1.8-19.5	7.0	-	-	-	69.3	5-100	75.6	-	-	-	MT	MT	MS
			All at 2.6 L/ha	PLANT	0-8	0-3	12	10.3	1.8-34.5	8.0	58.9	0-100	64.4	-	-	-	-	-	-			
			All at 4.4 L/ha	PLANT	0-8	0-3	3	4.9	1.8-8	5.0	50.4	11.3-100	40.0	71.3	43.8-100	70.0	75.4	46.3-100	80.0			
NE (+CZ,DE)	PAPRH	YCERE	All at 3.5 L/ha	PLANT	0-5	0-5	10	10.3	4.8-37	7.5	-	-	-	72.5	10-100	88.2	-	-	-	MT	MS	HS
			All at 2.6 L/ha	PLANT	0-7	0-12	13	10.9	4.8-37	9.0	65.9	5-100	68.8	-	-	-	-	-	-			
			All at 4.4 L/ha	PLANT	1-1	5-5	1	8.0	8-8	8.0	90.0	90-90	90.0	95.0	95-95	95.0	99.0	99-99	-			
NE (+CZ,DE)	STEME	YCERE	All at 3.5 L/ha	PLANT	0-5	0-5	11	11.1	5-37	8.0	-	-	-	89.2	45-100	99.0	-	-	-	MS	S	HS
			All at 2.6 L/ha	PLANT	0-7	0-10	12	11.7	6-37	8.2	83.0	7.5-100	95.4	-	-	-	-	-	-			
			All at 4.4 L/ha	PLANT	0-0	0-0	1	17.8	17.8-17.8	17.8	100.0	100-100	100.0	100.0	100-100	100.0	100.0	100-100	100.0			
NE (+CZ,DE)	IVERG	YCERE	All at 3.5 L/ha	PLANT	0-5	0-5	6	18.6	4-75.5	7.6	-	-	-	89.5	72.5-100	92.0	-	-	-	S	S	S
			All at 2.6 L/ha	PLANT	0-6	0-51	8	16.3	4-75.5	8.1	89.9	60-100	99.0	-	-	-	-	-	-			
			All at 4.4 L/ha	PLANT	0-0	0-0	1	7.3	7.3-7.3	7.3	73.8	73.8-73.8	73.8	85.0	85-85	85.0	75.0	75-75	75.0			
NE (+CZ,DE)	VIOAR	YCERE	All at 3.5 L/ha	PLANT	0-8	0-55	9	52.2	6-294.5	11.3	-	-	-	55.7	0-100	67.5	-	-	-	T	MT	MT
			All at 2.6 L/ha	PLANT	0-8	0-55	11	48.5	6-294.5	27.0	46.3	0-80	50.0	-	-	-	-	-	-			
			All at 4.4 L/ha	PLANT	1-8	0-3	3	24.9	7-56.3	11.3	43.3	0-80	50.0	45.8	0-70	67.5	54.6	0-83.8	80.0			

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\*\*T=Tolerant; MT=Moderately Tolerant; MS=Moderately Susceptible; S=Susceptible; HS=Highly Susceptible

1) It can be expected that GLOB1913H applied at a 4 L/ha will perform at least as good as 3.5 L/ha. When this was not the case, the susceptibility level at 3.5 L/ha was reported also for 4 L/ha since a higher number of trials was available for 3.5 L/ha and thus the average control is even more reliable.

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**Table 3.2-50: Overall efficacy and susceptibility level to GLOB1913H (Prosulfocarb 900 EC) on winter cereals against weeds which occurred in only one trial - pre-emergence application - North-East EPPO zone**

Means valid for Poland (when available, CZ and DE trials included in mean calculation)

EPPO zone	Target code	Crop code	Grouping	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Nb. Trials	Infestation in the untreated control (PLANT/M2)			PROPULFOCARB 900 EC at 2.6-2.7l/ha			PROPULFOCARB 900 EC at 3.5l/ha			PROPULFOCARB 900 EC at 4.4l/ha			Suscept. Level at 2.6 L/ha**	Suscept. Level at 3.5 L/ha**	Suscept. Level at 4 L/ha**
								Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn			
NE (+CZ,DE)	APHAR	YCERE	All at 3.5 L/ha	PLANT	0-0	0-0	1	24.5	24.5-24.5	24.5	99.0	99-99	99.0	99.0	99-99	99.0	-	-	-	HS	HS	HS
NE (+CZ,DE)	ARBTH	YCERE	All at 3.5 L/ha	PLANT	0-0	0-0	1	9.5	9.5-9.5	9.5	99.0	99-99	99.0	99.0	99-99	99.0	-	-	-	HS	HS	HS
NE (+CZ,DE)	CAPBP	YCERE	All at 2.6 L/ha	PLANT	0-0	10-10	1	19.5	19.5-19.5	19.5	100.0	100-100	100.0	-	-	-	-	-	-	HS	HS	HS
NE (+CZ,DE)	MYOAR	YCERE	4.4 L/ha vP. Roxy at 5 L/ha	PLANT	1-1	3-3	1	5.0	5-5	5.0	100.0	100-100	100.0	100.0	100-100	100.0	100.0	100-100	100.0	HS	HS	HS
NE (+CZ,DE)	POLAV	YCERE	2.6 L/ha vP. Roxy at 3 L/ha	PLANT	2-2	0-0	1	8.4	8.4-8.4	8.4	5.0	5-5	5.0	-	-	-	-	-	-	T	-	-
NE (+CZ,DE)	POLCO	YCERE	2.6 L/ha vP. Roxy at 3 L/ha	PLANT	2-2	0-0	1	15.0	15-15	15.0	5.0	5-5	5.0	-	-	-	-	-	-	T	-	-
NE (+CZ,DE)	PCRAN	YCERE	4.4 L/ha vP. Roxy at 5 L/ha	PLANT	1-1	3-3	1	5.0	5-5	5.0	99.0	99-99	99.0	100.0	100-100	100.0	100.0	100-100	100.0	HS	HS	HS
NE (+CZ,DE)	PPYOF	YCERE	3.5 L/ha vP. Roxy at 4 L/ha	PLANT	3-3	0-0	1	1.0	1-1	1.0	100.0	100-100	100.0	100.0	100-100	100.0	-	-	-	HS	HS	HS

\*\*T=Tolerant; MT=Moderately Tolerant; MS=Moderately Susceptible; S=Susceptible; HS=Highly Susceptible

### **South-East EPPO Zone**

A total of 5 trials were carried out in the South-East EPPO Zone to evaluate the efficacy of GLOB1913H for the control of weeds on winter cereals (soft wheat, barley) in pre-emergence application. Those trials have been conducted during 2 seasons between 2020 and 2021 in Croatia, Hungary and Romania.

Filon/Boxer/Fidox (prosulfocarb 800 g/L) was included in the trials as a uniform reference, applied at authorized label rate of 3 L/ha. Table headers report the most common product name/rate applied. Exceptions are specified in the detailed table.

The percentage of visual control at the final spring assessment containing enough weeds per square meters were summarized below for each weed. In case of grass weeds, also the counting of ears was in general performed. The final spring assessment, besides having a higher weed pressure compared to earlier assessments, also provides a long term view of the effects of the herbicide applied just after emergence. In very few cases, when the above criteria could not be met, an earlier assessment was chosen. The minimum population of 5 plants/m<sup>2</sup> was considered for validation of the trial and assessment.

Data are grouped by weed species and summarized at the end of each table by an orthogonal comparison of the control achieved by GLOB1913H to the one achieved by the reference products containing prosulfocarb at the same amount of active substance applied.

The color scheme used to classify the levels of weed control are described above in section 3.2.3 Efficacy tests (KCP 6.2).

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## Results

### Grass weeds

**Table 3.2-51: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against grasses – pre-emergence application - South-East EPPO Zone**

EPPO zone	Target code	Crop code	Grouping	Part Rated	Crop BBCH at appl.A	Weed BBCH at appl.A	Crop BBCH at ass.	Nb. trials	DA-B	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 2.6l/ha			Filon 80 EC at 3l/ha		
										Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn
S-E	APESV	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	0-3	0-0	65-87	5	182-214	18.0	6-40	12.5	74.7	17.5-96.3	94.4	75.0	20-96.8	95.0
S-E	APESV	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	EAR	0-3	0-0	65-87	5	182-214	25.3	6-63.8	9.3	71.3	31.8-97.2	93.4	71.0	37.4-96.4	88.3
S-E	POAAN	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	1-3	0-0	65-65	2	186-214	38.3	33.8-42.8	38.3	93.1	91.3-95	93.1	94.4	92.5-96.3	94.4
S-E	POAAN	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	EAR	1-3	0-0	65-65	2	186-214	27.7	23.3-32	27.7	95.7	95.7-95.8	95.7	95.8	94.6-97.1	95.8

### Broad leaved weeds

**Table 3.2-52: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against broadleaved weeds – pre-emergence application - South-East EPPO Zone**

EPPO zone	Target code	Crop code	Grouping	Part Rated	Crop BBCH at appl.A	Weed BBCH at appl.A	Crop BBCH at ass.	Nb. trials	DA-B	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 2.6l/ha			Filon 80 EC at 3l/ha		
										Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn
S-E	CONAR	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	0-0	0-0	65-65	1	197-197	8.0	8-8	8	58.8	58.8-58.8	58.75	61.3	61.3-61.3	61.25
S-E	DESSO	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	0-0	0-0	87-87	1	214-214	6.0	6-6	6	72.5	72.5-72.5	72.5	83.8	83.8-83.8	83.8
S-E	GALAP	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	1-1	0-0	65-65	1	214-214	9.0	9-9	9	90.0	90-90	90	90.0	90-90	90
S-E	PAPRH	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	1-3	0-0	65-65	2	186-214	57.3	55.5-59	57.3	71.3	70-72.5	71.3	75.6	71.3-80	75.6
S-E	STEME	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	0-3	0-0	65-87	4	186-214	36.1	14.8-67.8	30.9	70.0	32.5-91.3	78.1	85.1	70-92.5	88.9
S-E	VERHE	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	0-0	0-0	87-87	1	214-214	12.5	12.5-12.5	12.5	96.8	96.8-96.8	96.8	70.0	70-70	70

## Conclusion

A total of 5 trials were carried out in the South-East EPPO Zone to evaluate the efficacy of GLOB1913H for the control of weeds on winter cereals (wheat, barley) in pre-emergence application. Those trials have been conducted during 2 seasons between 2020 and 2021 in Croatia, Hungary and Romania.

Data demonstrated that the efficacy of GLOB1913H at the rate of 2.6 L/ha was on average equivalent to the efficacy of standard products containing prosulfocarb in a formulation containing 800 g/L applied at a comparable amount of active substance, which is the locally authorized rate of 3 L/ha.

Generally, these results also confirm the results obtained from other EPPO climatic zones.

In some countries, standard products containing prosulfocarb in a formulation containing 800 g/L are authorized at ranges between 3 and 5 L/ha. As the performance of GLOB1913H (900 g/L of prosulfocarb) is in general comparable with existing formulations based on 800 g/L of prosulfocarb, according to PP 1/307(2), extrapolation to the complete associated claims/uses for the authorized products e.g. Roxy 800 EC and the underlying supporting data can be claimed.

From the presented results it can be clearly concluded that several weeds commonly populating cereal fields are susceptible or moderately susceptible to GLOB1913H applied at dose rates starting at 2.6 L/ha. It can be expected that GLOB1913H applied at the requested rates 3.5-4 L/ha will perform at least as good as at 2.6 L/ha. Selectivity was tested at higher rates as well (see point 3.4.1). As results are strongly linked to the weed species, reference is made to the tables below showing the susceptibility spectrum of the different weeds.

Table 3.2-53 and Table 3.2-54 show respectively the overall mean efficacy results of GLOB1913H in 1 application of 2.6 L/ha against grasses and broad leaved weeds. The overall susceptibility level of each weed at the proposed rates is also indicated.

Table 3.2-55 presents separately results from weed species that appeared in just one trial.

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**Table 3.2-53: Overall efficacy and susceptibility level to GLOB1913H (Prosulfocarb 900 EC) on winter cereals against grasses- pre-emergence application - South-East EPPO Zone**

EPPO zone	Target code	Grouping	Part Rated	Crop BBCH at appl.a	Crop BBCH at appl.B	Weed BBCH at appl.A	Weed BBCH at appl.B	Nb. trials	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 2.6l/ha (pre-em)			Weighted mean at 2.6 L/ha	Suscept. Level at 2.6 L/ha**
									Mean	Min & Max	Mdn	Mean	Min & Max	Mdn		
S-E	APESV	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	0-3	11-12	0-0	10-11	5	18.0	6-40	12.5	74.7	17.5-96.3	94.4	73.0 (5)	MS
		2.6 L/ha vs. Roxy at 3 L/ha	EAR	0-3	11-12	0-0	10-11	5	25.3	6-63.8	9.3	71.3	31.8-97.2	93.4		
	POAAN	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	1-3	11-11	0-0	10-12	2	38.3	33.8-42.8	38.3	93.1	91.3-95	93.1	94.4 (2)	S
		2.6 L/ha vs. Roxy at 3 L/ha	EAR	1-3	11-11	0-0	10-12	2	27.7	23.3-32	27.7	95.7	95.7-95.8	95.7		

\*\*T=Tolerant; MT=Moderately Tolerant; MS=Moderately Susceptible; S=Susceptible; HS=Highly Susceptible

**Table 3.2-54: Overall efficacy and susceptibility level to GLOB1913H (Prosulfocarb 900 EC) on winter cereals against broad leaved weeds - pre-emergence application - South-East EPPO Zone**

EPPO zone	Target code	Grouping	Part Rated	Crop BBCH at appl.a	Crop BBCH at appl.B	Weed BBCH at appl.A	Weed BBCH at appl.B	Nb. trials	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 2.6l/ha (pre-em)			Suscept. Level at 2.6 L/ha**
									Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
S-E	PAPRH	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	1-3	11-11	0-0	9-11	2	57.3	55.5-59	57.3	71.3	70-72.5	71.3	MS
	STEME	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	0-3	11-12	0-0	0-12	4	36.1	14.8-67.8	30.9	70.0	32.5-91.3	78.1	MS

\*\*T=Tolerant; MT=Moderately Tolerant; MS=Moderately Susceptible; S=Susceptible; HS=Highly Susceptible

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**Table 3.2-55: Overall efficacy and susceptibility level to GLOB1913H (Prosulfocarb 900 EC) on winter cereals against weeds which occurred in only one trial - pre-emergence application - South-East EPPO Zone**

EPPO zone	Target code	Grouping	Part Rated	Crop BBCH at appl.A	Crop BBCH at appl.B	Weed BBCH at appl.A	Weed BBCH at appl.B	Nb. trials	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 2.6l/ha (pre-em)			Suscept. Level at 2.6 L/ha**
									Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
S-E	CONAR	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	0-0	11-11	0-0	0-0	1	8.0	8-8	8	58.8	58.8-58.8	58.75	MT
	DESSO	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	0-0	12-12	0-0	12-12	1	6.0	6-6	6	72.5	72.5-72.5	72.5	MS
	GALAP	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	1-1	11-11	0-0	10-10	1	9.0	9-9	9	90.0	90-90	90	S
	VERHE	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	0-0	12-12	0-0	10-10	1	12.5	12.5-12.5	12.5	96.8	96.8-96.8	96.8	HS

\*\*T=Tolerant; MT=Moderately Tolerant; MS=Moderately Susceptible; S=Susceptible; HS=Highly Susceptible

## Mediterranean EPPO Zone

A total of 12 trials were carried out in the Mediterranean EPPO Zone to evaluate the efficacy of GLOB1913H for the control of weeds on winter cereals (soft wheat, durum wheat and barley) in pre-emergence application. Those trials have been conducted during 2 seasons between 2018 and 2020 in Croatia, southern part of France, Italy and Spain.

As a lower dose rate was included in most of the trials, these results are presented in detail under point 3.2.3 Efficacy tests but summarized and also discussed above under point 3.2.2 Minimum effective dose tests.

Roxy 800 EC/Auros/Defi/Filon/Polarpec (all prosulfocarb 800 g/L) were included in the majority of trials as a uniform reference, applied at authorized label rates. In a few trials where a prosulfocarb 800 g/L was not available for comparison or not authorized in the country, Fuga Delta, Herold, Battle Delta (diflufenican + flufenacet) was used at 0.6 L/ha. Table headers report the most common product name/rate applied. Exceptions are specified in the detailed table.

The percentage of visual control at the final spring assessment containing enough weeds per square meters were summarized below for each weed. In case of grass weeds, also the counting of ears was in general performed. The final spring assessment, besides having a higher weed pressure compared to earlier assessments, also provides a long term view of the effects of the herbicide applied just after emergence. In very few cases, when the above criteria could not be met, an earlier assessment was chosen. The minimum population of 5 plants/m<sup>2</sup> was considered for validation of the trial and assessment.

Data are grouped by weed species and summarized at the end of each table by an orthogonal comparison of the control achieved by GLOB1913H to the one achieved by the reference products containing prosulfocarb at the same amount of active substance applied. If the same subset of trials had tested other rates of GLOB1913H, means are presented also for those rates. An additional comparison is provided across all trials and dose rates of GLOB1913H (grouping “All”). Some species were grouped according to taxonomic and biological similarity (i.e. *Stelaria* species, EPPO code 1STEG).

The color scheme used to classify the levels of weed control are described above in section 3.2.3 Efficacy tests (KCP 6.2).

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# Results

## Grass weeds

**Table 3.2-56: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against grasses – pre-emergence application – Mediterranean EPPO zone**

EPPO zone	Target code	Crop code	Grouping	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Crop BBCH at ass.	Nb. trials	DA-A	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 2.6-2.7l/ha			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 4.4l/ha			Roxy at 5l/ha			Fuga Delta at 0.6l/ha		
										Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn
MED	AVEST	YCERE	All	PLANT	6-6	0-0	65-65	1	182-182	7.5	7.5-7.5	7.5	62.5	62.5-62.5	62.5	83.8	83.8-83.8	83.8	82.5	82.5-82.5	82.5	83.8	83.8-83.8	83.8	86.3	86.3-86.3	86.3
			All	EAR	1-6	0-0	65-83	2	182-219	6.4	5.3-7.5	6.4	76.0	71.7-80.4	76.0	80.4	60.8-100	80.4	92.9	85.8-100	92.9	95.0	90-100	95.0	-	-	-
MED	LOLMU	YCERE	All at 4.4 L	PLANT	0-3	0-0	61-77	6	132-218	13.9	5-28	13.2	-	-	-	-	-	-	91.6	85-100	90.6	-	-	-	-	-	-
			vs. Roxy at 5 L/ha		0-1	0-0	61-77	4	132-218	11.9	5-18.3	12.2	76.4	57.5-96.3	76.0	82.9	70-97.5	82.0	90.6	85-100	88.8	92.5	84.4-98.8	93.5	-	-	-
			4.4 L vs. Fuga Delta at 0.6 L/ha		0-3	0-0	65-67	2	198-211	18.0	8-28	18.0	-	-	-	-	-	-	93.4	91.3-95.6	93.4	-	-	-	95.6	95.6-95.6	95.6
			All at 4.4 L	EAR	0-3	0-0	61-77	4	140-218	26.7	5-67	17.4	-	-	-	-	-	-	95.9	91.5-100	96.0	-	-	-	-	-	-
			vs. Roxy at 5 L/ha		0-0	0-0	61-77	2	140-218	36.0	5-67	36.0	86.6	83.5-89.6	86.6	92.7	91.7-93.8	92.7	95.7	91.5-100	95.7	95.2	93.5-96.9	95.2	-	-	-
			4.4 L vs. Fuga Delta at 0.6 L/ha		0-3	0-0	65-67	2	198-211	17.4	6.8-28	17.4	-	-	-	-	-	-	96.0	95.6-96.4	96.0	-	-	-	100.0	100-100	100.0
MED	LOLPE	YCERE	All at 4.4 L	PLANT	0-3	0-0	65-67	2	184-185	292.3	259.5-325	292.3	-	-	-	-	-	-	56.9	38.8-75	56.9	-	-	-	-	-	-
			vs. Roxy at 5 L/ha		3-3	0-0	65-65	1	184-184	259.5	259.5-259.5	259.5	77.5	77.5-77.5	77.5	75.0	75-75	75.0	75.0	75-75	75.0	76.3	76.3-76.3	76.3	-	-	-
			4.4 L vs. Fuga Delta at 0.6 L/ha		0-0	0-0	67-67	1	185-185	325.0	325-325	325.0	-	-	-	-	-	-	38.8	38.8-38.8	38.8	-	-	-	37.5	37.5-37.5	37.5
			vs. Roxy at 5 L/ha	EAR	1-3	0-0	65-83	2	184-219	151.2	9.8-292.5	151.2	67.1	54.2-80.1	67.1	62.7	51-74.3	62.7	69.4	52.4-86.5	69.4	77.5	56.9-98.1	77.5	-	-	-
MED	LOLRI	YCERE	vs. Roxy at 5 L/ha	PLANT	1-3	0-0	66-72	2	163-191	11.0	7.5-14.5	11.0	42.5	15-70	42.5	55.0	25-85	55.0	75.0	62.5-87.5	75.0	71.3	57.5-85	71.3	-	-	-
			vs. Roxy at 5 L/ha	EAR	1-3	0-0	66-72	2	163-191	55.7	30.3-81	55.7	61.2	39.2-83.3	61.2	80.6	67.3-94	80.6	90.7	86.3-95.2	90.7	78.6	62.5-94.7	78.6	-	-	-
MED	POAAN	YCERE	All at 4.4 L	PLANT	0-6	0-0	61-67	6	132-212	121.9	9.5-488	65.7	-	-	-	-	-	-	83.7	42.5-96.3	90.8	-	-	-	-	-	-
			vs. Roxy at 5 L/ha		0-6	0-0	61-65	4	132-212	42.1	9.5-93.2	32.9	75.8	65-90	74.1	87.3	77.5-95.6	88.1	90.9	87.8-94.4	90.8	91.7	87-95.6	92.1	-	-	-
			4.4 L vs. Fuga Delta at 0.6 L/ha		0-3	0-0	65-67	2	185-211	281.5	75-488	281.5	-	-	-	-	-	-	69.4	42.5-96.3	69.4	-	-	-	66.3	38.8-93.8	66.3
			4.4 L vs. Fuga Delta at 0.6 L/ha	EAR	3-3	0-0	65-65	1	211-211	66.0	66-66	66.0	-	-	-	-	-	-	98.2	98.2-98.2	98.2	-	-	-	98.1	98.1-98.1	98.1

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# Broad leaved weeds

**Table 3.2-57: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against broadleaved weeds – pre-emergence application – Mediterranean EPPO zone**

EPPO zone	Target code	Crop code	Grouping	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Crop BBCH at ass.	Nb. trials	DA-A	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 2.6-2.7l/ha			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 4.4l/ha			Roxy at 5l/ha			Fuga Delta at 0.6l/ha		
										Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn
MED	CHYCO	YCERE	All	PLANT	0-0	0-0	63-63	1	132-132	6.5	6.5-6.5	6.5	80.8	80.8-80.8	80.8	88.5	88.5-88.5	88.5	90.0	90-90	90.0	97.3	97.3-97.3	97.3	-	-	-
MED	FUMOF	YCERE	All	PLANT	3-3	0-0	65-65	1	184-184	46.0	46-46	46.0	75.0	75-75	75.0	75.0	75-75	75.0	75.0	75-75	75.0	75.0	75-75	75.0	-	-	-
MED	GALAP	YCERE	vs. Roxy at 5 L/ha	PLANT	0-6	0-0	61-65	4	132-212	8.5	7.8-9.3	8.4	81.0	76.3-88.8	79.5	88.4	83.3-93.8	88.4	91.0	87-94.4	91.4	94.0	91.3-96.5	94.1	-	-	-
			4.4 L vs. Fuga Delta at 0.6 L/ha	PLANT	3-3	0-0	65-65	1	211-211	11.3	11.3-11.3	11.3	-	-	-	-	-	-	93.8	93.8-93.8	93.8	-	-	-	91.3	91.3-91.3	91.3
MED	MATIN	YCERE	vs. Roxy at 5 L/ha	PLANT	0-6	0-0	61-66	4	132-182	24.4	7-71.5	9.5	54.7	17.5-77.5	61.9	68.1	28.8-84	79.8	72.8	45-87.8	79.1	75.6	47.5-87.8	83.6	-	-	-
			4.4 L vs. Fuga Delta at 0.6 L/ha	PLANT	0-3	0-0	65-67	2	198-211	6.9	5.8-8	6.9	-	-	-	-	-	-	80.0	65-95	80.0	-	-	-	97.5	95-100	97.5
MED	PAPRH	YCERE	vs. Roxy at 5 L/ha	PLANT	0-6	0-0	61-77	8	132-218	27.4	5-86.8	16.3	63.0	26.3-93.8	67.5	71.7	30-98.8	70.0	78.2	56.3-100	78.8	77.2	50-100	76.3	-	-	-
			4.4 L vs. Fuga Delta at 0.6 L/ha	PLANT	3-3	0-0	65-65	1	211-211	45.5	45.5-45.5	45.5	-	-	-	-	-	-	80.0	80-80	80.0	-	-	-	94.4	94.4-94.4	94.4
MED	SENVU	YCERE	All	PLANT	0-0	0-0	77-77	1	218-218	24.0	24-24	24.0	42.5	42.5-42.5	42.5	47.5	47.5-47.5	47.5	50.0	50-50	50.0	50.0	50-50	50.0	-	-	-
MED	SINAR	YCERE	All	PLANT	0-0	0-0	63-63	1	132-132	13.8	13.8-13.8	13.8	75.0	75-75	75.0	85.8	85.8-85.8	85.8	89.0	89-89	89.0	97.3	97.3-97.3	97.3	-	-	-
MED	ISTEG	YCERE	vs. Roxy at 5 L/ha	PLANT	0-6	0-0	61-77	7	132-218	33.7	4-88.5	24.0	82.1	70.8-98	80.0	89.6	76.3-98.8	93.1	91.5	82.5-100	91.3	91.1	76.3-100	92.5	-	-	-
			4.4 L vs. Fuga Delta at 0.6 L/ha	PLANT	0-3	0-0	65-67	2	198-211	37.4	15-59.8	37.4	-	-	-	-	-	-	97.8	95.6-100	97.8	-	-	-	97.2	94.4-100	97.2
MED	VERHE	YCERE	All	PLANT	0-3	0-0	65-77	2	184-218	24.0	7-41	24.0	81.9	72.5-91.3	81.9	86.3	72.5-100	86.3	85.0	70-100	85.0	86.3	72.5-100	86.3	-	-	-
MED	VIOAR	YCERE	All	PLANT	0-0	0-0	77-77	1	218-218	8.0	8-8	8.0	88.8	88.8-88.8	88.8	100.0	100-100	100.0	100.0	100-100	100.0	100.0	100-100	100.0	-	-	-

\*For STEME, 1 trial considered valid with 4 palnts/m2 since ground cover was 5%.

## Conclusion

A total of 12 trials were carried out in the Mediterranean EPPO Zone to evaluate the efficacy of GLOB1913H for the control of weeds on winter cereals (soft wheat, durum wheat and barley) in pre-emergence application. Those trials have been conducted during 2 seasons between 2018 and 2020 in Croatia, southern part of France, Italy and Spain.

Data demonstrated that the efficacy of GLOB1913H at the maximum rate of 4.4 L/ha (data in support of the requested rate of 4 L/ha) was on average equivalent to the efficacy of standard products containing prosulfocarb in a formulation containing 800 g/L applied at a comparable amount of active substance.

In particular, against some weeds as e.g. Italian ryegrass (LOLMU), annual meadowgrass (POAAN), cleavers (GALAP), and common chickweed (STEME), GLOB1913H performed well at both rates, providing already a good control at the lowest requested rate of 3.5 L/ha.

In a few trials where the reference standard was Fuga Delta or equivalent, the overall control of GLOB1913H was comparable concerning grasses and slightly lower concerning broadleaved weeds. This is expected since Naceto is a mixture of 2 different active substances and since prosulfocarb based products are often used in tank-mixtures in order to improve control and spectrum.

Generally, these results also confirm the results obtained from other EPPO climatic zones. Moreover, as the performance of GLOB1913H (900 g/L of prosulfocarb) is in general comparable with existing formulations based on 800 g/L of prosulfocarb, according to PP 1/307(2), extrapolation to the complete associated claims/uses for the authorized products e.g. Roxy 800 EC and the underlying supporting data can be claimed.

From the presented results it can be clearly concluded that several weeds commonly populating cereal fields are susceptible or highly susceptible to GLOB1913H applied at dose rates starting at 3.5 L/ha. As results are strongly linked to the weed species, reference is made to the tables below showing the susceptibility spectrum of the different weeds.

In some countries, standard products containing prosulfocarb in a formulation containing 800 g/L are authorized at ranges between 3 and 5 L/ha. Susceptibility spectrum for GLOB1913H at 2.6 L/ha is thus also shown below to better reflect local common practices.

Table 3.2-58 and Table 3.2-59 show respectively the overall mean efficacy results of GLOB1913H in 1 application of 3.5 and 4.4 L/ha (this last one in support of the requested rate of 4 L/ha) against grasses and broad leaved weeds. The overall susceptibility level of each weed at the proposed rates is also indicated.

Table 3.2-60 presents separately results from weed species that appeared in just one trial.

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**Table 3.2-58: Overall efficacy and susceptibility level to GLOB1913H (Prosulfocarb 900 EC) on winter cereals against grasses- pre-emergence application - Mediterranean EPPO zone**

The table below shows the weighted mean from different plant parts assessed (plant and ears) and regardless of the reference product used for the original grouping of means as presented in the tables above in order to calculate the susceptibility level from the highest number of trials available in support of each dose rate.

EPPO zone	Target code	Crop code	Grouping	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Nb. Trials	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 2.6-2.7l/ha			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 4.4l/ha			Weighted mean at 2.6 L/ha (nb.trials)	Weighted mean at 3.5 L/ha (nb.trials)	Weighted mean at 4 L/ha (nb.trials)	Suscept. Level at 2.6 L/ha**	Suscept. Level at 3.5 L/ha**	Suscept. Level at 4 L/ha** <sup>1</sup>	
								Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn							
MED	AVEST	YCERE	All at 4.4 L	PLANT	6-6	0-0	1	7.5	7.5-7.5	7.5	62.5	62.5-62.5	62.5	83.8	83.8-83.8	83.8	82.5	82.5-82.5	82.5	71.5 (2)	81.5 (2)	89.4 (2)	MS	MS	S	
				EAR	1-6	0-0	2	6.4	5.3-7.5	6.4	76.0	71.7-80.4	76.0	80.4	60.8-100	80.4	92.9	85.8-100	92.9							
MED	LOLMU	YCERE	All at 4.4 L	PLANT	0-3	0-0	6	13.9	5-28	13.2	-	-	-	-	-	-	91.6	85-100	90.6	-	-	93.3 (6)	MS	S	S	
				EAR	0-3	0-0	4	26.7	5-67	17.4	-	-	-	-	-	-	95.9	91.5-100	96.0							
			All at 3.5 L	PLANT	0-1	0-0	4	11.9	5-18.3	12.2	76.4	57.5-96.3	76.0	82.9	70-97.5	82.0	90.6	85-100	88.8	79.8 (4)	86.2 (4)	-				
				EAR	0-0	0-0	2	36.0	5-67	36.0	86.6	83.5-89.6	86.6	92.7	91.7-93.8	92.7	95.7	91.5-100	95.7							
MED	LOLPE	YCERE	All at 3.5 L	PLANT	3-3	0-0	1	259.5	259.5-259.5	259.5	77.5	77.5-77.5	77.5	75.0	75-75	75.0	75.0	75-75	75.0	70.6 (2)	66.8 (2)	71.3 (2)	MS	MS	MS	
				EAR	1-3	0-0	2	151.2	9.8-292.5	151.2	67.1	54.2-80.1	67.1	62.7	51-74.3	62.7	69.4	52.4-86.5	69.4							
MED	LOLRI	YCERE	All at 4.4 L	PLANT	1-3	0-0	2	11.0	7.5-14.5	11.0	42.5	15-70	42.5	55.0	25-85	55.0	75.0	62.5-87.5	75.0	51.9 (2)	67.8 (2)	82.9 (2)	MT	MT	MS	
				EAR	1-3	0-0	2	55.7	30.3-81	55.7	61.2	39.2-83.3	61.2	80.6	67.3-94	80.6	90.7	86.3-95.2	90.7							
MED	POAAN	YCERE	All at 4.4 L	PLANT	0-6	0-0	6	121.9	9.5-488	65.7	-	-	-	-	-	-	83.7	42.5-96.3	90.8	75.8 (4)	87.3 (4)	83.7 (6)	S	S	S	
			All at 3.5 L	PLANT	0-6	0-0	4	42.1	9.5-93.2	32.9	75.8	65-90	74.1	87.3	77.5-95.6	88.1	90.9	87.8-94.4	90.8							

\*\*T=Tolerant; MT=Moderately Tolerant; MS=Moderately Susceptible; S=Susceptible; HS=Highly Susceptible

1) It can be expected that GLOB1913H applied at a lower rate will perform at least as good as a higher rate. When this was not the case, the susceptibility level at the closes lower rate was reported.

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**Table 3.2-59: Overall efficacy and susceptibility level to GLOB1913H (Prosulfocarb 900 EC) on winter cereals against broad leaved weeds - pre-emergence application - Mediterranean EPPO zone**

The table below shows the susceptibility level from the highest number of trials available in support of both requested dose rates.

EPPO zone	Target code	Crop code	Grouping	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Nb. Trials	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 2.6-2.7l/ha			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 4.4l/ha			Suscept. Level at 2.6 L/ha**	Suscept. Level at 3.5 L/ha**	Suscept. Level at 4 L/ha**
								Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn			
MED	GALAP	YCERE	All at 3.5 L	PLANT	0-6	0-0	4	8.5	7.8-9.3	8.4	81.0	76.3-88.8	79.5	88.4	83.3-93.8	88.4	91.0	87-94.4	91.4	MS	S	S
MED	MATIN	YCERE	All at 3.5 L	PLANT	0-6	0-0	4	24.4	7-71.5	9.5	54.7	17.5-77.5	61.9	68.1	28.8-84	79.8	72.8	45-87.8	79.1	MT	MT	MS
MED	PAPRH	YCERE	All at 3.5 L	PLANT	0-6	0-0	8	27.4	5-86.8	16.3	63.0	26.3-93.8	67.5	71.7	30-98.8	70.0	78.2	56.3-100	78.8	MT	MS	MS
MED	ISTEG	YCERE	All at 3.5 L	PLANT	0-6	0-0	7	33.7	4-88.5	24.0	82.1	70.8-98	80.0	89.6	76.3-98.8	93.1	91.5	82.5-100	91.3	MS	S	S
MED	VERHE	YCERE	All	PLANT	0-3	0-0	2	24.0	7-41	24.0	81.9	72.5-91.3	81.9	86.3	72.5-100	86.3	85.0	70-100	85.0	MS	S	S

\*\*T=Tolerant; MT=Moderately Tolerant; MS=Moderately Susceptible; S=Susceptible; HS=Highly Susceptible

**Table 3.2-60: Overall efficacy and susceptibility level to GLOB1913H (Prosulfocarb 900 EC) on winter cereals against weeds which occurred in only one trial - pre-emergence application - Mediterranean EPPO zone**

EPPO zone	Target code	Crop code	Grouping	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Nb. Trials	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 2.6-2.7l/ha			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 4.4l/ha			Suscept. Level at 2.6 L/ha**	Suscept. Level at 3.5 L/ha**	Suscept. Level at 4 L/ha**
								Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn			
MED	CHYCO	YCERE	All	PLANT	0-0	0-0	1	6.5	6.5-6.5	6.5	80.8	80.8-80.8	80.8	88.5	88.5-88.5	88.5	90.0	90-90	90.0	MS	S	S
MED	FUMOF	YCERE	All	PLANT	3-3	0-0	1	46.0	46-46	46.0	75.0	75-75	75.0	75.0	75-75	75.0	75.0	75-75	75.0	MS	MS	MS
MED	SENVU	YCERE	All	PLANT	0-0	0-0	1	24.0	24-24	24.0	42.5	42.5-42.5	42.5	47.5	47.5-47.5	47.5	50.0	50-50	50.0	T	T	MT
MED	SINAR	YCERE	All	PLANT	0-0	0-0	1	13.8	13.8-13.8	13.8	75.0	75-75	75.0	85.8	85.8-85.8	85.8	89.0	89-89	89.0	MS	S	S
MED	VIOAR	YCERE	All	PLANT	0-0	0-0	1	8.0	8-8	8.0	88.8	88.8-88.8	88.8	100.0	100-100	100.0	100.0	100-100	100.0	S	HS	HS

\*\*T=Tolerant; MT=Moderately Tolerant; MS=Moderately Susceptible; S=Susceptible; HS=Highly Susceptible



## Post-emergence application

### Maritime EPPO zone

A total of 41 trials were carried out in the Maritime EPPO Zone to evaluate the efficacy of GLOB1913H for the control of weeds on winter cereals (soft wheat, barley, triticale and rye). Those trials have been conducted during 4 seasons between 2018 and 2021 in the Czech Republic, Denmark, France, Germany, Sweden, United Kingdom, the Netherlands and the maritime part of Poland (3 trials in western part of Odra River).

As a lower dose rate was included in most of the trials, these results are presented in detail under point 3.2.3 Efficacy tests but summarized and also discussed above under point 3.2.2 Minimum effective dose tests.

Roxy/Boxer 800 EC (prosulfocarb 800 g/L) was included in the majority of trials as a uniform reference, applied at authorized label rates. In a few trials where a prosulfocarb 800 g/L was not available for comparison or not authorized in the country, Naceto (diflufenican + flufenacet) was used at 0.6 L/ha. Table headers report the most common product name/rate applied. Exceptions are specified in the detailed table.

The percentage of visual control at the final spring assessment containing enough weeds per square meters were summarized below for each weed. In case of grass weeds, also the counting of ears was in general performed. The final spring assessment, besides having a higher weed pressure compared to earlier assessments, also provides a long term view of the effects of the herbicide applied just after emergence. In very few cases, when the above criteria could not be met, an earlier assessment was chosen. The minimum population of 5 plants/m<sup>2</sup> was considered for validation of the trial and assessment.

Data are grouped by weed species and summarized at the end of each table by an orthogonal comparison of the control achieved by GLOB1913H to the one achieved by the reference products containing prosulfocarb at the same amount of active substance applied. If the same subset of trials had tested other rates of GLOB1913H, means are presented also for those rates. An additional comparison is provided across all trials and dose rates of GLOB1913H (grouping “All”). Some species were grouped according to taxonomic and biological similarity (i.e. *Geranium* and *Veronica* species, EPPO codes 1GERG, 1VERG...).

The color scheme used to classify the levels of weed control are described above in section 3.2.3 Efficacy tests (KCP 6.2).

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## Results

### Grass weeds

**Table 3.2-61: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against grasses – post-emergence application - Maritime EPPO zone**

EPPO zone	Target code	Crop code	Grouping	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Crop BBCH at ass.	Nb. trials	DA-A	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 2.6-2.7l/ha			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 4.4l/ha			Roxy 800 EC at 3l/ha			Roxy 800 EC at 4l/ha			Roxy 800 EC at 5l/ha			Naceto at 0.6l/ha		
										Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn
MAR	ALOMY	YCERE	All at 3.5 L/ha	PLANT	10-13	0-12	37-75	15	174-257	89.4	5-490	33.0	-	-	-	65.4	0-100	70.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MAR	ALOMY	YCERE	All at 4.4 L/ha vs. Roxy at 5 L/ha	PLANT	11-13	0-12	39-75	8	174-244	106.0	9.8-490	49.6	46.2	0-93.5	36.3	54.2	0-95	51.9	57.0	0-99	56.9	-	-	-	-	-	-	56.5	0-95	65.0	-	-	-
MAR	ALOMY	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	11-12	0-11	39-69	2	197-228	116.5	8-225	116.5	63.8	27.5-100	63.8	64.4	28.8-100	64.4	-	-	-	-	-	-	65.0	35-95	65.0	-	-	-	-	-	-
MAR	ALOMY	YCERE	3.5 L vs. Naceto at 0.6 L/ha	PLANT	10-12	0-12	37-69	5	202-257	52.0	5-120	16.0	-	-	-	83.8	57.5-100	91.3	-	-	-	-	-	-	-	-	-	-	-	95.7	83.8-100	99.8	-
MAR	ALOMY	YCERE	All at 3.5 L/ha	EAR	10-13	0-12	37-75	16	174-257	134.4	6-490	74.8	-	-	-	68.5	24.8-100	73.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MAR	ALOMY	YCERE	All at 4.4 L/ha vs. Roxy at 5 L/ha	EAR	11-13	0-12	39-75	9	174-244	157.7	15-490	95.5	62.2	21.5-95.2	54.0	63.9	24.8-95.1	64.0	64.7	12.8-98.4	69.5	-	-	-	-	-	-	65.2	14.4-96.8	78.3	-	-	-
MAR	ALOMY	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	EAR	11-12	0-11	39-69	2	197-228	116.5	8-225	116.5	64.3	28.6-100	64.3	66.3	32.6-100	66.3	-	-	-	-	-	-	57.0	30.7-83.3	57.0	-	-	-	-	-	-
MAR	ALOMY	YCERE	3.5 L vs. Naceto at 0.6 L/ha	EAR	10-12	0-12	37-69	5	202-257	99.7	6-298	16.0	-	-	-	77.6	46.9-100	93.1	-	-	-	-	-	-	-	-	-	-	-	93.8	78.2-100	97.5	-
MAR	APESV	YCERE	All at 3.5 L/ha	PLANT	11-13	10-13	65-85	14	195-257	28.4	5-149	13.5	-	-	-	96.6	84.3-100	99.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MAR	APESV	YCERE	All at 4.4 L/ha	PLANT	11-13	10-13	65-85	10	195-249	34.3	5-149	11.5	-	-	-	97.2	86.3-100	99.8	97.1	78.8-100	100.0	-	-	-	-	-	-	-	-	-	-	-	-
MAR	APESV	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	11-12	10-13	71-85	5	195-245	40.3	6-149	7.3	94.6	86.3-100	99.0	95.5	86.3-100	98.8	94.3	78.8-100	99.0	-	-	-	-	-	-	96.3	86.3-100	99.0	-	-	-
MAR	APESV	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	11-13	10-12	65-75	7	219-251	23.8	5-98	15.0	93.9	80-100	99.5	96.4	84.3-100	99.5	-	-	-	-	-	-	97.9	88-100	100.0	-	-	-	-	-	-
MAR	APESV	YCERE	3.5 L vs. Naceto at 0.6 L/ha	PLANT	12-12	10-10	65-71	2	244-257	9.0	6-12	9.0	-	-	-	99.9	99.8-100	99.9	-	-	-	-	-	-	-	-	-	-	-	100.0	100-100	100.0	-
MAR	APESV	YCERE	2.6 L/ha** vs. Roxy at 3 L/ha	PLANT	12-12	11-11	67-75	2	226-236	22.0	17-27	22.0	97.5	95-100	97.5	-	-	-	-	-	-	100.0	100-100	100.0	-	-	-	-	-	-	-	-	-
MAR	APESV	YCERE	All at 3.5 L/ha	EAR	10-13	0-13	65-85	18	195-283	46.0	3*-149	35.3	-	-	-	95.9	79.2-100	99.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MAR	APESV	YCERE	All at 4.4 L/ha	EAR	11-13	10-13	65-85	10	195-249	51.3	3-149	38.9	-	-	-	96.5	79.2-100	100.0	95.1	57.8-100	100.0	-	-	-	-	-	-	-	-	-	-	-	-
MAR	APESV	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	EAR	11-12	10-13	71-85	5	195-245	57.1	6-149	37.5	93.6	81.3-100	100.0	94.3	79.2-100	100.0	90.3	57.8-100	100.0	-	-	-	-	-	-	94.9	78.7-100	100.0	-	-	-
MAR	APESV	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	EAR	10-13	0-12	65-78	11	219-283	43.7	3-131	33.0	93.1	63.1-100	99.7	95.9	81-100	99.5	-	-	-	-	-	-	97.8	86.3-100	99.8	-	-	-	-	-	-
MAR	APESV	YCERE	3.5 L vs. Naceto at 0.6 L/ha	EAR	12-12	10-10	65-71	2	244-257	25.8	6-45.5	25.8	-	-	-	100.0	100-100	100.0	-	-	-	-	-	-	-	-	-	-	-	100.0	100-100	100.0	-
MAR	APESV	YCERE	2.6 L/ha** vs. Roxy at 3 L/ha	EAR	12-12	11-11	67-75	2	226-236	22.0	17-27	22.0	97.9	97.6-98.2	97.9	-	-	-	-	-	-	100.0	100-100	100.0	-	-	-	-	-	-	-	-	-
MAR	IAVEG	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	11-11	10-10	61-61	1	182-182	157.0	157-157	157.0	0.0	0-0	0.0	0.0	0-0	0.0	7.5	7.5-7.5	7.5	-	-	-	-	-	-	0.0	0-0	0.0	-	-	-

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Eppo zone	Target code	Crop code	Grouping	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Crop BBCH at ass.	Nb. trials	DA-A	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 2.6-2.7/ha			PROSULFOCARB 900 EC at 3.5/ha			PROSULFOCARB 900 EC at 4.4/ha			Roxy 800 EC at 3/ha			Roxy 800 EC at 4/ha			Roxy 800 EC at 5/ha			Naceto at 0.6l/ha		
										Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn
MAR	IAVEG	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	EAR	10-11	0-10	61-67	2	182-204	86.6	5.9-167.3	86.6	35.0	22.1-47.8	35.0	42.9	29.4-56.4	42.9	51.8	31.9-71.7	51.8	-	-	-	-	-	-	52.3	17.9-86.7	52.3	-	-	-
MAR	LOLMU	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	11-11	0-0	83-83	1	190-190	4*	4-4	4.0	70.0	70-70	70.0	82.5	82.5-82.5	82.5	90.0	90-90	90.0	-	-	-	-	-	-	85.0	85-85	85.0	-	-	-
MAR	LOLMU	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	EAR	11-11	0-0	83-83	1	190-190	8.0	8-8	8.0	87.1	87.1-87.1	87.1	85.7	85.7-85.7	85.7	100.0	100-100	100.0	-	-	-	-	-	-	100.0	100-100	100.0	-	-	-
MAR	POAAN	YCERE	All at 3.5 L/ha	PLANT	11-16	0-12	39-75	3	110-232	19.3	12-28	18.0	-	-	-	70.1	32.5-99	78.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MAR	POAAN	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	11-11	0-0	75-75	1	232-232	28.0	28-28	28.0	98.8	98.8-98.8	98.8	99.0	99-99	99.0	99.0	99-99	99.0	-	-	-	-	-	-	99.0	99-99	99.0	-	-	-
MAR	POAAN	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	12-16	10-12	39-60	2	110-203	15.0	12-18	15.0	-	-	-	55.6	32.5-78.8	55.6	-	-	-	-	-	-	52.5	25-80	52.5	-	-	-	-	-	-
MAR	POAAN	YCERE	All at 3.5 L/ha	EAR	11-16	0-12	41-75	3	110-232	33.8	5.5-78	18.0	-	-	-	70.5	39.3-100	72.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MAR	POAAN	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	EAR	11-11	0-0	75-75	1	232-232	5.5	5.5-5.5	5.5	100.0	100-100	100.0	100.0	100-100	100.0	100.0	100-100	100.0	-	-	-	-	-	-	100.0	100-100	100.0	-	-	-
MAR	POAAN	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	EAR	12-16	10-12	41-60	2	110-204	48.0	18-78	48.0	-	-	-	55.7	39.3-72.2	55.7	-	-	-	-	-	-	43.8	12.8-74.8	43.8	-	-	-	-	-	-

\* assessments considered valid since number of ears (for LOLMU) or number of plants (for APESV) was higher

\*\*in one trial on APESV, KCP 6.2-134 the rate of 2.1 L/ha was used instead of 2.6 L/ha.

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### Broad leaved weeds

**Table 3.2-62: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against broadleaved weeds – post-emergence application - Maritime EPPO zone**

EPPO zone	Target code	Crop code	Grouping	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Crop BBCH at ass.	Nb. trials	DA-A	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 2.6-2.7l/ha			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 4.4l/ha			Roxy 800 EC at 3l/ha			Roxy 800 EC at 4l/ha			Roxy 800 EC at 5l/ha			Naceto at 0.6l/ha		
										Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn
MAR	CAPBP	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	11-11	10-10	39-39	1	200-200	19.0	19-19	19.0	90.8	90.8-90.8	90.8	93.8	93.8-93.8	93.8	95.0	95-95	95.0	-	-	-	91.3	91.3-91.3	91.3	-	-	-	-	-	-
MAR	CENCY	YCERE	All at 3.5 L/ha	PLANT	10-13	0-13	39-85	10	170-249	20.0	5-71.5	11.0	37.3	0-99.3	24.4	49.2	0-100	27.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MAR	CENCY	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	11-13	12-13	65-85	3	170-245	32.8	10-71.5	17.0	12.9	0-31.3	7.5	15.0	0-25	20.0	24.2	0-47.5	25.0	-	-	-	-	-	18.8	0-37.5	18.8	-	-	-	
MAR	CENCY	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	10-13	0-12	39-75	6	202-249	15.0	5-35	7.0	39.7	0-99.3	24.4	57.8	0-100	64.0	-	-	-	-	49.8	0-99.8	45.0	-	-	-	-	-	-	-	
MAR	CENCY	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	12-12	12-12	75-75	1	236-236	12.0	12-12	12.0	96.3	96.3-96.3	96.3	100.0	100-100	100.0	100.0	100-100	100.0	100.0	100-100	100.0	-	-	-	-	-	-	-	-	
MAR	CHEAL	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	13-13	11-11	24-24	1	29*	7.8	7.8-7.8	7.8	87.5	87.5-87.5	87.5	90.0	90-90	90.0	92.5	92.5-92.5	92.5	-	-	-	-	90.0	90-90	90.0	82.5	82.5-82.5	82.5		
MAR	DESSO	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	12-12	10-10	39-39	1	193-193	5.0	5-5	5.0	100.0	100-100	100.0	100.0	100-100	100.0	100.0	100-100	100.0	-	-	-	-	100.0	100-100	100.0	100.0	100-100	100.0		
MAR	FUMOF	YCERE	All at 3.5 L/ha	PLANT	11-13	0-12	37-65	4	171-257	11.5	5-15	13.0	-	-	-	98.1	93-100	99.8	-	-	-	-	-	-	-	-	-	-	-	-	-		
MAR	FUMOF	YCERE	All at 4.4 L/ha		11-13	0-12	37-65	3	171-239	13.7	11-15	15.0	96.7	91-100	99.0	97.7	93-100	100.0	97.0	91-100	100.0	-	-	-	-	-	-	-	-	-	-		
MAR	FUMOF	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	11-12	0-10	37-39	2	171-183	13.0	11-15	13.0	95.0	91-99	95.0	96.5	93-100	96.5	95.5	91-100	95.5	-	-	-	-	98.4	96.8-100	98.4	99.5	99-100	99.5		
MAR	FUMOF	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	13-13	12-12	65-65	1	239-239	15.0	15-15	15.0	100.0	100-100	100.0	100.0	100-100	100.0	100.0	100-100	100.0	-	-	-	100.0	100-100	100.0	-	-	-	-	-	
MAR	FUMOF	YCERE	3.5 L vs. Naceto at 0.6 L/ha	PLANT	11-12	0-10	37-65	3	171-257	10.3	5-15	11.0	-	-	-	97.5	93-100	99.5	-	-	-	-	-	-	-	-	-	-	99.7	99-100	100.0		
MAR	GALAP	YCERE	All at 3.5 L/ha	PLANT	10-16	0-14	31-85	19	93-257	11.8	5-32.3	8.0	-	-	-	77.4	0-100	98.0	-	-	-	-	-	-	-	-	-	-	-	-	-		
MAR	GALAP	YCERE	All at 4.4 L/ha	PLANT	10-16	0-14	31-85	15	93-249	13.3	5-32.3	8.3	76.2	0-100	92.5	78.5	0-100	98.0	82.3	17.5-100	99.0	-	-	-	-	-	-	-	-	-	-		
MAR	GALAP	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	10-13	0-12	37-85	8	183-245	17.9	5-32.3	19.5	58.7	0-100	66.8	60.9	0-100	71.3	67.9	17.5-100	85.0	-	-	-	-	-	69.4	0-100	88.4	-	-	-	
MAR	GALAP	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	11-16	10-14	37-75	6	93-249	8.5	6-12	7.5	79.1	0-100	92.5	81.7	0-100	98.9	-	-	-	-	-	81.7	0-100	98.9	-	-	-	-	-		
MAR	IGERG	YCERE	All at 3.5 L/ha	PLANT	11-12	10-12	37-85	4	183-257	18.5	6-40	14.0	-	-	-	85.0	50-100	95.0	-	-	-	-	-	-	-	-	-	-	-	-	-		
MAR	IGERG	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	12-12	11-12	37-85	2	183-245	25.0	10-40	25.0	57.5	15-100	57.5	75.0	50-100	75.0	82.5	65-100	82.5	-	-	-	-	-	73.1	46.3-100	73.1	-	-	-	
MAR	IGERG	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	11-11	10-10	37-37	1	216-216	18.0	18-18	18.0	100.0	100-100	100.0	100.0	100-100	100.0	-	-	-	-	-	100.0	100-100	100.0	-	-	-	-	-		
MAR	IGERG	YCERE	3.5 L vs. Naceto at 0.6 L/ha	PLANT	12-12	11-11	65-65	1	257-257	6.0	6-6	6.0	-	-	-	90.0	90-90	90.0	-	-	-	-	-	-	-	-	-	-	100.0	100-100	100.0		
MAR	LAMPU	YCERE	All at 3.5 L/ha	PLANT	12-16	0-10	37-52	2	93-221	7.5	5-10	7.5	-	-	-	95.3	91.3-99.3	95.3	-	-	-	-	-	-	-	-	-	-	-	-	-		
MAR	LAMPU	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	16-16	10-10	37-37	1	93-93	10.0	10-10	10.0	83.8	83.8-83.8	83.8	91.3	91.3-91.3	91.3	97.5	97.5-97.5	97.5	-	-	-	85.0	85-85	85.0	-	-	-	-	-	

GLOB1913H

Part B – Section 3

Globachem NV/Central Zone

EPPO zone	Target code	Crop code	Grouping	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Crop BBCH at ass.	Nb. trials	DA-A	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 2.6-2.7/ha			PROSULFOCARB 900 EC at 3.5/ha			PROSULFOCARB 900 EC at 4.4/ha			Roxy 800 EC at 3/ha			Roxy 800 EC at 4/ha			Roxy 800 EC at 5/ha			Naceto at 0.6/ha		
										Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn
MAR	LAMPU	YCERE	3.5 L vs. Naceto at 0.6 L/ha	PLANT	12-12	0-0	52-52	1	221-221	5.0	5-5	5.0	-	-	-	99.3	99.3-99.3	99.3	-	-	-	-	-	-	-	-	-	-	-	-	99.5	99.5-99.5	99.5
MAR	MATCH	YCERE	All at 3.5 L/ha	PLANT	11-13	0-11	39-85	6	200-245	21.0	5-42	19.0	-	-	-	57.0	0-95	73.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MAR	MATCH	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	11-13	0-11	39-85	5	200-245	22.4	5-42	24.0	40.6	0-88.5	18.8	50.4	0-95	57.5	59.9	10-100	83.8	-	-	-	-	-	-	39.4	0-94.3	27.5	-	-	-
MAR	MATCH	YCERE	3.5 L vs. Naceto at 0.6 L/ha	PLANT	11-11	0-0	61-61	1	218-218	14.0	14-14	14.0	-	-	-	90.0	90-90	90.0	-	-	-	-	-	-	-	-	-	-	-	-	95.0	95-95	95.0
MAR	MATIN	YCERE	All at 3.5 L/ha	PLANT	10-13	0-12	37-75	16	142-257	24.6	5-96.5	15.5	-	-	-	57.8	0-100	58.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MAR	MATIN	YCERE	All at 4.4 L/ha	PLANT	10-13	0-12	37-75	10	142-239	28.5	5-96.5	15.0	45.1	0-100	47.5	56.5	0-100	55.0	61.3	0-100	65.0	-	-	-	-	-	-	-	-	-	-	-	-
MAR	MATIN	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	10-13	0-12	37-75	6	142-232	35.1	5-96.5	14.5	50.6	12.5-100	48.8	61.3	12.5-99	65.0	66.7	18.8-100	75.6	-	-	-	-	-	-	66.3	27.5-100	65.0	-	-	-
MAR	MATIN	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	10-13	0-12	37-75	7	197-239	20.1	5-40.5	16.0	41.1	0-100	47.5	49.3	0-100	50.0	-	-	-	-	-	-	42.1	0-100	55.0	-	-	-	-	-	-
MAR	MATIN	YCERE	3.5 L vs. Naceto at 0.6 L/ha	PLANT	10-12	10-11	37-69	3	202-257	14.3	6-19	18.0	-	-	-	70.8	32.5-100	80.0	-	-	-	-	-	-	-	-	-	-	-	-	97.1	91.3-100	100.0
MAR	MATIN	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	12-12	12-12	67-67	1	226-226	10.0	10-10	10.0	96.3	96.3-96.3	96.3	-	-	-	-	-	-	86.3	86.3-86.3	86.3	-	-	-	-	-	-	-	-	-
MAR	MYOAR	YCERE	All at 3.5 L/ha	PLANT	11-12	0-10	69-75	3	232-243	13.6	7-25.5	8.3	80.3	50-95.8	95.0	81.3	50-97.5	96.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MAR	MYOAR	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	11-11	0-0	75-75	1	232-232	25.5	25.5-25.5	25.5	95.8	95.8-95.8	95.8	97.5	97.5-97.5	97.5	98.0	98-98	98.0	-	-	-	-	-	-	97.3	97.3-97.3	97.3	-	-	-
MAR	MYOAR	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	11-12	10-10	69-71	2	233-243	7.6	7-8.3	7.6	72.5	50-95	72.5	73.1	50-96.3	73.1	-	-	-	-	-	-	71.8	45-98.5	71.8	-	-	-	-	-	-
MAR	PAPRH	YCERE	All at 3.5 L/ha	PLANT	10-13	0-12	31-79	16	156-257	21.9	5-99	9.0	-	-	-	64.2	0-100	83.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MAR	PAPRH	YCERE	All at 4.4 L/ha	PLANT	11-13	0-12	31-79	13	156-249	20.3	5-99	10.0	61.3	0-100	77.5	61.9	0-100	80.0	62.9	0-100	81.3	-	-	-	-	-	-	-	-	-	-	-	-
MAR	PAPRH	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	11-13	0-12	37-79	6	170-232	24.8	5-99	9.0	58.7	0-100	62.9	58.7	0-100	61.3	58.9	5-100	68.0	-	-	-	-	-	-	62.3	0-100	68.0	-	-	-
MAR	PAPRH	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	10-13	0-12	39-75	6	202-249	28.9	6-75.5	13.5	51.5	0-99	45.0	51.3	0-100	43.8	-	-	-	-	-	-	48.8	0-100	46.3	-	-	-	-	-	-
MAR	PAPRH	YCERE	3.5 L vs. Naceto at 0.6 L/ha	PLANT	12-12	7-11	37-69	4	183-257	5.3	5-6	5.0	-	-	-	96.6	87.5-100	99.5	-	-	-	-	-	-	-	-	-	-	-	-	99.9	99.8-100	100.0
MAR	PAPRH	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	11-12	0-12	31-75	3	156-236	13.4	6.3-23	11.0	86.7	77.5-98.8	83.8	-	-	-	-	-	-	85.0	73.8-100	81.3	-	-	-	-	-	-	-	-	-
MAR	SENVU	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	13-13	0-0	38-38	1	181-181	7.0	7-7	7.0	62.5	62.5-62.5	62.5	60.0	60-60	60.0	77.5	77.5-77.5	77.5	-	-	-	-	-	-	31.3	31.3-31.3	31.3	100.0	100-100	100.0
MAR	STEME	YCERE	All at 3.5 L/ha	PLANT	10-16	0-14	37-71	18	93-257	16.3	4*-83.8	11.6	-	-	-	80.4	9.5-100	97.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MAR	STEME	YCERE	All at 4.4 L/ha	PLANT	10-16	0-14	37-71	11	93-249	20.6	6-83.8	16.3	81.4	8.8-100	90.5	79.7	9.5-100	96.0	81.5	13.5-100	99.5	-	-	-	-	-	-	-	-	-	-	-	-
MAR	STEME	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	10-13	0-12	37-71	7	170-229	24.8	6-83.8	19.0	73.9	8.8-100	90.5	69.1	9.5-100	94.5	71.4	13.5-100	99.0	-	-	-	-	-	-	79.7	21.3-100	98.5	-	-	-
MAR	STEME	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	11-16	0-14	37-71	8	93-250	12.5	4-24.8	11.6	-	-	-	83.0	16.3-100	96.4	-	-	-	-	-	-	83.5	12.5-100	98.3	-	-	-	-	-	-
MAR	STEME	YCERE	3.5 L/ha vs. Naceto	PLANT	11-12	0-11	61-69	3	215-257	6.7	6-7	7.0	-	-	-	99.7	99-100	100.0	-	-	-	-	-	-	-	-	-	-	-	-	99.8	99.5-100	100.0
MAR	THLAR	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	11-13	10-14	39-65	2	200-239	29.0	8-50	29.0	100.0	100-100	100.0	100.0	100-100	100.0	100.0	100-100	100.0	-	-	-	100.0	100-100	100.0	-	-	-	-	-	-

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Part B – Section 3

Globachem NV/Central Zone

EPPO zone	Target code	Crop code	Grouping	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Crop BBCH at ass.	Nb. trials	DA-A	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 2.6-2.7/ha			PROSULFOCARB 900 EC at 3.5/ha			PROSULFOCARB 900 EC at 4.4/ha			Roxy 800 EC at 3/ha			Roxy 800 EC at 4/ha			Roxy 800 EC at 5/ha			Naceto at 0.6l/ha		
										Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn
MAR	1VERG	YCERE	All at 3.5 L/ha	PLANT	10-16	0-12	37-71	9	93-250	13.2	7-19.8	14.0	-	-	-	94.3	50-100	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MAR	1VERG	YCERE	All at 4.4 L/ha	PLANT	10-16	0-12	37-71	6	93-239	13.3	7-19.8	12.5	94.0	75-100	98.1	91.6	50-100	100.0	91.7	50-100	100.0	-	-	-	-	-	-	-	-	-	-	-	-
MAR	1VERG	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	10-13	0-11	39-71	3	179-229	12.2	7-19.8	9.8	91.7	75-100	100.0	83.3	50-100	100.0	83.3	50-100	100.0	-	-	-	-	-	-	91.7	75-100	100.0	-	-	-
MAR	1VERG	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	11-16	10-12	37-69	5	93-250	15.0	11-18	15.0	-	-	-	100.0	99.8-100	100.0	-	-	-	-	-	-	99.4	97.5-100	100.0	-	-	-	-	-	-
MAR	1VERG	YCERE	3.5 L/ha vs. Naceto	PLANT	12-12	0-0	52-52	1	221-221	7.0	7-7	7.0	-	-	-	99.3	99.3-99.3	99.3	-	-	-	-	-	-	-	-	-	-	-	-	99.5	99.5-99.5	99.5
MAR	VICCR	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	11-11	12-12	75-75	1	232-232	8.5	8.5-8.5	8.5	82.5	82.5-82.5	82.5	82.5	82.5-82.5	82.5	93.8	93.8-93.8	93.8	-	-	-	-	-	-	90.0	90-90	90.0	-	-	-
MAR	VIOAR	YCERE	All at 3.5 L/ha	PLANT	10-13	0-11	31-79	17	156-257	31.3	5-259.5	13.0	-	-	-	49.4	0-100	50.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MAR	VIOAR	YCERE	All at 4.4 L/ha	PLANT	10-13	0-11	31-79	9	156-239	15.6	5-44.5	13.0	38.6	0-98.8	31.3	48.8	15.5-100	50.0	52.5	20-100	50.0	-	-	-	-	-	-	-	-	-	-	-	-
MAR	VIOAR	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	11-12	0-11	37-79	6	170-200	15.9	5-44.5	11.0	-	-	-	37.0	15.5-80	28.1	39.6	20-90	28.1	-	-	-	-	-	-	32.9	0-80	28.8	-	-	-
MAR	VIOAR	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	10-12	0-11	39-79	9	197-251	45.8	9.5-259.5	17.0	-	-	-	48.4	0-85	50.0	-	-	-	-	-	-	37.4	0-90	42.5	-	-	-	-	-	-
MAR	VIOAR	YCERE	3.5 L/ha vs. Naceto	PLANT	12-12	11-11	65-65	1	257-257	13.0	13-13	13.0	-	-	-	82.5	82.5-82.5	82.5	-	-	-	-	-	-	-	-	-	-	-	-	100.0	100-100	100.0
MAR	VIOAR	YCERE	2.6 L/ha*** vs. Roxy at 3 L/ha	PLANT	11-11	11-11	31-31	1	156-156	11.0	11-11	11.0	98.8	98.8-98.8	98.8	100.0	100-100	100.0	100.0	100-100	100.0	100.0	100-100	100.0	-	-	-	-	-	-	-	-	-

\* Last assessment in the trial was done at 205 DA-A but the weed CHEAL disappeared early in the season. therefore the last suitable assesement for CHEAL is at 29 DA-A.

\*\*For STEME, 1 trial considered valid with 4 palnts/m2 since ground cover was 5.5%.

\*\*\*in one trial on VIOAR, KCP 6.2-134 the rate of 2.1 L/ha was used instead of 2.6 L/ha.

## Conclusion

A total of 41 trials were carried out in the Maritime EPPO Zone to evaluate the efficacy of GLOB1913H for the control of weeds on winter cereals (wheat, barley, triticale and rye). Those trials have been conducted during 4 seasons between 2018 and 2021 in the Czech Republic, Denmark, France, Germany, Sweden, United Kingdom, the Netherlands and the maritime part of Poland (3 trials in western part of Odra River).

Data demonstrated that the efficacy of GLOB1913H at the rates of 3.5 and 4.4 L/ha (this last one in support of the requested rate of 4 L/ha) was on average equivalent to the efficacy of standard products containing prosulfocarb in a formulation containing 800 g/L applied at a comparable amount of active substance.

In particular, against some weeds as e.g. loose silky bent (APESV), annual meadowgrass (POAAN), common fumitory (FUMOF), *Geranium* and *Veronica* species, GLOB1913H performed well at both rates, providing already a good control at the lowest requested rate.

In a few trials where the reference standard was Naceto, the overall control of GLOB1913H was slightly lower. This is expected since Naceto is a mixture of 2 different active substances and since prosulfocarb based products are often used in tank-mixtures in order to improve control and spectrum.

Generally, these results also confirm the results obtained from other EPPO climatic zones. Moreover, as the performance of GLOB1913H (900 g/L of prosulfocarb) is in general comparable with existing formulations based on 800 g/L of prosulfocarb, according to PP 1/307(2), extrapolation to the complete associated claims/uses for the authorized products e.g. Roxy 800 EC and the underlying supporting data can be claimed.

From the presented results it can be clearly concluded that several weeds commonly populating cereal fields are susceptible or highly susceptible to GLOB1913H applied at dose rates starting at 3.5 L/ha. As results are strongly linked to the weed species, reference is made to the tables below showing the susceptibility spectrum of the different weeds.

In some countries, standard products containing prosulfocarb in a formulation containing 800 g/L are authorized at ranges between 3 and 5 L/ha. Susceptibility spectrum for GLOB1913H at 2.6 L/ha is thus also shown below to better reflect local common practices.

Table 3.2-63 and Table 3.2-64 show respectively the overall mean efficacy results of GLOB1913H in 1 application of 3.5 and 4.4 L/ha (this last one in support of the requested rate of 4 L/ha) against grasses and broad leaved weeds. The overall susceptibility level of each weed at the proposed rates is also indicated.

Table 3.2-65 presents separately results from weed species that appeared in just one trial.

GLOB1913H

Part B – Section 3

Globachem NV/Central Zone

**Table 3.2-63: Overall efficacy and susceptibility level to GLOB1913H (Prosulfocarb 900 EC) on winter cereals against grasses- post-emergence application - Maritime EPPO zone**

EPPO zone	Target code	Crop code	Grouping	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Nb. Trials	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 2.6-2.7l/ha			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 CS at 4.4l/ha			Weighted mean at 3.5 L/ha (nb.trials)	Weighted mean at 4 L/ha (nb.trials)	Suscept. Level at 2.6 L/ha**	Suscept. Level at 3.5 L/ha**	Suscept. Level at 4 L/ha**,1
								Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn					
MAR	ALOMY	YCERE	All at 3.5 L/ha	PLANT	10-13	0-12	15	89.4	5-490	33.0	-	-	-	65.4	0-100	70.0	-	-	-	67.0 (16)	61.1 (9)	-	MT	MT
			All at 3.5 L/ha	EAR	10-13	0-12	16	134.4	6-490	74.8	-	-	-	68.5	24.8-100	73.7	-	-	-					
	APESV	YCERE	All at 3.5 L/ha	PLANT	11-13	10-13	14	28.4	5-149	13.5	-	-	-	96.6	84.3-100	99.6	-	-	-	96.2 (18)	96.1 (10)	-	HS	HS
			All at 4.4 L/ha	PLANT	11-13	10-13	10	34.3	5-149	11.5	-	-	-	97.2	86.3-100	99.8	97.1	78.8-100	100.0					
			All at 3.5 L/ha	EAR	10-13	0-13	18	46.0	3*-149	35.3	-	-	-	95.9	79.2-100	99.8	-	-	-					
			All at 4.4 L/ha	EAR	11-13	10-13	10	51.3	3*-149	38.9	-	-	-	96.5	79.2-100	100.0	95.1	57.8-100	100.0					
	IAVEG	YCERE	All	PLANT	11-11	10-10	1	157.0	157-157	157.0	0.0	0-0	0.0	0.0	0-0	0.0	7.5	7.5-7.5	7.5	28.6 (2)	37.0 (2)	T	T	T
			All	EAR	10-11	0-10	2	86.6	5.9-167.3	86.6	35.0	22.1-47.8	35.0	42.9	29.4-56.4	42.9	51.8	31.9-71.7	51.8					
	POAAN	YCERE	All at 3.5 L/ha	PLANT	11-16	0-12	3	19.3	12-28	18.0	-	-	-	70.1	32.5-99	78.8	-	-	-	70.3 (3)	99.5 (1)	MS	MS	HS
			All at 4.4 L/ha	PLANT	11-11	0-0	1	28.0	28-28	28.0	98.8	98.8-98.8	98.8	99.0	99-99	99.0	99.0	99-99	99.0					
			All at 3.5 L/ha	EAR	11-16	0-12	3	33.8	5.5-78	18.0	-	-	-	70.5	39.3-100	72.2	-	-	-					
			All at 4.4 L/ha	EAR	11-11	0-0	1	5.5	5.5-5.5	5.5	100.0	100-100	100.0	100.0	100-100	100.0	100.0	100-100	100.0					

\* assessment considered valid since number of plants (for APESV) was higher

\*\*in one trial on APESV, KCP 6.2-134 the rate of 2.1 L/ha was used instead of 2.6 L/ha.

\*\*T=Tolerant; MT=Moderately Tolerant; MS=Moderately Susceptible; S=Susceptible; HS=Highly Susceptible

1) It can be expected that GLOB1913H applied at a 4 L/ha will perform at least as good as 3.5 L/ha. When this was not the case, the susceptibility level at 3.5 L/ha was reported also for 4 L/ha since a higher number of trials was available for 3.5 L/ha and thus the average control is even more reliable. On the contrary, susceptibility at 2.6 L/ha was not considered superior to 3.5 L/ha when less data was available at the lower rate.

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**Table 3.2-64: Overall efficacy and susceptibility level to GLOB1913H (Prosulfocarb 900 EC) on winter cereals against broad leaved weeds - post-emergence application - Maritime EPPO zone**

EPPO zone	Target code	Crop code	Grouping	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Nb. Trials	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 2.6-2.7l/ha			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 CS at 4.4l/ha			Suscept. Level at 2.6 L/ha***	Suscept. Level at 3.5 L/ha***	Suscept. Level at 4 L/ha***, <sup>1</sup>
								Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn			
MAR	CENCY	YCERE	All at 3.5 L/ha	PLANT	10-13	0-13	10	20.0	5-71.5	11.0	37.3	0-99.3	24.4	49.2	0-100	27.5	-	-	-	T	T	T
			All at 4.4 L/ha	PLANT	11-13	12-13	3	32.8	10-71.5	17.0	12.9	0-31.3	7.5	15.0	0-25	20.0	24.2	0-47.5	25.0			
	FUMOF	YCERE	All at 3.5 L/ha	PLANT	11-13	0-12	4	11.5	5-15	13.0	-	-	-	98.1	93-100	99.8	-	-	-	HS	HS	HS
			All at 4.4 L/ha	PLANT	11-13	0-12	3	13.7	11-15	15.0	96.7	91-100	99.0	97.7	93-100	100.0	97.0	91-100	100.0			
	GALAP	YCERE	All at 3.5 L/ha	PLANT	10-16	0-14	19	11.8	5-32.3	8.0	-	-	-	77.4	0-100	98.0	-	-	-	MS	MS	MS
			All at 4.4 L/ha	PLANT	10-16	0-14	15	13.3	5-32.3	8.3	76.2	0-100	92.5	78.5	0-100	98.0	82.3	17.5-100	99.0			
	1GERG	YCERE	All at 3.5 L/ha	PLANT	11-12	10-12	4	18.5	6-40	14.0	-	-	-	85.0	50-100	95.0	-	-	-	MT	S	S
			All at 4.4 L/ha	PLANT	12-12	11-12	2	25.0	10-40	25.0	57.5	15-100	57.5	75.0	50-100	75.0	82.5	65-100	82.5			
	LAMPU	YCERE	All at 3.5 L/ha	PLANT	12-16	0-10	2	7.5	5-10	7.5	-	-	-	95.3	91.3-99.3	95.3	-	-	-	-	HS	HS
	MATCH	YCERE	All at 3.5 L/ha	PLANT	11-13	0-11	6	21.0	5-42	19.0	-	-	-	57.0	0-95	73.3	-	-	-	T	MT	MT
			All at 4.4 L/ha	PLANT	11-13	0-11	5	22.4	5-42	24.0	40.6	0-88.5	18.8	50.4	0-95	57.5	59.9	10-100	83.8			
	MATIN	YCERE	All at 3.5 L/ha	PLANT	10-13	0-12	16	24.6	5-96.5	15.5	-	-	-	57.8	0-100	58.8	-	-	-	T	MT	MT
			All at 4.4 L/ha	PLANT	10-13	0-12	10	28.5	5-96.5	15.0	45.1	0-100	47.5	56.5	0-100	55.0	61.3	0-100	65.0			
	MYOAR	YCERE	All at 3.5 L/ha	PLANT	11-12	0-10	3	13.6	7-25.5	8.3	80.3	50-95.8	95.0	81.3	50-97.5	96.3	-	-	-	MS	MS	HS
			All at 4.4 L/ha	PLANT	11-11	0-0	1	25.5	25.5-25.5	25.5	95.8	95.8-95.8	95.8	97.5	97.5-97.5	97.5	98.0	98-98	98.0			
	PAPRH	YCERE	All at 3.5 L/ha	PLANT	10-13	0-12	16	21.9	5-99	9.0	-	-	-	64.2	0-100	83.8	-	-	-	MT	MT	MT
			All at 4.4 L/ha	PLANT	11-13	0-12	13	20.3	5-99	10.0	61.3	0-100	77.5	61.9	0-100	80.0	62.9	0-100	81.3			
	SENVU	YCERE	All	PLANT	13-13	0-0	1	7.0	7-7	7.0	62.5	62.5-62.5	62.5	60.0	60-60	60.0	77.5	77.5-77.5	77.5	MT	MT	MS
	STEME	YCERE	All at 3.5 L/ha	PLANT	10-16	0-14	18	16.3	4*-83.8	11.6	-	-	-	80.4	9.5-100	97.0	-	-	-	MS	MS	MS

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EPPO zone	Target code	Crop code	Grouping	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Nb. Trials	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 2.6-2.7l/ha			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 CS at 4.4l/ha			Suscept. Level at 2.6 L/ha***	Suscept. Level at 3.5 L/ha***	Suscept. Level at 4 L/ha***, 1
								Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn			
			All at 4.4 L/ha	PLANT	10-16	0-14	11	20.6	6-83.8	16.3	81.4	8.8-100	90.5	79.7	9.5-100	96.0	81.5	13.5-100	99.5			
	THLAR	YCERE	All	PLANT	11-13	10-14	2	29.0	8-50	29.0	100.0	100-100	100.0	100.0	100-100	100.0	100.0	100-100	100.0	HS	HS	HS
	IVERG	YCERE	All at 3.5 L/ha	PLANT	10-16	0-12	9	13.2	7-19.8	14.0	-	-	-	94.3	50-100	100.0	-	-	-	S	S	S
			All at 4.4 L/ha	PLANT	10-16	0-12	6	13.3	7-19.8	12.5	94.0	75-100	98.1	91.6	50-100	100.0	91.7	50-100	100.0			
	VIOAR	YCERE	All at 3.5 L/ha	PLANT	10-13	0-11	17	31.3	5-259.5	13.0	-	-	-	49.4	0-100	50.0	-	-	-	T	T	MT
			All at 4.4 L/ha	PLANT	10-13	0-11	9	15.6	5-44.5	13.0	38.6**	0-98.8	31.3	48.8	15.5-100	50.0	52.5	20-100	50.0			

\*For STEME, 1 trial considered valid with 4 palnts/m2 since ground cover was 5.5%.

\*\*in one trial on VIOAR, KCP 6.2-134 the rate of 2.1 L/ha was used instead of 2.6 L/ha.

\*\*\*T=Tolerant; MT=Moderately Tolerant; MS=Moderately Susceptible; S=Susceptible; HS=Highly Susceptible

1) It can be expected that GLOB1913H applied at a 4 L/ha will perform at least as good as 3.5 L/ha. When this was not the case, the susceptibility level at 3.5 L/ha was reported also for 4 L/ha since a higher number of trials was available for 3.5 L/ha and thus the average control is even more reliable.

**Table 3.2-65: Overall efficacy and susceptibility level to GLOB1913H (Prosulfocarb 900 EC) on winter cereals against weeds which occurred in only one trial - post-emergence application - Maritime EPPO zone**

EPPO zone	Target code	Crop code	Grouping	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Nb. Trials	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 2.6-2.7l/ha			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 CS at 4.4l/ha			Suscept. Level at 2.6 L/ha***	Suscept. Level at 3.5 L/ha***	Suscept. Level at 4 L/ha***;
								Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn			
Grasses																						
MAR	LOLMU	YCERE	All	PLANT	11-11	0-0	1	4.0*	4-4	4.0	70.0	70-70	70.0	82.5	82.5-82.5	82.5	90.0	90-90	90.0	MS	MS	HS
				EAR	11-11	0-0	1	8.0	8-8	8.0	87.1	87.1-87.1	87.1	85.7	85.7-85.7	85.7	100.0	100-100	100.0			
Broadleaved																						
MAR	CAPBP	YCERE	All	PLANT	11-11	10-10	1	19.0	19-19	19.0	90.8	90.8-90.8	90.8	93.8	93.8-93.8	93.8	95.0	95-95	95.0	S	S	HS
	CHEAL**	YCERE	All	PLANT	13-13	11-11	1	7.8	7.8-7.8	7.8	87.5	87.5-87.5	87.5	90.0	90-90	90.0	92.5	92.5-92.5	92.5	S	S	S

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	DESSO	YCERE	All	PLANT	12-12	10-10	1	5.0	5-5	5.0	100.0	100-100	100.0	100.0	100-100	100.0	100.0	100-100	100.0	HS	HS	HS
	VICCR	YCERE	All	PLANT	11-11	12-12	1	8.5	8.5-8.5	8.5	82.5	82.5-82.5	82.5	82.5	82.5-82.5	82.5	93.8	93.8-93.8	93.8	MS	MS	S

\* assessment considered valid since number of ears was higher

\*\* Last assessment in the trial was done at 205 DA-A but the weed CHEAL disappeared early in the season. therefore the last suitable assesement for CHEAL is at 29 DA-A.

\*\*\*T=Tolerant; MT=Moderately Tolerant; MS=Moderately Susceptible; S=Susceptible; HS=Highly Susceptible

1) It can be expected that GLOB1913H applied at a 4 L/ha will perform at least as good as 3.5 L/ha. When this was not the case, the susceptibility level at 3.5 L/ha was reported also for 4 L/ha.

### North-East EPPO Zone

A total of 14 trials were carried out in the North-East EPPO Zone to evaluate the efficacy of GLOB1913H for the control of weeds on winter cereals (soft wheat, barley, triticale and rye) in post-emergence application. Those trials have been conducted during 4 seasons between 2018 and 2021 in the Poland and Latvia. Those were combined with the results of trials conducted in the maritime part of Poland (3 trials in western part of Odra River) as well as with German and Czech trials (22 trials) since these are neighbouring countries and considered as valid to Poland. The combined results from 39 trials are thus shown in the tables below.

As a lower dose rate was included in most of the trials, these results are presented in detail under point 3.2.3 Efficacy tests but summarized and also discussed above under point 3.2.2 Minimum effective dose tests.

Roxy/Boxer 800 EC (prosulfocarb 800 g/L) was included in the majority of trials as a uniform reference, applied at authorized label rates. In a few trials where a prosulfocarb 800 g/L was not available for comparison or not authorized in the country, Naceto (diflufenican + flufenacet) was used at 0.6 L/ha. Table headers report the most common product name/rate applied. Exceptions are specified in the detailed table.

The percentage of visual control at the final spring assessment containing enough weeds per square meters were summarized below for each weed. In case of grass weeds, also the counting of ears was in general performed. The final spring assessment, besides having a higher weed pressure compared to earlier assessments, also provides a long term view of the effects of the herbicide applied just after emergence. In very few cases, when the above criteria could not be met, an earlier assessment was chosen. The minimum population of 5 plants/m<sup>2</sup> was considered for validation of the trial and assessment.

Data are grouped by weed species and summarized at the end of each table by an orthogonal comparison of the control achieved by GLOB1913H to the one achieved by the reference products containing prosulfocarb at the same amount of active substance applied. If the same subset of trials had tested other rates of GLOB1913H, means are presented also for those rates. An additional comparison is provided across all trials and dose rates of GLOB1913H (grouping “All”). Some species were grouped according to taxonomic and biological similarity (i.e. *Geranium* and *Veronica* species, EPPO codes 1GERG, 1VERG...). In exceptional cases, results at a different dose were included in the averaged values, i.e. 1.3 L in the range 1.6-1.7 (1 trial, KCP 6.2-96) or 2.1 L in the range 2.6-2.7 L/ha (1 trial, KCP 6.2-135). Being results achieved at a lower rate, it is reliable to consider that it will work as good as higher rates of the range.

The color scheme used to classify the levels of weed control are described above in section 3.2.3 Efficacy tests (KCP 6.2).

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**Results****Grass weeds****Table 3.2-66: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against grasses – post-emergence application - North-East EPPO Zone**

Means valid for Poland (when available, CZ and DE trials included in mean calculation)

Means valid for Poland (when available, CZ and DE trials included in mean calculation)																																							
EPPO zone	Target code	Crop code	Grouping	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Crop BBCH at ass.	Nb. trials	DA-A	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 1.6-1.7 L/ha			PROSULFOCARB 900 EC at 2.6-2.7L/ha			PROSULFOCARB 900 EC at 3.5L/ha			PROSULFOCARB 900 EC at 4.4L/ha			Boxer 800 EC at 3L/ha			Roxy 800 EC at 4L/ha			Roxy 800 EC at 5L/ha			Naceto at 0.6L/ha					
										Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn
NE (+CZ,DE)	ALOMY	YCERE	All at 3.5 L/ha	PLANT	10-13	0-12	37-75	13	177-257	58.1	5-225	31.8	-	-	-	-	-	-	67.7	28.8-100	78.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NE (+CZ,DE)	ALOMY	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	11-13	0-10	39-75	5	177-244	44.2	9.8-95	31.8	-	-	-	52.0	21.3-93.5	30.0	56.4	30-95	37.5	59.8	30-99	42.5	-	-	-	-	-	-	61.0	15-95	60.0	-	-	-	-	-	
NE (+CZ,DE)	ALOMY	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	12-12	11-12	39-73	4	197-232	72.6	13-225	26.2	-	-	-	61.7	27.5-83.8	67.8	70.0	28.8-90	80.5	-	-	-	-	-	-	-	70.5	35-92.5	77.2	-	-	-	-	-	-	-	
NE (+CZ,DE)	ALOMY	YCERE	3.5 L vs. Naceto at 0.6 L/ha	PLANT	10-12	10-12	37-69	4	202-257	61.0	5-120	59.5	-	-	-	-	-	-	79.7	57.5-100	80.6	-	-	-	-	-	-	-	-	-	-	-	-	94.6	83.8-100	97.4	-	-	
NE (+CZ,DE)	ALOMY	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	13-13	11-11	71-71	1	213-213	8.5	8.5-8.5	8.5	73.8	73.8-73.8	73.8	84.5	84.5-84.5	84.5	-	-	-	-	-	-	87.0	87-87	87.0	-	-	-	-	-	-	-	-	-	-		
NE (+CZ,DE)	ALOMY	YCERE	All at 3.5 L/ha	EAR	10-13	0-12	37-75	12	177-257	140.1	6-322.3	131.8	-	-	-	-	-	-	67.9	30.9-100	76.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NE (+CZ,DE)	ALOMY	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	EAR	11-13	0-10	39-75	6	177-244	108.6	15-265	62.8	-	-	-	63.8	21.5-95.2	71.8	67.1	30.9-95.1	76.6	72.6	29.3-98.4	89.1	-	-	-	-	-	-	65.9	14.4-96.8	75.4	-	-	-	-	-	
NE (+CZ,DE)	ALOMY	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	EAR	12-12	11-12	39-69	2	197-232	273.6	225-322.3	273.6	79.4	79.4-79.4	79.4	56.7	28.6-84.8	56.7	61.8	32.6-91.1	61.8	-	-	-	-	-	-	62.1	30.7-93.5	62.1	-	-	-	-	-	-	-		
NE (+CZ,DE)	ALOMY	YCERE	3.5 L vs. Naceto at 0.6 L/ha	EAR	10-12	10-12	37-69	4	202-257	120.6	6-298	89.3	-	-	-	-	-	-	72.0	46.9-100	70.7	-	-	-	-	-	-	-	-	-	-	92.3	78.2-100	95.5	-	-	-		
NE (+CZ,DE)	ALOMY	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	EAR	13-13	11-11	71-71	1	213-213	15.3	15.3-15.3	15.3	75.4	75.4-75.4	75.4	88.6	88.6-88.6	88.6	-	-	-	-	-	-	84.2	84.2-84.2	84.2	-	-	-	-	-	-	-	-	-	-		
NE (+CZ,DE)	APESV	YCERE	All at 4.4 L/ha	PLANT	11-21	10-13	65-85	13	197-249	30.0	5-149	15.0	-	-	-	96.4	80-100	100	98.1	92.5-100	100	99.0	93.8-100	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NE (+CZ,DE)	APESV	YCERE	All at 3.5 L/ha	PLANT	11-21	10-13	37-85	17	197-257	27.3	5-149	15.0	-	-	-	-	-	-	97.3	87.5-100	99.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NE (+CZ,DE)	APESV	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	11-12	10-12	71-85	4	197-245	48.6	6-149	19.7	-	-	-	96.3	86.3-100	99.5	97.8	92.5-100	99.4	98.2	93.8-100	99.5	-	-	-	-	-	-	98.8	96-100	99.5	-	-	-	-	-	
NE (+CZ,DE)	APESV	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	11-13	10-12	37-77	8	219-249	25.5	5-98	15.5	-	-	-	95.2	80-100	97.7	96.5	87.5-100	98.0	-	-	-	-	-	-	98.9	95-100	100	-	-	-	-	-	-	-		
NE (+CZ,DE)	APESV	YCERE	3.5 L vs. Naceto at 0.6 L/ha	PLANT	12-12	10-10	65-65	1	257-257	12.0	12-12	12.0	-	-	-	-	-	-	99.8	99.8-99.8	99.8	-	-	-	-	-	-	-	-	-	-	-	-	100	100-100	100	-	-	
NE (+CZ,DE)	APESV	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	11-21	10-13	65-83	6	218-245	18.7	5-31.5	17.0	-	-	-	97.3	92.5-100	98.1	-	-	-	-	-	-	99.0	93.8-100	100	-	-	-	-	-	-	-	-	-	-		
NE (+CZ,DE)	APESV	YCERE	All at 4.4 L/ha	EAR	11-21	10-12	65-85	11	197-249	37.8	3*-149	17.0	-	-	-	96.3	85.4-100	100	98.3	92.4-100	100	99.4	93.8-100	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NE (+CZ,DE)	APESV	YCERE	All at 3.5 L/ha	EAR	10-21	0-12	65-85	16	197-257	40.5	3*-149	18.1	-	-	-	-	-	-	97.8	92.4-100	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NE (+CZ,DE)	APESV	YCERE	4.4 L/ha vs. Roxyv at 5 L/ha	EAR	11-12	10-12	71-85	4	197-245	62.0	6-149	46.5	-	-	-	96.6	86.6-100	100	98.1	92.4-100	100	98.4	93.8-100	100	-	-	-	-	-	-	98.9	95.7-100	100	-	-	-	-	-	

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EPPO zone	Target code	Crop code	Grouping	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Crop BBCH at ass.	Nb. trials	DA-A	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 1.6-1.7 L/ha			PROSULFOCARB 900 EC at 2.6-2.7L/ha			PROSULFOCARB 900 EC at 3.5L/ha			PROSULFOCARB 900 EC at 4.4L/ha			Boxer 800 EC at 3L/ha			Roxy 800 EC at 4L/ha			Roxy 800 EC at 5L/ha			Naceto at 0.6L/ha					
										Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn
NE (+CZ,DE)	APESV	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	EAR	10-13	0-12	65-77	8	219-249	39.4	3*-131	24.6	-	-	-	94.6	85.4-100	97.7	97.3	92.7-100	99.3	-	-	-	-	-	-	99.5	96.7-100	100	-	-	-	-	-	-	-	-	
NE (+CZ,DE)	APESV	YCERE	3.5 L vs. Naceto at 0.6 L/ha	EAR	12-12	10-10	65-65	1	257-257	45.5	45.5-45.5	45.5	-	-	-	-	-	-	100	100-100	100	-	-	-	-	-	-	-	-	-	-	-	-	100	100-100	100	-	-	-
NE (+CZ,DE)	APESV	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	EAR	11-21	10-12	65-83	7	218-245	41.1	7-172	17.0	-	-	-	96.9	90.2-100	98.2	-	-	-	-	-	-	99.5	96.6-100	100	-	-	-	-	-	-	-	-	-	-		
NE (+CZ,DE)	POAAN	YCERE	All at 2.6 L/ha	PLANT	11-13	0-11	37-75	6	194-232	13.3	5-28	10.6	-	-	-	93.5	73.8-100	99.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NE (+CZ,DE)	POAAN	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	11-11	0-0	75-75	1	232-232	28.0	28-28	28.0	-	-	-	98.8	98.8-98.8	98.8	99.0	99-99	99.0	99.0	99-99	99.0	-	-	-	-	-	99.0	99-99	99.0	-	-	-	-	-	-	
NE (+CZ,DE)	POAAN	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	12-12	0-0	73-73	1	220-220	7.8	7.8-7.8	7.8	-	-	-	99.5	99.5-99.5	99.5	100	100-100	100	-	-	-	-	-	99.8	99.8-99.8	99.8	-	-	-	-	-	-	-	-	-	
NE (+CZ,DE)	POAAN	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	11-13	0-11	37-71	4	194-222	11.0	5-18	10.6	86.9	66.3-100	90.6	90.7	73.8-100	94.5	-	-	-	-	-	-	90.3	75-100	93.0	-	-	-	-	-	-	-	-	-	-		
NE (+CZ,DE)	POAAN	YCERE	All at 2.6 L/ha	EAR	11-12	0-11	37-75	3	201-232	22.8	5.5-38.8	24.0	-	-	-	90.8	72.3-100	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NE (+CZ,DE)	POAAN	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	EAR	11-11	0-0	75-75	1	232-232	5.5	5.5-5.5	5.5	-	-	-	100	100-100	100	100	100-100	100	100	100-100	100	-	-	-	-	-	100	100-100	100	-	-	-	-	-	-	-
NE (+CZ,DE)	POAAN	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	EAR	11-12	10-11	37-69	2	201-222	31.4	24-38.8	31.4	82.5	65-100	82.5	86.1	72.3-100	86.1	-	-	-	-	-	-	87.2	74.5-100	87.2	-	-	-	-	-	-	-	-	-	-	-	

\*For APESV, 1 trial considered valid with 3 ears/m2 since number of plants was 5/m2

GLOB1913H  
Part B – Section 3  
Globachem NV/Central Zone

### Broad leaved weeds

**Table 3.2-67: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against broadleaved weeds – post-emergence application - North-East EPPO Zone**

Means valid for Poland (when available, CZ and DE trials included in mean calculation)

EPPO zone	Target code	Crop code	Grouping	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Crop BBCH at ass.	Nb. trials	DA-A	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 1.6-1.7 L/ha			PROSULFOCARB 900 EC at 2.6-2.7L/ha			PROSULFOCARB 900 EC at 3.5L/ha			PROSULFOCARB 900 EC at 4.4L/ha			Boxer 800 EC at 3L/ha			Roxy 800 EC at 4L/ha			Roxy 800 EC at 5L/ha			Naceto at 0.6L/ha			
										Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean
NE (+CZ,DE)	CAPBP	YCERE	All at 4.4 L/ha	PLANT	11-21	10-15	39-65	2	200-218	13.5	8-19	13.5	-	-	-	79.2	67.5-90.8	79.2	80.0	66.3-93.8	80.0	88.1	81.3-95	88.1	-	-	-	-	-	-	-	-	-	-	-	-	-
NE (+CZ,DE)	CAPBP	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	11-11	10-10	39-39	1	200-200	19.0	19-19	19.0	-	-	-	90.8	90.8-90.8	90.8	93.8	93.8-93.8	93.8	95.0	95-95	95.0	-	-	-	91.3	91.3-91.3	91.3	-	-	-	-	-	-	-
NE (+CZ,DE)	CAPBP	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	21-21	15-15	65-65	1	218-218	8.0	8-8	8.0	-	-	-	67.5	67.5-67.5	67.5	66.3	66.3-66.3	66.3	81.3	81.3-81.3	81.3	62.5	62.5-62.5	62.5	-	-	-	-	-	-	-	-	-	-
NE (+CZ,DE)	CENCY	YCERE	All at 4.4 L/ha	PLANT	11-14	10-13	39-85	10	192-249	17.7	5-71.5	8.5	-	-	-	34.6	0-99.3	15.0	49.2	0-100	30.6	59.8	0-100	48.8	-	-	-	-	-	-	-	-	-	-	-	-	-
NE (+CZ,DE)	CENCY	YCERE	All at 3.5 L/ha	PLANT	10-14	0-13	37-85	12	192-249	18.4	5-71.5	10.5	-	-	-	30.8	0-99.3	13.2	42.9	0-100	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NE (+CZ,DE)	CENCY	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	11-12	12-12	75-85	2	232-245	44.3	17-71.5	44.3	-	-	-	3.8	0-7.5	3.8	10.0	0-20	10.0	23.8	0-47.5	23.8	-	-	-	-	-	-	9.4	0-18.8	9.4	-	-	-	-
NE (+CZ,DE)	CENCY	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	10-13	0-12	37-75	7	202-249	14.8	5-35	8.0	-	-	-	34.7	0-99.3	18.8	50.2	0-100	30.0	-	-	-	-	-	-	43.8	0-99.8	35.0	-	-	-	-	-	-	
NE (+CZ,DE)	CENCY	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	12-14	12-13	39-75	3	192-236	9.7	8-12	9.0	-	-	-	39.6	0-96.3	22.5	47.9	12.5-100	31.3	53.3	25-100	35.0	46.7	18.8-100	21.3	-	-	-	-	-	-	-	-	-	
NE (+CZ,DE)	CHEAL	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	13-13	11-11	24-24	1	29*	7.8	7.8-7.8	7.8	-	-	-	87.5	87.5-87.5	87.5	90.0	90-90	90.0	92.5	92.5-92.5	92.5	-	-	-	-	-	90.0	90-90	90.0	82.5	82.5-82.5	82.5	-	
NE (+CZ,DE)	DESSO	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	12-12	10-10	39-39	1	193-193	5.0	5-5	5.0	-	-	-	100	100-100	100	100	100-100	100	100	100-100	100	-	-	-	-	-	100	100-100	100	100	100-100	100	-	
NE (+CZ,DE)	FUMOF	YCERE	All at 4.4 L/ha	PLANT	11-13	0-12	37-65	3	171-239	13.7	11-15	15.0	-	-	-	96.7	91-100	99.0	97.7	93-100	100	97.0	91-100	100	-	-	-	-	-	-	-	-	-	-	-	-	
NE (+CZ,DE)	FUMOF	YCERE	All at 3.5 L/ha	PLANT	11-13	0-12	37-69	5	171-257	12.8	5-17.8	15.0	-	-	-	-	-	-	98.5	93-100	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NE (+CZ,DE)	FUMOF	YCERE	All at 2.6 L/ha	PLANT	11-13	0-12	37-71	5	171-239	13.2	7.3-17.8	15.0	-	-	-	97.0	91-100	99.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NE (+CZ,DE)	FUMOF	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	11-12	0-10	37-39	2	171-183	13.0	11-15	13.0	-	-	-	95.0	91-99	95.0	96.5	93-100	96.5	95.5	91-100	95.5	-	-	-	-	-	98.4	96.8-100	98.4	-	-	-	-	-
NE (+CZ,DE)	FUMOF	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	12-13	12-12	65-69	2	232-239	16.4	15-17.8	16.4	-	-	-	100	100-100	100	100	100-100	100	-	-	-	-	-	100	100-100	100	-	-	-	-	-	-	-	
NE (+CZ,DE)	FUMOF	YCERE	3.5 L vs. Naceto at 0.6 L/ha	PLANT	12-12	10-10	65-65	1	257-257	5.0	5-5	5.0	-	-	-	-	-	-	99.5	99.5-99.5	99.5	-	-	-	-	-	-	-	-	-	-	100	100-100	100	-	-	
NE (+CZ,DE)	FUMOF	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	13-13	10-10	71-71	1	213-213	7.3	7.3-7.3	7.3	70.0	70-70	70.0	95.0	95-95	95.0	-	-	-	-	-	95.0	95-95	95.0	-	-	-	-	-	-	-	-	-	-	
NE (+CZ,DE)	GALAP	YCERE	All at 4.4 L/ha	PLANT	11-13	0-12	31-85	14	156-249	12.1	5-32.3	7.5	-	-	-	76.3	0-100	92.5	79.1	0-100	97.8	82.8	17.5-100	99.5	-	-	-	-	-	-	-	-	-	-	-	-	-
NE (+CZ,DE)	GALAP	YCERE	All at 3.5 L/ha	PLANT	11-13	0-12	31-85	19	156-259	10.9	5-32.3	7.0	-	-	-	-	-	-	77.7	0-100	97.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NE (+CZ,DE)	GALAP	YCERE	All at 2.6 L/ha	PLANT	11-13	0-32	31-85	22	150-259	11.7	5-32.3	7.8	-	-	-	77.0	0-100	91.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NE (+CZ,DE)	GALAP	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	11-13	0-12	37-85	7	183-245	17.2	5-32.3	18.3	-	-	-	60.3	0-100	86.0	62.1	0-100	90.0	66.9	17.5-100	95.0	-	-	-	-	-	68.1	0-100	98.0	-	-	-	-	-
NE (+CZ,DE)	GALAP	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	11-13	10-12	39-75	6	197-259	8.6	6-12.4	7.5	-	-	-	73.5	0-99.8	91.3	77.3	0-100	95.3	-	-	-	-	-	77.1	0-100	95.3	-	-	-	-	-	-	-	

## Globachem NV/Central Zone

EPPO zone	Target code	Crop code	Grouping	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Crop BBCH at ass.	Nb. trials	DA-A	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 1.6-1.7 L/ha			PROSULFOCARB 900 EC at 2.6-2.7/L/ha			PROSULFOCARB 900 EC at 3.5/L/ha			PROSULFOCARB 900 EC at 4.4/l/ha			Boxer 800 EC at 3l/ha			Roxy 800 EC at 4l/ha			Roxy 800 EC at 5l/ha			Naceto at 0.6l/ha			
										Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean
NE (+CZ,DE)	GALAP	YCERE	3.5 L vs. Naceto at 0.6 L/ha	PLANT	12-12	11-11	52-69	3	215-257	6.3	5-9	5.0	-	-	-	-	-	-	98.0	95-99.8	99.3	-	-	-	-	-	-	-	-	-	-	-	-	99.8	99.5-100	100	
NE (+CZ,DE)	GALAP	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	11-13	0-32	31-83	9	150-245	9.6	5-23	7.0	-	-	-	92.3	72-100	98.3	-	-	-	-	-	95.8	87-100	96.3	-	-	-	-	-	-	-	-	-		
NE (+CZ,DE)	I GERG	YCERE	All at 3.5 L/ha	PLANT	11-12	10-12	37-85	5	183-257	16.6	6-40	10.0	-	-	-	-	-	-	88.0	50-100	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
NE (+CZ,DE)	I GERG	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	12-12	11-12	37-85	2	183-245	25.0	10-40	25.0	-	-	-	-	-	-	-	-	-	82.5	65-100	82.5	-	-	-	-	-	-	-	73.1	46.3-100	73.1	-	-	-
NE (+CZ,DE)	I GERG	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	11-12	10-12	37-37	2	207-216	13.5	9-18	13.5	-	-	-	97.5	95-100	97.5	100	100-100	100	-	-	-	-	-	98.8	97.5-100	98.8	-	-	-	-	-	-		
NE (+CZ,DE)	I GERG	YCERE	3.5 L vs. Naceto at 0.6 L/ha	PLANT	12-12	11-11	65-65	1	257-257	6.0	6-6	6.0	-	-	-	-	-	-	90.0	90-90	90.0	-	-	-	-	-	-	-	-	-	-	-	100	100-100	100		
NE (+CZ,DE)	LAMPU	YCERE	All at 3.5 L/ha	PLANT	11-21	0-13	37-65	3	218-232	16.0	5-33	10.0	-	-	-	-	-	-	90.6	85-99.3	87.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
NE (+CZ,DE)	LAMPU	YCERE	All at 2.6 L/ha	PLANT	11-21	0-13	37-67	3	150-232	16.0	5-33	10.0	-	-	-	87.9	80-100	83.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
NE (+CZ,DE)	LAMPU	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	11-11	10-10	37-37	1	232-232	33.0	33-33	33.0	-	-	-	80.0	80-80	80.0	85.0	85-85	85.0	-	-	-	-	-	76.3	76.3-76.3	76.3	-	-	-	-	-	-		
NE (+CZ,DE)	LAMPU	YCERE	3.5 L vs. Naceto at 0.6 L/ha	PLANT	12-12	0-0	52-52	1	221-221	5.0	5-5	5.0	-	-	-	-	-	-	99.3	99.3-99.3	99.3	-	-	-	-	-	-	-	-	-	-	-	99.5	99.5-99.5	99.5		
NE (+CZ,DE)	LAMPU	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	11-21	0-13	65-67	2	150-218	7.5	5-10	7.5	-	-	-	91.9	83.8-100	91.9	-	-	-	-	-	90.0	80-100	90.0	-	-	-	-	-	-	-	-	-		
NE (+CZ,DE)	MATCH	YCERE	All at 4.4 L/ha	PLANT	11-13	0-11	39-85	5	200-245	22.4	5-42	24.0	-	-	-	40.6	0-88.5	18.8	50.4	0-95	57.5	59.9	10-100	83.8	-	-	-	-	-	-	39.4	0-94.3	27.5	-	-	-	
NE (+CZ,DE)	MATIN	YCERE	All at 4.4 L/ha	PLANT	11-14	0-13	37-75	8	183-239	24.6	5-96.5	14.5	-	-	-	49.5	0-100	48.8	61.0	0-100	60.6	65.5	0-100	65.0	-	-	-	-	-	-	-	-	-	-	-		
NE (+CZ,DE)	MATIN	YCERE	All at 3.5 L/ha	PLANT	10-14	0-13	37-75	15	183-257	22.1	5-96.5	16.0	-	-	-	-	-	-	56.9	0-100	60.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
NE (+CZ,DE)	MATIN	YCERE	All at 2.6 L/ha	PLANT	10-14	0-13	37-83	18	150-245	19.4	5-96.5	12.0	-	-	-	51.2	0-100	57.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
NE (+CZ,DE)	MATIN	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	11-12	6-12	37-75	3	183-232	38.5	5-96.5	14.0	-	-	-	60.4	31.3-100	50.0	76.3	60-99	70.0	83.8	70-100	81.3	-	-	-	-	-	-	76.7	60-100	70.0	-	-	-	
NE (+CZ,DE)	MATIN	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	10-13	0-12	37-75	8	197-239	20.8	5-40.5	18.0	-	-	-	36.6	0-100	26.3	43.8	0-100	48.8	-	-	-	-	-	39.4	0-100	37.5	-	-	-	-	-	-		
NE (+CZ,DE)	MATIN	YCERE	3.5 L vs. Naceto at 0.6 L/ha	PLANT	10-12	10-11	37-69	3	202-257	14.3	6-19	18.0	-	-	-	-	-	-	70.8	32.5-100	80.0	-	-	-	-	-	-	-	-	-	-	-	97.1	91.3-100	100		
NE (+CZ,DE)	MATIN	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	11-14	0-13	37-83	7	150-245	9.5	5-23.5	7.0	-	-	-	63.9	5-96.3	67.5	-	-	-	-	-	63.1	12.5-86.3	67.5	-	-	-	-	-	-	-	-	-		
NE (+CZ,DE)	MYOAR	YCERE	All at 4.4 L/ha	PLANT	11-11	0-10	71-75	2	232-233	16.3	7-25.5	16.3	-	-	-	95.4	95-95.8	95.4	96.9	96.3-97.5	96.9	98.0	98-98	98.0	-	-	-	-	-	-	-	-	-	-	-		
NE (+CZ,DE)	MYOAR	YCERE	All at 2.6 L/ha	PLANT	11-13	0-11	71-75	3	213-233	13.3	7-25.5	7.3	-	-	-	94.4	92.5-95.8	95.0	95.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
NE (+CZ,DE)	MYOAR	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	11-11	0-0	75-75	1	232-232	25.5	25.5-25.5	25.5	-	-	-	95.8	95.8-95.8	95.8	97.5	97.5-97.5	97.5	98.0	98-98	98.0	-	-	-	-	-	-	97.3	97.3-97.3	97.3	-	-	-	
NE (+CZ,DE)	MYOAR	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	11-11	10-10	71-71	1	233-233	7.0	7-7	7.0	-	-	-	95.0	95-95	95.0	96.3	96.3-96.3	96.3	98.0	98-98	98.0	-	-	-	98.5	98.5-98.5	98.5	-	-	-	-	-		
NE (+CZ,DE)	MYOAR	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	13-13	11-11	71-71	1	213-213	7.3	7.3-7.3	7.3	86.0	86-86	86.0	92.5	92.5-92.5	92.5	-	-	-	-	-	-	87.0	87-87	87.0	-	-	-	-	-	-	-			
NE (+CZ,DE)	PAPRH	YCERE	All at 4.4 L/ha	PLANT	11-14	0-13	31-75	12	156-249	20.7	5-99	8.7	-	-	-	69.3	0-100	83.8	71.4	0-100	85.6	73.6	0-100	91.2	-	-	-	-	-	-	-	-	-	-	-		
NE (+CZ,DE)	PAPRH	YCERE	All at 3.5 L/ha	PLANT	10-14	0-13	31-77	20	156-259	20.0	5-99	8.0	-	-	-	-	-	-	65.4	0-100	74.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

## Globachem NV/Central Zone

EPPO zone	Target code	Crop code	Grouping	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Crop BBCH at ass.	Nb. trials	DA-A	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 1.6-1.7 L/ha			PROSULFOCARB 900 EC at 2.6-2.7/ha			PROSULFOCARB 900 EC at 3.5/ha			PROSULFOCARB 900 EC at 4.4/ha			Boxer 800 EC at 3/ha			Roxy 800 EC at 4/ha			Roxy 800 EC at 5/ha			Naceto at 0.6/ha		
										Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn
NE (+CZ,DE)	PAPRH	YCERE	All at 2.6 L/ha	PLANT	10-14	0-13	31-83	23	156-259	19.4	5-99	10.0	-	-	-	62.8	0-100	56.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NE (+CZ,DE)	PAPRH	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	11-12	7-12	37-75	3	183-232	36.7	5-99	6.0	-	-	-	98.2	94.5-100	100	96.9	91.3-100	99.5	99.5	98.5-100	100	-	-	-	-	-	99.5	98.5-100	100	-	-	-	
NE (+CZ,DE)	PAPRH	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	10-13	0-12	39-77	11	202-259	21.8	6-75.5	12.0	-	-	-	47.1	0-99	40.0	48.8	0-100	48.8	-	-	-	-	-	49.0	0-100	50.0	-	-	-	-	-	-	
NE (+CZ,DE)	PAPRH	YCERE	3.5 L vs. Naceto at 0.6 L/ha	PLANT	12-12	10-11	65-69	2	215-257	5.0	5-5	5.0	-	-	-	-	-	-	93.5	87.5-99.5	93.5	-	-	-	-	-	-	-	-	-	-	99.9	99.8-100	99.9		
NE (+CZ,DE)	PAPRH	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	11-14	0-13	31-83	9	156-245	10.6	5.3-23	10.0	-	-	-	70.3	35-98.8	77.5	-	-	-	-	-	72.3	32.5-100	78.8	-	-	-	-	-	-	-	-		
NE (+CZ,DE)	POLAV	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	11-11	10-10	71-71	1	259-259	4.7	4.7-4.7	4.7	5.0	5-5	5.0	5.0	5-5	5.0	5.0	5-5	5.0	-	-	-	-	-	5.0	5-5	5.0	-	-	-	-	-	-	
NE (+CZ,DE)	POLCO	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	11-11	10-10	71-71	1	259-259	5.4	5.4-5.4	5.4	5.0	5-5	5.0	5.0	5-5	5.0	5.0	5-5	5.0	-	-	-	-	-	5.0	5-5	5.0	-	-	-	-	-	-	
NE (+CZ,DE)	STEME	YCERE	All at 4.4 L/ha	PLANT	11-21	0-14	37-71	10	171-249	18.3	5.3-83.8	10.5	-	-	-	80.8	8.8-100	90.3	83.2	9.5-100	94.6	88.0	13.5-100	99.3	-	-	-	-	-	-	-	-	-	-	-	
NE (+CZ,DE)	STEME	YCERE	All at 3.5 L/ha	PLANT	11-21	0-14	37-77	19	171-259	15.6	5.3-83.8	10.7	-	-	-	-	-	-	85.6	9.5-100	96.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NE (+CZ,DE)	STEME	YCERE	All at 2.6 L/ha	PLANT	11-21	0-14	37-77	21	171-259	15.1	5.3-83.8	10.5	-	-	-	79.4	8.8-100	92.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
NE (+CZ,DE)	STEME	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	11-12	0-10	37-51	4	171-200	32.2	6-83.8	19.5	-	-	-	73.9	8.8-100	93.5	75.0	9.5-100	95.3	78.0	13.5-100	99.3	-	-	-	-	-	79.8	21.3-100	99.0	-	-	-	
NE (+CZ,DE)	STEME	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	11-13	0-14	37-77	10	197-259	13.3	6-24.8	11.0	-	-	-	84.2	15-100	95.7	88.8	16.3-100	98.5	-	-	-	-	-	88.0	12.5-100	99.3	-	-	-	-	-	-	
NE (+CZ,DE)	STEME	YCERE	3.5 L vs. Naceto at 0.6 L/ha	PLANT	12-12	10-11	65-69	2	215-257	6.5	6-7	6.5	-	-	-	-	-	-	99.5	99-100	99.5	-	-	-	-	-	-	-	-	-	99.8	99.5-100	99.8			
NE (+CZ,DE)	STEME	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	11-21	0-13	37-67	7	181-222	8.0	5.3-10.5	8.0	-	-	-	75.6	12.5-96.3	91.3	-	-	-	-	76.3	2.5-100	91.3	-	-	-	-	-	-	-	-	-		
NE (+CZ,DE)	THLAR	YCERE	All at 3.5 L/ha	PLANT	11-13	10-14	39-65	2	200-239	29.0	8-50	29.0	-	-	-	100	100-100	100	100	100-100	100	100	100-100	100	-	-	-	100	100-100	100	-	-	-	-	-	
NE (+CZ,DE)	1VERG	YCERE	All at 4.4 L/ha	PLANT	11-13	0-10	39-65	3	189-239	12.9	9.8-18	11.0	-	-	-	97.5	92.5-100	100	99.9	99.8-100	100	100	100-100	100	-	-	-	-	-	-	-	-	-	-		
NE (+CZ,DE)	1VERG	YCERE	All at 3.5 L/ha	PLANT	11-13	0-12	37-65	7	189-239	11.3	7-18	10.0	-	-	-	-	-	-	99.9	99.3-100	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NE (+CZ,DE)	1VERG	YCERE	All at 2.6 L/ha	PLANT	11-13	0-12	37-67	9	189-239	10.9	5-18	10.0	-	-	-	97.9	88.8-100	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NE (+CZ,DE)	1VERG	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	11-11	0-0	51-51	1	189-189	9.8	9.8-9.8	9.8	-	-	-	100	100-100	100	100	100-100	100	100	100-100	100	-	-	-	-	100	100-100	100	-	-	-	-	
NE (+CZ,DE)	1VERG	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	11-13	10-12	37-65	5	200-239	12.4	8-18	11.0	-	-	-	98.5	92.5-100	100	100	99.8-100	100	-	-	-	-	100	100-100	100	-	-	-	-	-	-	-	
NE (+CZ,DE)	1VERG	YCERE	3.5 L vs. Naceto at 0.6 L/ha	PLANT	12-12	0-0	52-52	1	221-221	7.0	7-7	7.0	-	-	-	-	-	-	99.3	99.3-99.3	99.3	-	-	-	-	-	-	-	-	-	-	99.5	99.5-99.5	99.5		
NE (+CZ,DE)	1VERG	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	11-12	0-12	37-67	3	194-222	8.8	5-13	8.5	95.0	85-100	100	96.3	88.8-100	100	-	-	-	-	-	97.1	91.3-100	100	-	-	-	-	-	-	-	-		
NE (+CZ,DE)	VICCR	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	11-11	12-12	75-75	1	232-232	8.5	8.5-8.5	8.5	-	-	-	82.5	82.5-82.5	82.5	82.5	82.5-82.5	82.5	93.8	93.8-93.8	93.8	-	-	-	90.0	90-90	90.0	-	-	-	-		
NE (+CZ,DE)	VIOAR	YCERE	All at 4.4 L/ha	PLANT	11-14	0-13	31-65	8	156-239	12.9	8-19	12.0	-	-	-	43.0	0-98.8	41.3	55.4	15.5-100	55.6	61.6	21.3-100	61.3	-	-	-	-	-	-	-	-	-	-	-	
NE (+CZ,DE)	VIOAR	YCERE	All at 3.5 L/ha	PLANT	10-14	0-13	31-77	17	156-259	34.7	8-259.5	17.0	-	-	-	-	-	-	51.6	0-100	50.0	-	-	-	-	-	-	-	-	-	-	-	-	-		
NE (+CZ,DE)	VIOAR	YCERE	All at 2.6 L/ha	PLANT	10-14	0-67	31-83	19	156-259	34.6	8-259.5	19.0	-	-	-	44.0	0-98.8	50.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

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EPPO zone	Target code	Crop code	Grouping	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Crop BBCH at ass.	Nb. trials	DA-A	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 1.6-1.7 L/ha			PROSULFOCARB 900 EC at 2.6-2.7 L/ha			PROSULFOCARB 900 EC at 3.5 L/ha			PROSULFOCARB 900 EC at 4.4 L/ha			Boxer 800 EC at 3 L/ha			Roxy 800 EC at 4 L/ha			Roxy 800 EC at 5 L/ha			Naceto at 0.6 L/ha		
										Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn
NE (+CZ,DE)	VIOAR	YCERE	4.4 L/ha vs. Roxy at 5 L/ha	PLANT	11-12	0-10	37-39	3	177-200	10.0	8-13	9.0	-	-	-	35.8	12.5-70	25.0	40.2	15.5-80	25.0	45.4	21.3-90	25.0	-	-	-	-	-	-	33.3	0-80	20.0	-	-	-
NE (+CZ,DE)	VIOAR	YCERE	3.5 L/ha vs. Roxy at 4 L/ha	PLANT	10-13	0-12	37-77	10	197-259	50.7	10-259.5	21.2	-	-	-	32.9	0-76.3	23.8	47.0	0-85	46.3	-	-	-	-	-	-	44.3	0-90	43.8	-	-	-	-	-	
NE (+CZ,DE)	VIOAR	YCERE	3.5 L vs. Naceto at 0.6 L/ha	PLANT	12-12	11-11	65-65	1	257-257	13.0	13-13	13.0	-	-	-	-	-	-	82.5	82.5-82.5	82.5	-	-	-	-	-	-	-	-	-	-	-	100	100-100	100	
NE (+CZ,DE)	VIOAR	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	11-14	11-67	31-83	6	156-245	20.1	9-35	20.3	-	-	-	66.7	32.5-98.8	66.3	-	-	-	-	-	72.5	50-100	73.8	-	-	-	-	-	-	-	-		

\* Last assessment in the trial was done at 205 DA-A but the weed CHEAL disappeared early in the season. therefore the last suitable assesement for CHEAL is at 29 DA-A.

## Conclusion

A total of 14 trials were carried out in the North-East EPPO Zone to evaluate the efficacy of GLOB1913H for the control of weeds on winter cereals (soft wheat, barley, triticale and rye) in post-emergence application. Those trials have been conducted during 4 seasons between 2018 and 2021 in the Poland and Latvia. Those were combined with the results of trials conducted in the maritime part of Poland (3 trials in western part of Odra River) as well as with German and Czech trials (22 trials) since these are neighbouring countries and considered as valid to Poland. The combined results from 39 trials are thus shown in the tables below.

Data demonstrated that the efficacy of GLOB1913H at the rates of 3.5 and 4.4 L/ha (this last one in support of the requested rate of 4 L/ha) was on average equivalent to the efficacy of standard products containing prosulfocarb in a formulation containing 800 g/L applied at a comparable amount of active substance.

In particular, against some weeds as e.g. loose silky bent (APESV), annual meadowgrass (POAAN), (FUMOF), common chickweed (STEME), *Geranium* and *Veronica* species, GLOB1913H performed well at both rates, providing already a good control at the lowest requested rate.

Generally, these results also confirm the results obtained from other EPPO climatic zones. Moreover, as the performance of GLOB1913H (900 g/L of prosulfocarb) is in general comparable with existing formulations based on 800 g/L of prosulfocarb, according to PP 1/307(2), extrapolation to the complete associated claims/uses for the authorized products e.g. Roxy 800 EC and the underlying supporting data can be claimed.

From the presented results it can be clearly concluded that several weeds commonly populating cereal fields are susceptible or highly susceptible to GLOB1913H applied at dose rates starting at 3.5 L/ha. As results are strongly linked to the weed species, reference is made to the tables below showing the susceptibility spectrum of the different weeds.

In some countries, standard products containing prosulfocarb in a formulation containing 800 g/L are authorized at ranges between 3 and 5 L/ha. Susceptibility spectrum for GLOB1913H at 2.6 L/ha is thus also shown below to better reflect local common practices.

Table 3.2-68 and Table 3.2-69 show respectively the overall mean efficacy results of GLOB1913H in 1 application of 3.5 and 4.4 L/ha (this last one in support of the requested rate of 4 L/ha) against grasses and broad leaved weeds. The overall susceptibility level of each weed at the proposed rates is also indicated.

Table 3.2-70 presents separately results from weed species that appeared in just one trial.

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**Table 3.2-68: Overall efficacy and susceptibility level to GLOB1913H (Prosulfocarb 900 EC) on winter cereals against grasses- post-emergence application - North-East EPPO zone**

Means valid for Poland (when available, CZ and DE trials included in mean calculation)

EPPO zone	Target code	Crop code	Grouping	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Nb. Trials	Infection in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 2.6-2.7l/ha			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 4.4l/ha			Weighted mean at 2.6 L/ha	Weighted mean at 3.5 L/ha	Weighted mean at 4 L/ha	Suscept. Level at 2.6 L/ha**	Suscept. Level at 3.5 L/ha**	Suscept. Level at 4 L/ha**
								Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn						
NE (+CZ,DE)	ALOMY	YCERE	All at 3.5 L/ha	PLANT	10-13	0-12	13	58.1	5-225	31.8	-	-	-	67.7	28.8-100	78.6	-	-	-	58.4 (6)	67.8 (13)	66.8 (6)	MT	MT	MT
			All at 4.4 L/ha	PLANT	11-13	0-10	5	44.2	9.8-95	31.8	52	21.3-93.5	30	56.4	30-95	37.5	59.8	30-99	42.5						
			All at 3.5 L/ha	EAR	10-13	0-12	12	140.1	6-322.3	131.8	-	-	-	67.9	30.9-100	76.6	-	-	-						
			All at 4.4 L/ha	EAR	11-13	0-10	6	108.6	15-265	62.8	63.8	21.5-95.2	71.8	67.1	30.9-95.1	76.6	72.6	29.3-98.4	89.1						
NE (+CZ,DE)	APESV	YCERE	All at 3.5 L/ha	PLANT	11-21	10-13	17	27.3	5-149	15	-	-	-	97.3	87.5-100	99.5	-	-	-	96.4 (13)	97.5 (17)	99.2 (13)	HS	HS	HS
			All at 4.4 L/ha	PLANT	11-21	10-13	13	30	5-149	15	96.4	80-100	100	98.1	92.5-100	100	99	93.8-100	100						
			All at 3.5 L/ha	EAR	10-21	0-12	16	40.5	3*-149	18.1	-	-	-	97.8	92.4-100	100	-	-	-						
			All at 4.4 L/ha	EAR	11-21	10-12	11	37.8	3*-149	17	96.3	85.4-100	100	98.3	92.4-100	100	99.4	93.8-100	100						
NE (+CZ,DE)	POAAN	YCERE	All at 2.6 L/ha	PLANT	11-13	0-11	6	13.3	5-28	10.6	93.5	73.8-100	99.1	-	-	-	-	-	-	92.6 (6)	99.7 (2)	99.5 (1)	S	HS	HS
			All at 3.5 L/ha	PLANT	12-12	0-0	1	7.8	7.8-7.8	7.8	99.5	99.5-99.5	99.5	100	100-100	100	-	-	-						
			All at 4.4 L/ha	PLANT	11-11	0-0	1	28	28-28	28	98.8	98.8-98.8	98.8	99	99-99	99	99	99-99	99						
			All at 2.6 L/ha	EAR	11-12	0-11	3	22.8	5.5-38.8	24	90.8	72.3-100	100	-	-	-	-	-	-						
			All at 4.4 L/ha	EAR	11-11	0-0	1	5.5	5.5-5.5	5.5	100	100-100	100	100	100-100	100	100	100-100	100						

\*\*T=Tolerant; MT=Moderately Tolerant; MS=Moderately Susceptible; S=Susceptible; HS=Highly Susceptible



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EPPO zone	Target code	Crop code	Grouping	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Nb. Trials	InfePtation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 2.6-2.7l/ha			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 4.4l/ha			Suscept. Level at 2.6 L/ha**	Suscept. Level at 3.5 L/ha**	Suscept. Level at 4 L/ha**, <sup>1</sup>
								Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn			
NE (+CZ,DE)			All at 3.5 L/ha	PLANT	10-14	0-13	17	34.7	8-259.5	17	-	-	-	51.6	0-100	50	-	-	-			
			All at 4.4 L/ha	PLANT	11-14	0-13	8	12.9	8-19	12	43	0-98.8	41.3	55.4	15.5-100	55.6	61.6	21.3-100	61.3			

\*\*T=Tolerant; MT=Moderately Tolerant; MS=Moderately Susceptible; S=Susceptible; HS=Highly Susceptible. 1) It can be expected that GLOB1913H applied at a 4 L/ha will perform at least as good as 3.5 L/ha. When this was not the case, the susceptibility level at 3.5 L/ha was reported also for 4 L/ha since a higher number of trials was available for 3.5 L/ha and thus the average control is even more reliable.

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**Table 3.2-70: Overall efficacy and susceptibility level to GLOB1913H (Prosulfocarb 900 EC) on winter cereals against weeds which occurred in only one trial - post-emergence application - North-East EPPO zone**

Means valid for Poland (when available, CZ and DE trials included in mean calculation)

EPPO zone	Target code	Crop code	Grouping	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Nb. Trials	Infection in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 2.6-2.7l/ha			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 4.4l/ha			Suscept. Level at 2.6 L/ha**	Suscept. Level at 3.5 L/ha**	Suscept. Level at 4 L/ha**
								Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn			
NE (+CZ,DE)	CHEAL	YCERE	All at 4.4 L/ha	PLANT	13-13	11-11	1	7.8	7.8-7.8	7.8	87.5	87.5-87.5	87.5	90	90-90	90	92.5	92.5-92.5	92.5	S	S	S
NE (+CZ,DE)	DESSO	YCERE	All at 4.4 L/ha	PLANT	12-12	10-10	1	5	5-5	5	100	100-100	100	100	100-100	100	100	100-100	100	HS	HS	HS
NE (+CZ,DE)	POLAV	YCERE	All at 3.5 L/ha	PLANT	11-11	10-10	1	4.7	4.7-4.7	4.7	5	5-5	5	5	5-5	5	-	-	-	T	T	-
NE (+CZ,DE)	POLCO	YCERE	All at 3.5 L/ha	PLANT	11-11	10-10	1	5.4	5.4-5.4	5.4	5	5-5	5	5	5-5	5	-	-	-	T	T	-
NE (+CZ,DE)	VICCR	YCERE	All at 4.4 L/ha	PLANT	11-11	12-12	1	8.5	8.5-8.5	8.5	82.5	82.5-82.5	82.5	82.5	82.5-82.5	82.5	93.8	93.8-93.8	93.8	MS	MS	S

\*\*T=Tolerant; MT=Moderately Tolerant; MS=Moderately Susceptible; S=Susceptible; HS=Highly Susceptible

### South-East EPPO Zone

A total of 5 trials were carried out in the South-East EPPO Zone to evaluate the efficacy of GLOB1913H for the control of weeds on winter cereals (soft wheat, barley) in post-emergence application. Those trials have been conducted during 2 seasons between 2020 and 2021 in Croatia, Hungary and Romania.

Filon/Boxer/Fidox (prosulfocarb 800 g/L) was included in the trials as a uniform reference, applied at authorized label rate of 3 L/ha. Table headers report the most common product name/rate applied. Exceptions are specified in the detailed table.

The percentage of visual control at the final spring assessment containing enough weeds per square meters were summarized below for each weed. In case of grass weeds, also the counting of ears was in general performed. The final spring assessment, besides having a higher weed pressure compared to earlier assessments, also provides a long term view of the effects of the herbicide applied just after emergence. In very few cases, when the above criteria could not be met, an earlier assessment was chosen. The minimum population of 5 plants/m<sup>2</sup> was considered for validation of the trial and assessment.

Data are grouped by weed species and summarized at the end of each table by an orthogonal comparison of the control achieved by GLOB1913H to the one achieved by the reference products containing prosulfocarb at the same amount of active substance applied.

The color scheme used to classify the levels of weed control are described above in section 3.2.3 Efficacy tests (KCP 6.2).

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## Results

### Grass weeds

**Table 3.2-71: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against grasses – post-emergence application - South-East EPPO Zone**

EPPO zone	Target code	Crop code	Grouping	Part Rated	Crop BBCH at appl.B	Weed BBCH at appl.B	Crop BBCH at ass.	Nb. trials	DA-B	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 2.6/ha			Filon 80 EC at 3/ha		
										Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn
S-E	APESV	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	11-12	10-11	65-87	5	182-214	18.0	6-40	12.5	85.0	75-95	81.3	86.9	75-98.8	85.0
S-E	APESV	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	EAR	11-12	10-11	65-87	5	182-214	25.3	6-63.8	9.3	82.7	45.2-95	93.3	86.9	53.8-97.2	96.4
S-E	POAAN	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	11-11	10-12	65-65	2	186-214	38.3	33.8-42.8	38.3	94.1	92.5-95.6	94.1	93.1	93.1-93.1	93.1
S-E	POAAN	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	EAR	12-12	10-12	65-65	2	186-214	27.7	23.3-32	27.7	96.9	95.7-98.1	96.9	96.0	95.1-96.9	96.0

### Broad leaved weeds

**Table 3.2-72: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against broadleaved weeds – post -emergence application - South-East EPPO Zone**

EPPO zone	Target code	Crop code	Grouping	Part Rated	Crop BBCH at appl.B	Weed BBCH at appl.B	Crop BBCH at ass.	Nb. trials	DA-B	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 2.6/ha			Filon 80 EC at 3/ha		
										Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn
S-E	CONAR	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	11-11	0-0	65-65	1	197-197	8.0	8-8	8	73.8	73.8-73.8	73.75	75.0	75-75	75
S-E	DESSO	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	12-12	12-12	87-87	1	214-214	6.0	6-6	6	50.0	50-50	50	47.5	47.5-47.5	47.5
S-E	GALAP	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	11-11	10-10	65-65	1	214-214	9.0	9-9	9	91.3	91.3-91.3	91.25	90.0	90-90	90
S-E	PAPRH	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	11-11	9-11	65-65	2	186-214	57.3	55.5-59	57.3	76.3	75-77.5	76.3	77.5	75-80	77.5
S-E	STEME	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	11-11	0-12	65-87	4	186-214	36.1	14.8-67.8	30.9	75.5	30-93.8	89.1	79.4	45-95.6	88.4
S-E	VERHE	YCERE	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	11-11	10-10	87-87	1	214-214	12.5	12.5-12.5	12.5	62.5	62.5-62.5	62.5	70.0	70-70	70

## Conclusion

A total of 5 trials were carried out in the South-East EPPO Zone to evaluate the efficacy of GLOB1913H for the control of weeds on winter cereals (wheat, barley) in post-emergence application. Those trials have been conducted during 2 seasons between 2020 and 2021 in Croatia, Hungary and Romania.

Data demonstrated that the efficacy of GLOB1913H at the rate of 2.6 L/ha was on average equivalent to the efficacy of standard products containing prosulfocarb in a formulation containing 800 g/L applied at a comparable amount of active substance, which is the locally authorized rate of 3 L/ha.

Generally, these results also confirm the results obtained from other EPPO climatic zones.

In some countries, standard products containing prosulfocarb in a formulation containing 800 g/L are authorized at ranges between 3 and 5 L/ha. As the performance of GLOB1913H (900 g/L of prosulfocarb) is in general comparable with existing formulations based on 800 g/L of prosulfocarb, according to PP 1/307(2), extrapolation to the complete associated claims/uses for the authorized products e.g. Roxy 800 EC and the underlying supporting data can be claimed.

From the presented results it can be clearly concluded that several weeds commonly populating cereal fields are moderately susceptible to GLOB1913H applied at dose rates starting at 2.6 L/ha. It can be expected that GLOB1913H applied at the requested rates 3.5-4 L/ha will perform at least as good as at 2.6 L/ha. As results are strongly linked to the weed species, reference is made to the tables below showing the susceptibility spectrum of the different weeds.

Table 3.2-73 and Table 3.2-74 show respectively the overall mean efficacy results of GLOB1913H in 1 application of 2.6 L/ha against grasses and broad leaved weeds. The overall susceptibility level of each weed at the proposed rates is also indicated.

Table 3.2-75 presents separately results from weed species that appeared in just one trial.

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**Table 3.2-73: Overall efficacy and susceptibility level to GLOB1913H (Prosulfocarb 900 EC) on winter cereals against grasses- post-emergence application - South-East EPPO Zone**

EPPO zone	Target code	Grouping	Part Rated	Crop BBCH at appl.B	Weed BBCH at appl.B	Nb. trials	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 2.6l/ha (post-em)			Weighted mean at 2.6 L/ha**	Suscept. Level at 2.6 L/ha**
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn		
S-E	APESV	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	11-12	10-11	5	18.0	6-40	12.5	85.0	75-95	81.3	83.9 (5)	MS
S-E	APESV	2.6 L/ha vs. Roxy at 3 L/ha	EAR	11-12	10-11	5	25.3	6-63.8	9.3	82.7	45.2-95	93.3		
S-E	POAAN	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	11-11	10-12	2	38.3	33.8-42.8	38.3	94.1	92.5-95.6	94.1	95.5 (2)	HS
S-E	POAAN	2.6 L/ha vs. Roxy at 3 L/ha	EAR	11-11	10-12	2	27.7	23.3-32	27.7	96.9	95.7-98.1	96.9		

\*\*T=Tolerant; MT=Moderately Tolerant; MS=Moderately Susceptible; S=Susceptible; HS=Highly Susceptible

**Table 3.2-74: Overall efficacy and susceptibility level to GLOB1913H (Prosulfocarb 900 EC) on winter cereals against broad leaved weeds - post-emergence application - South-East EPPO Zone**

EPPO zone	Target code	Grouping	Part Rated	Crop BBCH at appl.B	Weed BBCH at appl.B	Nb. trials	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 2.6l/ha (post-em)			Suscept. Level at 2.6 L/ha**
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
S-E	PAPRH	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	11-11	9-11	2	57.3	55.5-59	57.3	76.3	75-77.5	76.3	MS
S-E	STEME	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	11-12	0-12	4	36.1	14.8-67.8	30.9	75.5	30-93.8	89.1	MS

\*\*T=Tolerant; MT=Moderately Tolerant; MS=Moderately Susceptible; S=Susceptible; HS=Highly Susceptible

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**Table 3.2-75: Overall efficacy and susceptibility level to GLOB1913H (Prosulfocarb 900 EC) on winter cereals against weeds which occurred in only one trial - post-emergence application - South-East EPPO Zone**

EPPO zone	Target code	Grouping	Part Rated	Crop BBCH at appl.B	Weed BBCH at appl.B	Nb. trials	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 2.6l/ha (post-em)			Suscept. Level at 2.6 L/ha**
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
S-E	CONAR	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	11-11	0-0	1	8.0	8-8	8	73.8	73.8-73.8	73.75	MS
S-E	DESSO	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	12-12	12-12	1	6.0	6-6	6	50.0	50-50	50	MT
S-E	GALAP	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	11-11	10-10	1	9.0	9-9	9	91.3	91.3-91.3	91.25	S
S-E	VERHE	2.6 L/ha vs. Roxy at 3 L/ha	PLANT	12-12	10-10	1	12.5	12.5-12.5	12.5	62.5	62.5-62.5	62.5	MT

\*\*T=Tolerant; MT=Moderately Tolerant; MS=Moderately Susceptible; S=Susceptible; HS=Highly Susceptible

### Mediterranean EPPO Zone

A total of 12 trials were carried out in the Mediterranean EPPO Zone to evaluate the efficacy of GLOB1913H for the control of weeds on winter cereals (soft wheat, durum wheat, barley and triticale) in post-emergence application. Those trials have been conducted during 3 seasons between 2018 and 2020 in Croatia, southern part of France, Italy and Spain.

As a lower dose rate was included in most of the trials, these results are presented in detail under point 3.2.3 Efficacy tests but summarized and also discussed above under point 3.2.2 Minimum effective dose tests.

Roxy 800 EC/Auros/Defi/Filon (all prosulfocarb 800 g/L) were included in the majority of trials as a uniform reference, applied at authorized label rates. In a few trials where a prosulfocarb 800 g/L was not available for comparison or not authorized in the country, Fuga Delta, Herold, Battle Delta (diflufenican + flufenacet) was used at 0.6 L/ha. Table headers report the most common product name/rate applied. Exceptions are specified in the detailed table.

The percentage of visual control at the final spring assessment containing enough weeds per square meters were summarized below for each weed. In case of grass weeds, also the counting of ears was in general performed. The final spring assessment, besides having a higher weed pressure compared to earlier assessments, also provides a long term view of the effects of the herbicide applied just after emergence. In very few cases, when the above criteria could not be met, an earlier assessment was chosen. The minimum population of 5 plants/m<sup>2</sup> was considered for validation of the trial and assessment.

Data are grouped by weed species and summarized at the end of each table by an orthogonal comparison of the control achieved by GLOB1913H to the one achieved by the reference products containing prosulfocarb at the same amount of active substance applied. If the same subset of trials had tested other rates of GLOB1913H, means are presented also for those rates. An additional comparison is provided across all trials and dose rates of GLOB1913H (grouping “All”). Some species were grouped according to taxonomic and biological similarity (i.e. *Veronica* species, EPPO code 1VERG and *Avena* species).

In the mediterranean zone, a few trials had a late sowing and/or late application and so less time elapsed to the spring assessment. These exceptions are well described in Table 3.2-40 and are within the normal range in countries as Italy and Spain. Application detail of those trials are also summarized here below. Nevertheless, weeds and crop were at right stage at application and control levels were in line with the full set of data. Therefore all trials are considered valid. Results of those trials are presented separately.

Climate Zone	KCP	Crop Code	Sowing date	Appl. date	Crop BBCH at appl.	Weed BBCH at appl.
EPOMED	KCP 6.2-109	TRZAW	14/01/2020	07/02/2020	12	12
EPOMED	KCP 6.2-107	HORVW	03/02/2020	26/02/2020	14	11-12
EPOMED	KCP 6.2-112	HORVW	06/11/2019	28/02/2020	23	13-17
EPOMED	KCP 6.2-116	TRZAW	29/11/2019	06/02/2020	13	10-12
EPOMED	KCP 6.2-121	TRZDW	06/12/2019	31/01/2020	13	13-15

The color scheme used to classify the levels of weed control are described above in section 3.2.3 Efficacy tests (KCP 6.2).

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## Results

### Grass weeds

**Table 3.2-76: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against grasses – post-emergence application – Mediterranean EPPO zone**

EPPO zone	Target code	Crop code	Grouping	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Crop BBCH at ass.	Nb. trials	DA-A	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 2.6-2.7l/ha			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 4.4l/ha			Roxy 800 EC at 4l/ha			Roxy 800 EC at 5l/ha			Fuga Delta at 0.6l/ha		
										Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn
MED	ALOMY	TRZAW	vs. Roxy at 5 L/ha	PLANT	13-13	0-10	53-75	2	162-186	12.0	6-18	12.0	85.0	70-100	85.0	86.9	73.8-100	86.9	91.3	82.5-100	91.3	-	-	-	90.0	80-100	90.0	-	-	-
MED	ALOMY	TRZAW	vs. Roxy at 5 L/ha	EAR	13-13	10-10	75-75	1	186-186	18.0	18-18	18.0	74.0	74-74	74.0	75.5	75.5-75.5	75.5	80.7	80.7-80.7	80.7	-	-	-	78.7	78.7-78.7	78.7	-	-	-
MED	APESV	TRZAW HORVW	vs. Roxy at 5 L/ha	PLANT	12-13	12-13	65-69	3	160-166	8.1	7.8-8.3	8.3	65.0	60-72.5	62.5	88.3	87.5-90	87.5	92.9	92.5-93.8	92.5	-	-	-	91.3	91.3-91.3	91.3	-	-	-
MED	APESV	TRZAW HORVW	vs. Roxy at 5 L/ha late sowing	PLANT	12-14	11-12	59-61	2	61*-67	10.3	7.3-13.3	10.3	48.8	32.5-65	48.8	72.5	65-80	72.5	63.8	55-72.5	63.8	-	-	-	73.8	72.5-75	73.8	-	-	-
MED	APESV	TRZAW	vs. Roxy at 4 L/ha	PLANT	13-13	11-11	71-71	1	108-108	11.0	11-11	11.0	90.3	90.3-90.3	90.3	91.0	91-91	91.0	93.3	93.3-93.3	93.3	93.3	93.3-93.3	93.3	-	-	-	-	-	-
MED	APESV	TRZAW HORVW	vs. Roxy at 5 L/ha	EAR	12-13	12-13	65-69	3	160-166	5.6	5-6.5	5.3	87.8	79.6-95	88.7	95.3	95-95.8	95.0	100.0	100-100	100.0	-	-	-	100.0	100-100	100.0	-	-	-
MED	APESV	TRZAW HORVW	vs. Roxy at 5 L/ha late sowing	EAR	12-14	11-12	59-61	2	61*-67	26.6	22-31.3	26.6	68.0	63.1-73	68.0	84.1	80-88.2	84.1	79.0	74.1-83.8	79.0	-	-	-	81.5	73.6-89.4	81.5	-	-	-
MED	APESV	TRZAW	vs. Roxy at 4 L/ha	EAR	13-13	11-11	71-71	1	108-108	20.3	20.3-20.3	20.3	84.6	84.6-84.6	84.6	85.1	85.1-85.1	85.1	90.1	90.1-90.1	90.1	94.0	94-94	94.0	-	-	-	-	-	-
MED	AVESP	TRZAW	vs. Roxy at 4 L/ha late sowing	PLANT	13-13	12-13	65-65	2	90-95*	60.0	7-113	60.0	58.1	51.3-65	58.1	63.8	51.3-76.3	63.8	69.4	55-83.8	69.4	65.0	53.8-76.3	65.0	-	-	-	-	-	-
MED	AVESP	TRZAW	vs. Roxy at 5 L/ha	PLANT	11-11	0-0	65-65	1	190-190	8.8	8.8-8.8	8.8	50.0	50-50	50.0	88.8	88.8-88.8	88.8	90.0	90-90	90.0	-	-	-	90.0	90-90	90.0	90.0	90-90	90.0
MED	AVESP	TRZAW	4.4 L vs. Fuga Delta at 0.6 L/ha	PLANT	13-13	0-0	65-65	1	152-152	6.0	6-6	6.0	-	-	-	-	-	-	60.0	60-60	60.0	-	-	-	-	-	-	70.0	70-70	70.0
MED	AVESP	TRZAW	vs. Roxy at 4 L/ha late sowing	EAR	13-13	12-13	65-65	2	90-95*	53.1	29.8-76.5	53.1	44.2	14-74.4	44.2	48.8	13.5-84.1	48.8	55.0	19.6-90.4	55.0	49.9	12.4-87.4	49.9	-	-	-	-	-	-
MED	AVESP	TRZAW	vs. Roxy at 5 L/ha	EAR	11-11	0-0	65-65	1	190-190	6.3	6.3-6.3	6.3	73.1	73.1-73.1	73.1	97.2	97.2-97.2	97.2	100.0	100-100	100.0	-	-	-	100.0	100-100	100.0	100.0	100-100	100.0
MED	AVESP	TRZAW	4.4 L vs. Fuga Delta at 0.6 L/ha	EAR	13-13	0-0	65-65	1	152-152	34.5	34.5-34.5	34.5	-	-	-	-	-	-	11.3	11.3-11.3	11.3	-	-	-	-	-	-	30.6	30.6-30.6	30.6
MED	LOLMU	TRZAW HORVW	vs. Roxy at 5 L/ha	PLANT	12-13	10-13	65-75	5	160-186	8.5	7.3-11	7.5	61.5	50-70	62.5	77.3	57.5-90	81.3	87.8	66.3-96.3	92.5	-	-	-	85.1	61.3-93.8	91.9	-	-	-
MED	LOLMU	TRZAW	4.4 L vs. Fuga Delta at 0.6 L/ha	PLANT	11-13	11-13	65-65	2	152-197	7.5	7-8	7.5	-	-	-	-	-	-	80.6	70-91.3	80.6	-	-	-	-	-	-	90.3	85-95.6	90.3

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EPPO zone	Target code	Crop code	Grouping	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Crop BBCH at ass.	Nb. trials	DA-A	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 2.6-2.7/ha			PROSULFOCARB 900 EC at 3.5/ha			PROSULFOCARB 900 EC at 4.4/ha			Roxy 800 EC at 4/ha			Roxy 800 EC at 5/ha			Fuga Delta at 0.6/ha		
										Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn
MED	LOLMU	TRZAW HORVW	vs. Roxy at 5 L/ha	EAR	12-13	10-13	65-75	5	160-186	6.8	4.3-11	6.0	77.9	49.3-93.7	90.8	86.3	58.5-97.2	95.0	91.7	64.9-100	100.0	-	-	-	90.8	54.1-100	100.0	-	-	-
MED	LOLMU	TRZAW	4.4 L vs. Fuga Delta at 0.6 L/ha	EAR	11-13	11-13	65-65	2	152-197	16.6	5.8-27.5	16.6	-	-	-	-	-	-	62.6	25.2-100	62.6	-	-	-	-	-	-	71.6	47.4-95.8	71.6
MED	LOLPE	TRZAW	vs. Roxy at 5 L/ha	EAR	12-12	12-12	67-67	1	164-164	53.5	53.5-53.5	53.5	98.9	98.9-98.9	98.9	99.0	99-99	99.0	100.0	100-100	100.0	99.1	99.1-99.1	99.1	-	-	-	-	-	-
MED	LOLRI	TRZAW HORVW TTLWI	vs. Roxy at 5 L/ha	PLANT	10-14	10-12	65-69	4	107-159	33.5	10-60.3	31.8	88.1	77.5-95	90.0	88.1	72.5-96.3	91.9	93.4	90-97.5	93.1	-	-	-	90.6	70-98.8	96.9	-	-	-
MED	LOLRI	TRZAW HORVW TTLWI	vs. Roxy at 5 L/ha	EAR	10-14	10-12	65-69	4	107-159	74.9	43.5-114	71.0	84.6	67.4-95.9	87.6	85.7	75.1-97.2	85.2	88.0	70.9-98.4	91.4	-	-	-	92.3	81-98.6	94.8	-	-	-
MED	POAAN	TRZAW	vs. Roxy at 4 L/ha	PLANT	14-14	12-12	73-73	1	109-109	6.5	6.5-6.5	6.5	97.5	97.5-97.5	97.5	98.5	98.5-98.5	98.5	99.0	99-99	99.0	99.0	99-99	99.0	-	-	-	-	-	-
MED	POAAN	TRZAW HORVW	vs. Roxy at 5 L/ha	PLANT	11-13	0-13	53-69	7	160-190	58.6	10.5-101	72.3	80.5	62.5-100	75.0	91.8	83.8-100	90.0	95.4	90-100	95.0	-	-	-	95.3	91.3-100	95.0	-	-	-
MED	POAAN	TRZAW HORVW	4.4 L vs. Fuga Delta at 0.6 L/ha	PLANT	11-12	0-11	32-65	2	141-197	32.8	4.8-60.8	32.8	-	-	-	-	-	-	96.3	93.8-98.8	96.3	-	-	-	-	-	-	97.8	95.6-100	97.8
MED	POAAN	TRZAW	vs. Roxy at 4 L/ha	EAR	14-14	12-12	73-73	1	109-109	9.3	9.3-9.3	9.3	95.4	95.4-95.4	95.4	95.1	95.1-95.1	95.1	94.4	94.4-94.4	94.4	95.3	95.3-95.3	95.3	-	-	-	-	-	-
MED	POAAN	TRZAW HORVW	vs. Roxy at 5 L/ha	EAR	12-13	11-13	65-69	4	160-184	46.9	34.5-53.5	49.9	93.0	91.6-96.2	92.2	94.9	93.3-97.5	94.4	96.0	92.5-98.7	96.5	-	-	-	97.4	95.7-99.6	97.2	-	-	-
MED	POAAN	TRZAW	4.4 L vs. Fuga Delta at 0.6 L/ha	EAR	11-11	11-11	65-65	1	197-197	42.7	42.7-42.7	42.7	-	-	-	-	-	-	97.7	97.7-97.7	97.7	-	-	-	-	-	-	98.6	98.6-98.6	98.6

\* Trials with late sowing/late application, less time elapsed between application and assessment.

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### Broad leaved weeds

**Table 3.2-77: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against broadleaved weeds – post-emergence application – Mediterranean EPPO zone**

EPPO zone	Target code	Crop code	Grouping	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Crop BBCH at ass.	Nb. trials	DA-A	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 2.6-2.7l/ha			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 4.4l/ha			Roxy 800 EC at 4l/ha			Roxy 800 EC at 5l/ha			Fuga Delta at 0.6l/ha		
										Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn
MED	ANGAR	TRZAW	vs. Roxy at 5 L/ha late sowing	PLANT	12-12	12-12	61-61	1	67*	13.8	13.8-13.8	13.8	32.5	32.5-32.5	32.5	60.0	60-60	60.0	55.0	55-55	55.0	-	-	-	62.5	62.5-62.5	62.5	-	-	-
MED	CENCY	TRZAW HORVW	vs. Roxy at 5 L/ha	PLANT	12-13	12-12	65-69	5	123-166	12.1	7-29	7.8	68.8	52.5-86.3	70.0	82.0	61.3-90	85.0	86.3	63.8-95	93.8	-	-	-	86.8	67.5-95	92.5	-	-	-
MED	CENDL	TRZAW HORVW	vs. Roxy at 5 L/ha late sowing	PLANT	12-14	12-12	59-61	2	61-67*	9.8	9.8-9.8	9.8	50.6	33.8-67.5	50.6	65.0	55-75	65.0	68.8	63.8-73.8	68.8	-	-	-	78.8	71.3-86.3	78.8	-	-	-
MED	CHYSE	TRZAW	vs. Roxy at 4 L/ha late sowing	PLANT	13-13	15-15	65-65	1	90*	12.0	12-12	12.0	55.0	55-55	55.0	60.0	60-60	60.0	60.0	60-60	60.0	60.0	60-60	60.0	-	-	-	-	-	-
MED	CHYSE	TRZAW	4.4 L vs. Fuga Delta at 0.6 L/ha	PLANT	13-13	14-14	65-65	1	152-152	13.0	13-13	13.0	-	-	-	-	-	-	60.0	60-60	60.0	-	-	-	-	-	-	85.0	85-85	85.0
MED	CLDAR	TRZAW	vs. Roxy at 4 L/ha late sowing	PLANT	13-13	15-15	65-65	1	90*	10.0	10-10	10.0	57.5	57.5-57.5	57.5	58.8	58.8-58.8	58.8	62.5	62.5-62.5	62.5	57.5	57.5-57.5	57.5	-	-	-	-	-	-
MED	CLDAR	TRZAW	4.4 L vs. Fuga Delta at 0.6 L/ha	PLANT	13-13	14-14	65-65	1	152-152	9.0	9-9	9.0	-	-	-	-	-	-	60.0	60-60	60.0	-	-	-	-	-	-	75.0	75-75	75.0
MED	DIPMU	HORVW	vs. Roxy at 5 L/ha late sowing	PLANT	14-14	12-12	59-59	1	61*	8.8	8.8-8.8	8.8	61.3	61.3-61.3	61.3	70.0	70-70	70.0	71.3	71.3-71.3	71.3	-	-	-	72.5	72.5-72.5	72.5	-	-	-
MED	FUMOF	TRZAW	vs. Roxy at 5 L/ha	PLANT	23-23	14-14	71-71	1	109-109	6.3	6.3-6.3	6.3	88.8	88.8-88.8	88.8	93.8	93.8-93.8	93.8	95.0	95-95	95.0	96.8	96.8-96.8	96.8	-	-	-	-	-	-
MED	GALAP	TRZAW	vs. Roxy at 4 L/ha	PLANT	13-23	18-18	71-71	2	108-109	12.5	11.5-13.5	12.5	93.5	88-99	93.5	94.5	90-99	94.5	96.0	93-99	96.0	94.4	89.8-99	94.4	-	-	-	-	-	-
MED	GALAP	TRZAW HORVW TTLWI	vs. Roxy at 5 L/ha	PLANT	11-14	0-14	65-69	6	107-190	13.3	8.8-17.2	13.7	65.4	45-90	67.5	79.4	50-92.5	81.9	84.2	47.5-93.8	90.0	-	-	-	84.4	50-93.8	90.0	-	-	-
MED	GALAP	TRZAW	4.4 L vs. Fuga Delta at 0.6 L/ha	PLANT	11-13	12-12	65-65	2	152-197	8.5	6-11	8.5	-	-	-	-	-	-	81.9	70-93.8	81.9	-	-	-	-	-	-	91.9	88.8-95	91.9
MED	GALAP	TRZAW	vs. Roxy at 4 L/ha late sowing	PLANT	13-13	13-13	65-65	1	90*	6.0	6-6	6.0	57.5	57.5-57.5	57.5	60.0	60-60	60.0	62.5	62.5-62.5	62.5	60.0	60-60	60.0	-	-	-	-	-	-
MED	GALAP	TRZAW HORVW	vs. Roxy at 5 L/ha late sowing	PLANT	12-14	12-12	59-61	2	61-90*	9.6	9.3-9.8	9.6	-	-	-	-	-	-	67.5	67.5-67.5	67.5	-	-	-	66.3	62.5-70	66.3	-	-	-
MED	GERDI	TRZAW	vs. Roxy at 4 L/ha late sowing	PLANT	13-13	12-12	65-65	1	95*	53.0	53-53	53.0	76.3	76.3-76.3	76.3	81.3	81.3-81.3	81.3	83.8	83.8-83.8	83.8	80.0	80-80	80.0	-	-	-	-	-	-
MED	LAMAM	TTLWI	vs. Roxy at 5 L/ha	PLANT	14-14	11-11	65-65	1	107-107	33.3	33.3-33.3	33.3	41.3	41.3-41.3	41.3	40.0	40-40	40.0	36.3	36.3-36.3	36.3	-	-	-	41.3	41.3-41.3	41.3	-	-	-
MED	LAMPU	TRZAW	vs. Roxy at 4 L/ha late sowing	PLANT	13-13	10-10	65-65	1	95*	8.0	8-8	8.0	86.3	86.3-86.3	86.3	91.3	91.3-91.3	91.3	95.0	95-95	95.0	88.8	88.8-88.8	88.8	-	-	-	-	-	-

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EPPO zone	Target code	Crop code	Grouping	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Crop BBCH at ass.	Nb. trials	DA-A	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 2.6-2.7/ha			PROSULFOCARB 900 EC at 3.5/ha			PROSULFOCARB 900 EC at 4.4/ha			Roxy 800 EC at 4l/ha			Roxy 800 EC at 5l/ha			Fuga Delta at 0.6l/ha		
										Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn
MED	LAMPU	HORVW	vs. Roxy at 5 L/ha late sowing	PLANT	23-23	13-13	69-69	1	75*	11.8	11.8-11.8	11.8	95.0	95-95	95.0	97.5	97.5-97.5	97.5	100.0	100-100	100.0	-	-	-	97.5	97.5-97.5	97.5	-	-	-
MED	LAMPU	HORVW	4.4 L vs. Fuga Delta at 0.6 L/ha	PLANT	12-12	10-10	32-32	1	141-141	5.5	5.5-5.5	5.5	-	-	-	-	-	-	100.0	100-100	100.0	-	-	-	-	-	-	100.0	100-100	100.0
MED	MATCH	TRZAW	vs. Roxy at 5 L/ha	PLANT	12-12	10-10	69-69	1	200-200	37.3	37.3-37.3	37.3	80.0	80-80	80.0	66.7	66.7-66.7	66.7	88.3	88.3-88.3	88.3	-	-	-	76.7	76.7-76.7	76.7	-	-	-
MED	MATCH	HORVW	vs. Roxy at 5 L/ha late sowing	PLANT	14-14	12-12	59-59	1	61*	21.0	21-21	21.0	57.5	57.5-57.5	57.5	77.5	77.5-77.5	77.5	68.8	68.8-68.8	68.8	-	-	-	71.3	71.3-71.3	71.3	-	-	-
MED	MATIN	TRZAW HORVW TTLWI	vs. Roxy at 5 L/ha	PLANT	11-14	0-12	65-69	8	107-190	62.4	15-98.5	69.4	43.4	20-67.5	40.6	56.6	21.3-90	61.9	59.4	22.5-96.3	57.5	-	-	-	59.4	22.5-93.8	61.3	-	-	-
MED	MATIN	TRZAW HORVW	4.4 L vs. Fuga Delta at 0.6 L/ha	PLANT	11-13	0-12	65-69	3	152-197	10.6	5.8-14	12.0	-	-	-	-	-	-	83.8	65-96.3	90.0	-	-	-	-	-	-	93.1	85-97.5	96.9
MED	PAPRH	TRZAW	vs. Roxy at 4 L/ha	PLANT	12-23	0-16	52-71	3	108-155	8.0	6.3-11	6.8	59.8	0-91	88.5	59.7	0-93	86.0	62.7	10-95.5	82.5	64.3	12.5-92.8	87.5	-	-	-	-	-	-
MED	PAPRH	TRZAW HORVW TTLWI	vs. Roxy at 5 L/ha	PLANT	10-14	0-13	65-75	12	107-200	36.0	6-84.5	31.0	64.0	30-93.8	60.0	71.8	25-95	76.9	76.9	30-100	83.1	-	-	-	79.0	35-100	82.2	-	-	-
MED	PAPRH	TRZAW	4.4 L vs. Fuga Delta at 0.6 L/ha	PLANT	11-11	12-12	65-65	1	197-197	60.8	60.8-60.8	60.8	-	-	-	-	-	-	72.5	72.5-72.5	72.5	-	-	-	-	-	-	95.0	95-95	95.0
MED	PAPRH	TRZAW	vs. Roxy at 4 L/ha late sowing	PLANT	13-13	14-14	65-65	1	90*	8.0	8-8	8.0	56.3	56.3-56.3	56.3	60.0	60-60	60.0	62.5	62.5-62.5	62.5	57.5	57.5-57.5	57.5	-	-	-	-	-	-
MED	PAPRH	TRZAW HORVW	vs. Roxy at 5 L/ha late sowing	PLANT	12-14	11-12	59-61	2	61-67*	8.3	7.5-9	8.3	58.8	33.8-83.8	58.8	73.8	58.8-88.8	73.8	76.9	53.8-100	76.9	-	-	-	81.9	63.8-100	81.9	-	-	-
MED	SINAR	TRZAW	vs. Roxy at 4 L/ha late sowing	PLANT	13-13	14-14	65-65	1	90*	11.0	11-11	11.0	57.5	57.5-57.5	57.5	61.3	61.3-61.3	61.3	62.5	62.5-62.5	62.5	60.0	60-60	60.0	-	-	-	-	-	-
MED	SINAR	TRZAW	4.4 L vs. Fuga Delta at 0.6 L/ha	PLANT	13-13	14-14	65-65	1	152-152	8.0	8-8	8.0	-	-	-	-	-	-	90.0	90-90	90.0	-	-	-	-	-	-	100.0	100-100	100.0
MED	STEME	TRZAW	vs. Roxy at 4 L/ha	PLANT	13-14	12-14	71-73	2	108-109	25.8	22.5-29	25.8	87.0	81.5-92.5	87.0	89.4	83.3-95.5	89.4	90.9	84.5-97.3	90.9	89.5	86.5-92.5	89.5	-	-	-	-	-	-
MED	STEME	TRZAW HORVW	vs. Roxy at 5 L/ha	PLANT	10-13	0-14	65-75	8	159-200	43.5	5-83.7	53.1	75.0	55-100	66.3	83.9	60-100	81.9	90.7	75-100	90.0	-	-	-	89.5	65-100	90.0	-	-	-
MED	STEME	TRZAW HORVW	4.4 L vs. Fuga Delta at 0.6 L/ha	PLANT	11-13	0-13	32-65	3	141-197	20.5	6.8-44.8	10.0	-	-	-	-	-	-	87.7	70-100	93.1	-	-	-	-	-	-	95.2	91.9-100	93.8
MED	STEME	TRZAW	vs. Roxy at 5 L/ha late sowing	PLANT	12-12	12-12	61-61	1	67*	9.0	9-9	9.0	-	-	-	-	-	-	63.8	63.8-63.8	63.8	-	-	-	72.5	72.5-72.5	72.5	-	-	-
MED	IVERG	TRZAW	vs. Roxy at 4 L/ha	PLANT	23-23	21-21	71-71	1	109-109	13.5	13.5-13.5	13.5	99.0	99-99	99.0	99.0	99-99	99.0	99.0	99-99	99.0	98.8	98.8-98.8	98.8	-	-	-	-	-	-
MED	IVERG	TRZAW HORVW	vs. Roxy at 5 L/ha	PLANT	13-13	10-12	65-75	2	123-186	7.4	7-7.8	7.4	90.6	81.3-100	90.6	91.3	82.5-100	91.3	90.0	80-100	90.0	-	-	-	98.1	96.3-100	98.1	-	-	-

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EPPO zone	Target code	Crop code	Grouping	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Crop BBCH at ass.	Nb. trials	DA-A	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 2.6-2.7/ha			PROSULFOCARB 900 EC at 3.5/ha			PROSULFOCARB 900 EC at 4.4/ha			Roxy 800 EC at 4l/ha			Roxy 800 EC at 5l/ha			Fuga Delta at 0.6l/ha		
										Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn
MED	IVERG	TRZAW	vs. Roxy at 4 L/ha late sowing	PLANT	13-13	10-13	65-65	3	90-95*	74.0	7-117	98.0	74.6	57.5-83.8	82.5	80.4	60-92.5	88.8	85.0	62.5-97.5	95.0	77.9	57.5-88.8	87.5	-	-	-	-	-	-
MED	IVERG	HORVW	vs. Roxy at 5 L/ha late sowing	PLANT	23-23	17-17	69-69	2	75*	32.2	19.5-44.8	32.2	90.0	80-100	90.0	86.3	77.5-95	86.3	90.6	81.3-100	90.6	-	-	-	91.3	85-97.5	91.3	-	-	-
MED	VIOAR	TRZAW	vs. Roxy at 5 L/ha	PLANT	12-12	0-0	52-52	1	155-155	71.0	71-71	71.0	0.0	0-0	0.0	0.0	0-0	0.0	5.0	5-5	5.0	2.5	2.5-2.5	2.5	-	-	-	-	-	-

## Conclusion

A total of 12 trials were carried out in the Mediterranean EPPO Zone to evaluate the efficacy of GLOB1913H for the control of weeds on winter cereals (soft wheat, durum wheat, barley and triticale) in post-emergence application. Those trials have been conducted during 3 seasons between 2018 and 2020 in Croatia, southern part of France, Italy and Spain.

Data demonstrated that the efficacy of GLOB1913H at the maximum rate of 4.4 L/ha (data in support of the requested rate of 4 L/ha) was on average equivalent to the efficacy of standard products containing prosulfocarb in a formulation containing 800 g/L applied at a comparable amount of active substance.

In particular, against some weeds as e.g. loose silky bent (APESV), annual rye-grass (LOLRI), annual meadowgrass (POAAN), common chickweed (STEME), and *Veronica* species (1VERG), GLOB1913H performed well at both rates, providing already a good control at the lowest requested rate of 3.5 L/ha.

In a few trials where the reference standard was Fuga Delta or equivalent, the overall control of GLOB1913H was slightly lower. This is expected since Naceto is a mixture of 2 different active substances and since prosulfocarb based products are often used in tank-mixtures in order to improve control and spectrum.

Generally, these results also confirm the results obtained from other EPPO climatic zones. Moreover, as the performance of GLOB1913H (900 g/L of prosulfocarb) is in general comparable with existing formulations based on 800 g/L of prosulfocarb, according to PP 1/307(2), extrapolation to the complete associated claims/uses for the authorized products e.g. Roxy 800 EC and the underlying supporting data can be claimed.

From the presented results it can be clearly concluded that several weeds commonly populating cereal fields are susceptible or highly susceptible to GLOB1913H applied at dose rates starting at 3.5 L/ha. As results are strongly linked to the weed species, reference is made to the tables below showing the susceptibility spectrum of the different weeds.

In some countries, standard products containing prosulfocarb in a formulation containing 800 g/L are authorized at ranges between 3 and 5 L/ha. Susceptibility spectrum for GLOB1913H at 2.6 L/ha is thus also shown below to better reflect local common practices.

Table 3.2-78 and Table 3.2-79 show respectively the overall mean efficacy results of GLOB1913H in 1 application of 3.5 and 4.4 L/ha (this last one in support of the requested rate of 4 L/ha) against grasses and broad leaved weeds. The overall susceptibility level of each weed at the proposed rates is also indicated.

Table 3.2-80 presents separately results from weed species that appeared in just one trial.

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The table below shows the weighted mean from different plant parts assessed (plant and ears) and regardless of the reference product used for the original grouping of means as presented in the tables above in order to calculate the susceptibility level from the highest number of trials available in support of each dose rate.

EPPO zone	Target code	Original grouping	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Nb. Trials	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 2.6-2.7L/ha			PROSULFOCARB 900 EC at 3.5L/ha			PROSULFOCARB 900 EC at 4.4L/ha			Weighted mean at 2.6 L/ha (nb.trials)	Weighted mean at 3.5 L/ha (nb.trials)	Weighted mean at 4 L/ha (nb.trials)	Suscept. Level at 2.6 L/ha**	Suscept. Level at 3.5 L/ha**	Suscept. Level at 4 L/ha**
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn						
MED	ALOMY	vs. Roxy at 5 L/ha	PLANT	13-13	0-10	2	12.0	6-18	12.0	85.0	70-100	85.0	86.9	73.8-100	86.9	91.3	82.5-100	91.3	81.3 (2)	83.1 (2)	87.7 (2)	MS	MS	S
		vs. Roxy at 5 L/ha	EAR	13-13	10-10	1	18.0	18-18	18.0	74.0	74-74	74.0	75.5	75.5-75.5	75.5	80.7	80.7-80.7	80.7						
MED	APESV	vs. Roxy at 5 L/ha	PLANT	12-13	12-13	3	8.1	7.8-8.3	8.3	65.0	60-72.5	62.5	88.3	87.5-90	87.5	92.9	92.5-93.8	92.5	72.2 (6)	86.7 (6)	87.3 (6)	MS	S	S
		vs. Roxy at 5 L/ha late sowing	PLANT	12-14	11-12	2	10.3	7.3-13.3	10.3	48.8	32.5-65	48.8	72.5	65-80	72.5	63.8	55-72.5	63.8						
		vs. Roxy at 4 L/ha	PLANT	13-13	11-11	1	11.0	11-11	11.0	90.3	90.3-90.3	90.3	91.0	91-91	91.0	93.3	93.3-93.3	93.3						
		vs. Roxy at 5 L/ha	EAR	12-13	12-13	3	5.6	5-6.5	5.3	87.8	79.6-95	88.7	95.3	95-95.8	95.0	100.0	100-100	100.0						
		vs. Roxy at 5 L/ha late sowing	EAR	12-14	11-12	2	26.6	22-31.3	26.6	68.0	63.1-73	68.0	84.1	80-88.2	84.1	79.0	74.1-83.8	79.0						
		vs. Roxy at 4 L/ha	EAR	13-13	11-11	1	20.3	20.3-20.3	20.3	84.6	84.6-84.6	84.6	85.1	85.1-85.1	85.1	90.1	90.1-90.1	90.1						
MED	AVESP	vs. Roxy at 4 L/ha late sowing	PLANT	13-13	12-13	2	60.0	7-113	60.0	58.1	51.3-65	58.1	63.8	51.3-76.3	63.8	69.4	55-83.8	69.4	54.6 (3)	68.5 (3)	63.8 (4)	MT	MT	MT
		vs. Roxy at 5 L/ha	PLANT	11-11	0-0	1	8.8	8.8-8.8	8.8	50.0	50-50	50.0	88.8	88.8-88.8	88.8	90.0	90-90	90.0						
		4.4 L vs. Fuga Delta at 0.6 L/ha	PLANT	13-13	0-0	1	6.0	6-6	6.0	-	-	-	-	-	60.0	60-60	60.0							
		vs. Roxy at 4 L/ha late sowing	EAR	13-13	12-13	2	53.1	29.8-76.5	53.1	44.2	14-74.4	44.2	48.8	13.5-84.1	48.8	55.0	19.6-90.4	55.0						
		vs. Roxy at 5 L/ha	EAR	11-11	0-0	1	6.3	6.3-6.3	6.3	73.1	73.1-73.1	73.1	97.2	97.2-97.2	97.2	100.0	100-100	100.0						
		4.4 L vs. Fuga Delta at 0.6 L/ha	EAR	13-13	0-0	1	34.5	34.5-34.5	34.5	-	-	-	-	-	11.3	11.3-11.3	11.3							
MED	LOLMU	vs. Roxy at 5 L/ha	PLANT	12-13	10-13	5	8.5	7.3-11	7.5	61.5	50-70	62.5	77.3	57.5-90	81.3	87.8	66.3-96.3	92.5	69.7 (5)	81.8 (5)	84.6 (7)	MT	MS	MS
		4.4 L vs. Fuga Delta at 0.6 L/ha	PLANT	11-13	11-13	2	7.5	7-8	7.5	-	-	-	-	-	-	80.6	70-91.3	80.6						

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EPPO zone	Target code	Original grouping	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Nb. Trials	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 2.6-2.7l/ha			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 4.4l/ha			Weighted mean at 2.6 L/ha (nb.trials)	Weighted mean at 3.5 L/ha (nb.trials)	Weighted mean at 4 L/ha (nb.trials)	Suscept. Level at 2.6 L/ha**	Suscept. Level at 3.5 L/ha**	Suscept. Level at 4 L/ha**
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn						
		vs. Roxy at 5 L/ha	EAR	12-13	10-13	5	6.8	4.3-11	6.0	77.9	49.3-93.7	90.8	86.3	58.5-97.2	95.0	91.7	64.9-100	100.0						
		4.4 L vs. Fuga Delta at 0.6 L/ha	EAR	11-13	11-13	2	16.6	5.8-27.5	16.6	-	-	-	-	-	-	62.6	25.2-100	62.6						
MED	LOLRI	vs. Roxy at 5 L/ha	PLANT	10-14	10-12	4	33.5	10-60.3	31.8	88.1	77.5-95	90.0	88.1	72.5-96.3	91.9	93.4	90-97.5	93.1	86.4 (4)	86.9 (4)	90.7 (4)	S	S	S
		vs. Roxy at 5 L/ha	EAR	10-14	10-12	4	74.9	43.5-114	71.0	84.6	67.4-95.9	87.6	85.7	75.1-97.2	85.2	88.0	70.9-98.4	91.4						
MED	POAAN	vs. Roxy at 4 L/ha	PLANT	14-14	12-12	1	6.5	6.5-6.5	6.5	97.5	97.5-97.5	97.5	98.5	98.5-98.5	98.5	99.0	99-99	99.0	86.8 (8)	93.5 (8)	96.0 (10)	S	S	HS
		vs. Roxy at 5 L/ha	PLANT	11-13	0-13	7	58.6	10.5-101	72.3	80.5	62.5-100	75.0	91.8	83.8-100	90.0	95.4	90-100	95.0						
		4.4 L vs. Fuga Delta at 0.6 L/ha	PLANT	11-12	0-11	2	32.8	4.8-60.8	32.8	-	-	-	-	-	-	96.3	93.8-98.8	96.3						
		vs. Roxy at 4 L/ha	EAR	14-14	12-12	1	9.3	9.3-9.3	9.3	95.4	95.4-95.4	95.4	95.1	95.1-95.1	95.1	94.4	94.4-94.4	94.4						
		vs. Roxy at 5 L/ha	EAR	12-13	11-13	4	46.9	34.5-53.5	49.9	93.0	91.6-96.2	92.2	94.9	93.3-97.5	94.4	96.0	92.5-98.7	96.5						
		4.4 L vs. Fuga Delta at 0.6 L/ha	EAR	11-11	11-11	1	42.7	42.7-42.7	42.7		-	-	-	-	-	97.7	97.7-97.7	97.7						

\*\*T=Tolerant; MT=Moderately Tolerant; MS=Moderately Susceptible; S=Susceptible; HS=Highly Susceptible

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**Table 3.2-79: Overall efficacy and susceptibility level to GLOB1913H (Prosulfocarb 900 EC) on winter cereals against broad leaved weeds - post-emergence application - Mediterranean EPPO zone**

The table below shows the weighted mean regardless of the reference product used for the original grouping of means as presented in the tables above in order to calculate the susceptibility level from the highest number of trials available in support of each dose rate.

EPPO zone	Target code	Original grouping	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Nb. Trials	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 2.6-2.7l/ha			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 4.4l/ha			Weighted mean at 2.6 L/ha (nb.trials)	Weighted mean at 3.5 L/ha (nb.trials)	Weighted mean at 4 L/ha (nb.trials)	Suscept. Level at 2.6 L/ha**	Suscept. Level at 3.5 L/ha**	Suscept. Level at 4 L/ha**
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn						
MED	CENCY	vs. Roxy at 5 L/ha	PLANT	12-13	12-12	5	12.1	7-29	7.8	68.8	52.5-86.3	70.0	82.0	61.3-90	85.0	86.3	63.8-95	93.8	68.8 (5)	82.0 (5)	86.3 (5)	MT	MS	S
MED	CENDL	vs. Roxy at 5 L/ha late sowing	PLANT	12-14	12-12	2	9.8	9.8-9.8	9.8	50.6	33.8-67.5	50.6	65.0	55-75	65.0	68.8	63.8-73.8	68.8	50.6 (2)	65.0 (2)	68.8 (2)	MT	MT	MT
MED	CHYSE	vs. Roxy at 4 L/ha late sowing	PLANT	13-13	15-15	1	12.0	12-12	12.0	55.0	55-55	55.0	60.0	60-60	60.0	60.0	60-60	60.0	55 (1)	60.0 (1)	60.0 (2)	MT	MT	MT
		4.4 L vs. Fuga Delta at 0.6 L/ha	PLANT	13-13	14-14	1	13.0	13-13	13.0	-	-	-	-	-	-	60.0	60-60	60.0						
MED	CLDAR	vs. Roxy at 4 L/ha late sowing	PLANT	13-13	15-15	1	10.0	10-10	10.0	57.5	57.5-57.5	57.5	58.8	58.8-58.8	58.8	62.5	62.5-62.5	62.5	57.5 (1)	58.8 (1)	61.3 (2)	MT	MT	MT
		4.4 L vs. Fuga Delta at 0.6 L/ha	PLANT	13-13	14-14	1	9.0	9-9	9.0	-	-	-	-	-	-	60.0	60-60	60.0						
MED	GALAP	vs. Roxy at 4 L/ha	PLANT	13-23	18-18	2	12.5	11.5-13.5	12.5	93.5	88-99	93.5	94.5	90-99	94.5	96.0	93-99	96.0	70.8 (9)	80.6 (9)	81.4 (13)	MS	MS	MS
		vs. Roxy at 5 L/ha	PLANT	11-14	0-14	6	13.3	8.8-17.2	13.7	65.4	45-90	67.5	79.4	50-92.5	81.9	84.2	47.5-93.8	90.0						
		4.4 L vs. Fuga Delta at 0.6 L/ha	PLANT	11-13	12-12	2	8.5	6-11	8.5	-	-	-	-	-	-	81.9	70-93.8	81.9						
		vs. Roxy at 4 L/ha late sowing	PLANT	13-13	13-13	1	6.0	6-6	6.0	57.5	57.5-57.5	57.5	60.0	60-60	60.0	62.5	62.5-62.5	62.5						
		vs. Roxy at 5 L/ha late sowing	PLANT	12-14	12-12	2	9.6	9.3-9.8	9.6	-	-	-	-	-	-	67.5	67.5-67.5	67.5						
MED	LAMPU	vs. Roxy at 4 L/ha late sowing	PLANT	13-13	10-10	1	8.0	8-8	8.0	86.3	86.3-86.3	86.3	91.3	91.3-91.3	91.3	95.0	95-95	95.0	90.6 (2)	94.4 (2)	98.3 (3)	S	S	HS
		vs. Roxy at 5 L/ha late sowing	PLANT	23-23	13-13	1	11.8	11.8-11.8	11.8	95.0	95-95	95.0	97.5	97.5-97.5	97.5	100.0	100-100	100.0						
		4.4 L vs. Fuga Delta at 0.6 L/ha	PLANT	12-12	10-10	1	5.5	5.5-5.5	5.5	-	-	-	-	-	-	100.0	100-100	100.0						
MED	MATCH	vs. Roxy at 5 L/ha	PLANT	12-12	10-10	1	37.3	37.3-37.3	37.3	80.0	80-80	80.0	66.7	66.7-66.7	66.7	88.3	88.3-88.3	88.3	68.8 (2)	72.1 (2)	78.5 (2)	MT	MS	MS
		vs. Roxy at 5 L/ha late sowing	PLANT	14-14	12-12	1	21.0	21-21	21.0	57.5	57.5-57.5	57.5	77.5	77.5-77.5	77.5	68.8	68.8-68.8	68.8						
MED	MATIN	vs. Roxy at 5 L/ha	PLANT	11-14	0-12	8	62.4	15-98.5	69.4	43.4	20-67.5	40.6	56.6	21.3-90	61.9	59.4	22.5-96.3	57.5	43.4 (1)	56.6 (1)	66.0 (2)	T	MT	MT

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EPPO zone	Target code	Original grouping	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Nb. Trials	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 2.6-2.7l/ha			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 4.4l/ha			Weighted mean at 2.6 L/ha (nb.trials)	Weighted mean at 3.5 L/ha (nb.trials)	Weighted mean at 4 L/ha (nb.trials)	Suscept. Level at 2.6 L/ha**	Suscept. Level at 3.5 L/ha**	Suscept. Level at 4 L/ha**
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn						
		4,4 L vs. Fuga Delta at 0.6 L/ha	PLANT	11-13	0-12	3	10.6	5.8-14	12.0	-	-	-	-	-	-	83.8	65-96.3	90.0						
MED	PAPRH	vs. Roxy at 4 L/ha	PLANT	12-23	0-16	3	8.0	6.3-11	6.8	59.8	0-91	88.5	59.7	0-93	86.0	62.7	10-95.5	82.5	62.3 (18)	69.3 (18)	73.7 (19)	MT	MT	MS
		vs. Roxy at 5 L/ha	PLANT	10-14	0-13	12	36.0	6-84.5	31.0	64.0	30-93.8	60.0	71.8	25-95	76.9	76.9	30-100	83.1						
		4,4 L vs. Fuga Delta at 0.6 L/ha	PLANT	11-11	12-12	1	60.8	60.8-60.8	60.8	-	-	-	-	-	-	72.5	72.5-72.5	72.5						
		vs. Roxy at 4 L/ha late sowing	PLANT	13-13	14-14	1	8.0	8-8	8.0	56.3	56.3-56.3	56.3	60.0	60-60	60.0	62.5	62.5-62.5	62.5						
		vs. Roxy at 5 L/ha late sowing	PLANT	12-14	11-12	2	8.3	7.5-9	8.3	58.8	33.8-83.8	58.8	73.8	58.8-88.8	73.8	76.9	53.8-100	76.9						
MED	SINAR	vs. Roxy at 4 L/ha late sowing	PLANT	13-13	14-14	1	11.0	11-11	11.0	57.5	57.5-57.5	57.5	61.3	61.3-61.3	61.3	62.5	62.5-62.5	62.5	57.5 (1)	61.3 (1)	76.3 (2)	MT	MT	MS
		4,4 L vs. Fuga Delta at 0.6 L/ha	PLANT	13-13	14-14	1	8.0	8-8	8.0	-	-	-	-	-	-	90.0	90-90	90.0						
MED	STEME	vs. Roxy at 4 L/ha	PLANT	13-14	12-14	2	25.8	22.5-29	25.8	87.0	81.5-92.5	87.0	89.4	83.3-95.5	89.4	90.9	84.5-97.3	90.9	77.4 (10)	85.0 (10)	88.2 (14)	MS	S	S
		vs. Roxy at 5 L/ha	PLANT	10-13	0-14	8	43.5	5-83.7	53.1	75.0	55-100	66.3	83.9	60-100	81.9	90.7	75-100	90.0						
		4,4 L vs. Fuga Delta at 0.6 L/ha	PLANT	11-13	0-13	3	20.5	6.8-44.8	10.0	-	-	-	-	-	-	87.7	70-100	93.1						
		vs. Roxy at 5 L/ha late sowing	PLANT	12-12	12-12	1	9.0	9-9	9.0	-	-	-	-	-	-	63.8	63.8-63.8	63.8						
MED	IVERG	vs. Roxy at 4 L/ha	PLANT	23-23	21-21	1	13.5	13.5-13.5	13.5	99.0	99-99	99.0	99.0	99-99	99.0	99.0	99-99	99.0	85.5 (8)	86.9 (8)	89.4 (8)	S	S	S
		vs. Roxy at 5 L/ha	PLANT	13-13	10-12	2	7.4	7-7.8	7.4	90.6	81.3-100	90.6	91.3	82.5-100	91.3	90.0	80-100	90.0						
		vs. Roxy at 4 L/ha late sowing	PLANT	13-13	10-13	3	74.0	7-117	98.0	74.6	57.5-83.8	82.5	80.4	60-92.5	88.8	85.0	62.5-97.5	95.0						
		vs. Roxy at 5 L/ha late sowing	PLANT	23-23	17-17	2	32.2	19.5-44.8	32.2	90.0	80-100	90.0	86.3	77.5-95	86.3	90.6	81.3-100	90.6						

\*\*T= Tolerant; MT= Moderately Tolerant; MS= Moderately Susceptible; S= Susceptible; HS= Highly Susceptible

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**Table 3.2-80: Overall efficacy and susceptibility level to GLOB1913H (Prosulfocarb 900 EC) on winter cereals against weeds which occurred in only one trial - post-emergence application - Mediterranean EPPO zone**

EPPO zone	Target code	Crop code	Original grouping	Part Rated	Crop BBCH at appl.	Weed BBCH at appl.	Nb. Trials	Infestation in the untreated control (PLANT/M2)			PROSULFOCARB 900 EC at 2.6-2.7l/ha			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 4.4l/ha			Suscept. Level at 2.6 L/ha**	Suscept. Level at 3.5 L/ha**	Suscept. Level at 4.4 L/ha**
								Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn			
Grasses																						
MED	LOLPE	YCERE	vs. Roxy at 5 L/ha	EAR	12-12	12-12	1	53.5	53.5-53.5	53.5	98.9	98.9-98.9	98.9	99.0	99-99	99.0	100.0	100-100	100.0	HS	HS	HS
Broad leaved																						
MED	ANGAR	YCERE	vs. Roxy at 5 L/ha late sowing	PLANT	12-12	12-12	1	13.8	13.8-13.8	13.8	32.5	32.5-32.5	32.5	60.0	60-60	60.0	55.0	55-55	55.0	T	MT	MT
MED	DIPMU	YCERE	vs. Roxy at 5 L/ha late sowing	PLANT	14-14	12-12	1	8.8	8.8-8.8	8.8	61.3	61.3-61.3	61.3	70.0	70-70	70.0	71.3	71.3-71.3	71.3	MT	MS	MS
MED	FUMOF	YCERE	vs. Roxy at 5 L/ha	PLANT	23-23	14-14	1	6.3	6.3-6.3	6.3	88.8	88.8-88.8	88.8	93.8	93.8-93.8	93.8	95.0	95-95	95.0	S	S	HS
MED	GERDI	YCERE	vs. Roxy at 4 L/ha late sowing	PLANT	13-13	12-12	1	53.0	53-53	53.0	76.3	76.3-76.3	76.3	81.3	81.3-81.3	81.3	83.8	83.8-83.8	83.8	MS	MS	MS
MED	LAMAM	YCERE	vs. Roxy at 5 L/ha	PLANT	14-14	11-11	1	33.3	33.3-33.3	33.3	41.3	41.3-41.3	41.3	40.0	40-40	40.0	36.3	36.3-36.3	36.3	T	T	T
MED	VIOAR	YCERE	vs. Roxy at 5 L/ha	PLANT	12-12	0-0	1	71.0	71-71	71.0	0.0	0-0	0.0	0.0	0-0	0.0	5.0	5-5	5.0	T	T	T

\*\*T=Tolerant; MT=Moderately Tolerant; MS=Moderately Susceptible; S=Susceptible; HS=Highly Susceptible

### 3.2.3.2 Weed control on potatoes

In total, 25 efficacy trials were submitted to demonstrate the efficacy of GLOB1913H for the use on winter cereals. These trials were carried out between 2018 and 2020 by GEP certified research institutions in the Czech Republic, France, Germany, and the Netherlands (12 trials belonging to the Maritime EPPO Zone), in Poland, Latvia and Estonia (8 trials belonging to the North-East EPPO Zone), in the eastern part of Croatia and Hungary (3 trials belonging to the South-East EPPO Zone), as well as in Italy (2 trials belonging to the Mediterranean EPPO Zone).

#### Trial methodology

Information on trial methodology is summarized in Table 3.2-81, Table 3.2-82, Table 3.2-83 and Table 3.2-84. Trial site information and application details are presented in Appendix 3 of the Biological Assessment Dossier.

All trials were carried out by testing facilities, or organisations, officially recognised as competent to perform efficacy testing in accordance with the requirements of Directive 93/71/EEC, and with the principles of GEP. Copies of certificates can be found in Appendix 4 of the Biological Assessment dossier.

According to the EPPO reference standard PP 1/51(3) Weeds in potato, the first assessment was performed shortly after weed emergence (about BBCH 12-14) followed by assessments 2 weeks after, around BBCH 39 (June-July - summarized), and shortly before harvest. Assessments on the weeds population were performed in terms of plant counting as well as soil coverage.

Data were subjected to analysis of variance (ANOVA) at the 95% confidence level. When significant differences were found a Student-Newman-Keuls (SNK) Post-Hoc test was applied to separate the means. Treatment means with no letters in common are significantly different according to SNK test. Where no letter is presented no difference was registered among treatments.

The most important period for weed control on potatoes is when weeds are accessible to treatment, up to 6-8 weeks after crop emergence, when the crop canopy close and shade further weed emergence. Therefore, the percentage of visual control at the assessment performed about BBCH 39 of the crop, and corresponding to the period June-July containing enough weeds per square meters were summarized below for each weed. The selected assessment was at about 6-8 weeks after application, although due to diverse crop development, in very few cases, it might have taken place earlier or later in terms of days after the application.

The minimum population of 5 plants/m<sup>2</sup> was considered for validation of the trial and assessment timing. Other assessments not considered for means calculation are presented shaded in grey. The number of trials where product is >, <, = compared to standards is provided orthogonally.

The levels of weed control are displayed in summary tables reflecting the common EU scale as reported in the guidance SANCO/10055/2013 Rev. 4:

Weed species susceptibility	Level of control
Highly Susceptible (HS)	95 - 100 %
Susceptible (S)	85 - 94.9 %
Moderately Susceptible (MS)	70 - 84.9%

Moderately Tolerant (MT)	50 - 69.9%
Tolerant (T)	0 - 49.9 %

**Table 3.2-81: Details on trial methodology – Maritime EPPO zone**

<b>Guidelines</b>	General guidelines	PP 1/135(4), EPPO PP 1/152 (4), PP 1/181(4)
	Specific guidelines	PP 1/51(3)
<b>Experimental design</b>	Plot design	RCBD (12)
	Plot size	12-30 m <sup>2</sup>
	Number of replications	4 (12)
<b>Crop</b>	Trials per crop	potato (12)
	Varieties per crop	Anuschka Artus Bintje Dali Goldmarie Kapta Lady Rosetta Madison Sirtema Stemster
	Sowing period	16/04-31/05
<b>Application</b>	Crop stage majority (BBCH) at application	Pre-emergence (00-08)
	Timing Pest stage majority (BBCH) at application	Pre-emergence
	Number of applications	1
	Intervals between applications	-
	Spray volumes	200-300 L/ha
<b>Assessment</b>	Assessment types	% of weed coverage, number of weeds/m <sup>2</sup> , number of ears/m <sup>2</sup> , % control (on plant density), % phytotoxicity
	Assessment dates	First preliminary assessment at application timing. Depending on the trial, further assessments at: shortly after weed emergence (BBCH 12-14) and 2 weeks after that, around BBCH 39 (June-July - SUMMARIZED), and shortly before harvest.
<b>Other relevant information</b>	Soil types	clay loam, fine loam, loamy sand sand, sandy clay, sandy loam, silty clay
	Natural / artificial inoculation	Natural infestation
	Field / Greenhouse	Field conditions

**Table 3.2-82: Details on trial methodology – North-East EPPO zone**

<b>Guidelines</b>	General guidelines	PP 1/135(4), EPPO PP 1/152 (4), PP 1/181(4)
	Specific guidelines	PP 1/51(3)
<b>Experimental design</b>	Plot design	RCBD (8)
	Plot size	15-28 m <sup>2</sup>
	Number of replications	4 (8)
<b>Crop</b>	Trials per crop	potato (8)
	Varieties per crop	Bellarosa Gala Kuras Lilly Melody Solist Teele
	Sowing period	10/04-27/05
<b>Application</b>	Crop stage majority (BBCH) at application	Pre-emergence (00-08)
	Timing Pest stage majority (BBCH) at application	Pre-emergence
	Number of applications	1
	Intervals between applications	-
	Spray volumes	200-300 L/ha
<b>Assessment</b>	Assessment types	% of weed coverage, number of weeds/m <sup>2</sup> , number of ears/m <sup>2</sup> , % control (on plant density), % phytotoxicity
	Assessment dates	First preliminary assessment at application timing. Depending on the trial, further assessments at: shortly after weed emergence (BBCH 12-14) and 2 weeks after that, around BBCH 39 (June-July - SUMMARIZED), and shortly before harvest.
<b>Other relevant information</b>	Soil types	calcareous clay loam, loamy sand, sand, sandy loam, silt loam
	Natural / artificial inoculation	Natural infestation
	Field / Greenhouse	Field conditions

**Table 3.2-83: Details on trial methodology – South-East EPPO zone**

<b>Guidelines</b>	General guidelines	PP 1/135(4), EPPO PP 1/152 (4), PP 1/181(4)
	Specific guidelines	PP 1/51(3)
<b>Experimental design</b>	Plot design	RCBD (3)
	Plot size	15-30 m <sup>2</sup>
	Number of replications	4 (3)
<b>Crop</b>	Trials per crop	potato (3)
	Varieties per crop	Opal, Desiree, Red scarlet
	Sowing period	07-25/04
<b>Application</b>	Crop stage majority (BBCH) at application	Pre-emergence (00-08)
	Timing	
	Pest stage majority (BBCH) at application	Pre-emergence
	Number of applications	1
	Intervals between applications	-
	Spray volumes	200-333 L/ha
<b>Assessment</b>	Assessment types	% of weed coverage, number of weeds/m <sup>2</sup> , number of ears/m <sup>2</sup> , % control (on plant density), % phytotoxicity
	Assessment dates	First preliminary assessment at application timing. Depending on the trial, further assessments at: shortly after weed emergence (BBCH 12-14) and 2 weeks after that, around BBCH 39 (June-July - SUMMARIZED), and shortly before harvest.
<b>Other relevant information</b>	Soil types	clay loam, fine clay loam, sand
	Natural / artificial inoculation	Natural infestation
	Field / Greenhouse	Field conditions

**Table 3.2-84: Details on trial methodology – Mediterranean EPPO zone**

<b>Guidelines</b>	General guidelines	PP 1/135(4), EPPO PP 1/152 (4), PP 1/181(4)
	Specific guidelines	PP 1/51(3)
<b>Experimental design</b>	Plot design	RCBD (2)
	Plot size	15-21 m <sup>2</sup>
	Number of replications	4 (2)
<b>Crop</b>	Trials per crop	potato (2)
	Varieties per crop	Spunta, Arizona
	Sowing period	11/06-02/08
<b>Application</b>	Crop stage majority (BBCH) at application	Pre-emergence (00-08)
	Timing	
	Pest stage majority (BBCH) at application	Pre-emergence
	Number of applications	1
	Intervals between applications	-
	Spray volumes	200 L/ha
<b>Assessment</b>	Assessment types	% of weed coverage, number of weeds/m <sup>2</sup> , % control (on plant density), % phytotoxicity

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	Assessment dates	First preliminary assessment at application timing. Depending on the trial, further assessments at: shortly after weed emergence (BBCH 12-14) and 2 weeks after that, around BBCH 39 (June-July - SUMMARIZED), and shortly before harvest.
<b>Other relevant information</b>	Soil types	loamy sand, sandy loam
	Natural / artificial inoculation	Natural infestation
	Field / Greenhouse	Field conditions

### Maritime EPPO zone

A total of 12 trials were carried out in the Maritime EPPO Zone to evaluate the efficacy of GLOB1913H for the control of weeds on potatoes. Those trials have been conducted between 2018 and 2020 in the Czech Republic, France, Germany, and the Netherlands.

Trials in the Maritime EPPO zone included different rates of the test product, namely 1.6, 2.6 and 4.4 L/ha. Nevertheless, having tested a higher and a lower dose rate (4.4 and 2.6 L/ha) it is reasonable to consider that practical efficacy at the rate of 3.5 L/ha will lay somewhere in between those values.

As a lower dose rate was included in all trials, these results are also presented in detail under point 3.2.3 Efficacy tests but summarized and discussed above under point 3.2.2 Minimum effective dose tests.

During the trials, a total of 3 different grass weed species and 20 different broad leaved weed species were assessed.

Boxer, Roxy or Defi (all prosulfocarb 800 g/L formulations) were included in all trials at authorized label rates (5 L/ha) as a uniform reference, applying nearly the same amount of prosulfocarb as GLOB1913H.

The percentage of visual control at the assessment performed about BBCH 39 of the crop containing enough weeds per square meters were summarized below for each weed. The minimum population of 5 plants/m<sup>2</sup> was considered for validation of the trial and assessment timing.

Data were summarized at the end of each table by an orthogonal comparison of the control achieved by the tested dose rates of GLOB1913H to Boxer, Roxy or Defi across all trials (grouping “All”). The lowest dose rate of 1.6 L/ha was not tested in all trials and therefore, where a lower number of trials contributed to the mean, this number (n) is indicated. The number of trials where GLOB1913H at the requested rate is >, <, = compared to the reference standard is provided.

The color scheme used to classify the levels of weed control are described above in section 3.2.3 Efficacy tests (KCP 6.2).

## Results

## Grass weeds

**Table 3.2-85: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Alopecurus myosuroides* (ALOMY) – Maritime EPPo zone**

EPPO zone	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 1.6 L/ha			GLOB1913H at 2.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer/Roxy/Defi at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
MAR	ALOMY	1	All	39.0	30.0	56.0	51.8	-	-	64.5	-	-	86.0	-	-	87.5	-	-	81.5	-	-	1x>

**Table 3.2-86: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Echinochloa crus-galli* (ECHCG) – Maritime EPPO zone**

Eppo zone	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 1.6 L/ha			GLOB1913H at 2.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer/Roxy/Defi at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
MAR	ECHCG	9	All	19-39	11-65	33-71	27.3	5.3-103	11.0	53 (n=5)	17.5-76.3	66.3	56.0	25-96.8	57.5	61.3	22.5-100	57.5	56.0	22.5-76.3	62.5	2x<,5x=,2x>

**Table 3.2-87: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Poa annua* (POAAN) – Maritime EPP0 zone**

EPPO zone	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 1.6 L/ha			GLOB1913H at 2.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer/Roxy/Defi at 5 L/ha			N° trials where product is >, <, = compared to standard
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	

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																							[5% cutoff]
MAR	POAAN	1	All	39	31	39	15	-	-	87.5	-	-	93.8	-	-	100.0	-	-	100.0	-	-	-	1x=

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### Broad leaved weeds

**Table 3.2-88: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Aethusa cynapium* (AETCY) – Maritime EPPO zone**

EPPO zone	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 1.6 L/ha			GLOB1913H at 2.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer/Roxy/Defi at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
MAR	AETCY	1	All	39.0	14.0	56.0	39.1	-	-	60.0	-	-	78.0	-	-	84.5	-	-	76.3	-	-	1x>

**Table 3.2-89: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Amaranthus retroflexus* (AMARE) – Maritime EPPO zone**

EPPO zone	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 1.6 L/ha			GLOB1913H at 2.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer/Roxy/Defi at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
MAR	AMARE	1	All	39-39	31-31	40-40	80.0	80-80	80.0	-	-	-	73.8	73.8-73.8	73.75	77.5	77.5-77.5	77.5	80.0	80-80	80	1x=

**Table 3.2-90: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Ammi majus* (AMIMA) – Maritime EPPO zone**

EPPO zone	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 1.6 L/ha			GLOB1913H at 2.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer/Roxy/Defi at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
MAR	AMIMA	1	All	39.0	14.0	56.0	13.3	-	-	61.3	-	-	76.3	-	-	83.8	-	-	75.5	-	-	1x>



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**Table 3.2-91: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Chenopodium album* (CHEAL) – Maritime EPPO zone**

EPPO zone	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 1.6 L/ha			GLOB1913H at 2.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer/Roxy/Defi at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
MAR	CHEAL	11	All	38-69	14-89	39-71	17.6	4.8-43	10.0	64.3 (n=7)	6.3-100	76.3	61.9	25.3-100	65.0	78.1	52.5-100	78.8	77.5	60-96.5	75.0	4x<,3x=,4x>

**Table 3.2-92: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Erodium cicutarium* (EROCI) – Maritime EPPO zone**

EPPO zone	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 1.6 L/ha			GLOB1913H at 2.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer/Roxy/Defi at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
MAR	EROCI	1	All	39	65	39	5.0	-	-	80.0	-	-	91.3	-	-	100.0	-	-	80.0	-	-	1x>

**Table 3.2-93: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Fumaria officinalis* (FUMOF) – Maritime EPPO zone**

EPPO zone	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 1.6 L/ha			GLOB1913H at 2.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer/Roxy/Defi at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
MAR	FUMOF	1	All	39	89	43	6	-	-	80.0	-	-	87.5	-	-	92.5	-	-	78.8	-	-	1x>

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**Table 3.2-94: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Galeopsis tetrahit* (GAETE) – Maritime EPPO zone**

EPPO zone	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 1.6 L/ha			GLOB1913H at 2.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer/Roxy/Defi at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
MAR	GAETE	1	All	39	51	39	13.75	-	-	100.0	-	-	100.0	-	-	100.0	-	-	100.0	-	-	1x=

**Table 3.2-95: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Geranium pusillum* (GERPU) – Maritime EPPO zone**

EPPO zone	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 1.6 L/ha			GLOB1913H at 2.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer/Roxy/Defi at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
MAR	GERPU	1	All	39-39	89-89	43-43	6.0	6-6	6.0	88.8	88.8-88.8	88.8	91.3	91.3-91.3	91.3	96.3	96.3-96.3	96.3	95.0	95-95	95.0	1x=

**Table 3.2-96: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Lamium purpureum* (LAMPU) – Maritime EPPO zone**

EPPO zone	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 1.6 L/ha			GLOB1913H at 2.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer/Roxy/Defi at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
MAR	LAMPU	1	All	39.0	61.0	63.0	14.8	-	-	88.8	-	-	98.5	-	-	97.3	-	-	96.0	-	-	1x=

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**Table 3.2-97: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Tripleurospermum inodorum* (MATIN) – Maritime EPPO zone**

EPPO zone	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 1.6 L/ha			GLOB1913H at 2.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer/Roxy/Defi at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
MAR	MATIN	2	All	39-39	51-51	39-43	10.3	9.5-11	10.3	65.0	50-80	65.0	75.0	65-85	75.0	81.3	77.5-85	81.3	92.5	85-100	92.5	1x<, 1x=

**Table 3.2-98: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Mercurialis annua* (MERAN) – Maritime EPPO zone**

EPPO zone	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 1.6 L/ha			GLOB1913H at 2.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer/Roxy/Defi at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
MAR	MERAN	1	All	39	51	62	13	-	-	17.5	-	-	15.0	-	-	25.0	-	-	42.5	-	-	1x<

**Table 3.2-99: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Fallopia convolvulus* (POLCO) – Maritime EPPO zone**

EPPO zone	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 1.6 L/ha			GLOB1913H at 2.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer/Roxy/Defi at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
MAR	POLCO	2	All	39-39	55-65	60-62	13.0	5-21	13.0	17.5	12.5-22.5	17.5	45.0	27.5-62.5	45.0	57.5	22.5-92.5	57.5	68.5	42.5-94.5	68.5	1x<, 1x=

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**Table 3.2-100: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against of GLOB1913H against *Persicaria lapathifolia* (POLLA) – Maritime EPPO zone**

EPPO zone	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 1.6 L/ha			GLOB1913H at 2.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer/Roxy/Defi at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
MAR	POLLA	1	All	39	33	39	5	-	-	60.0	-	-	75.0	-	-	95.0	-	-	93.8	-	-	1x=

**Table 3.2-101: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against of GLOB1913H against *Senecio vulgaris* (SENVU) – Maritime EPPO zone**

EPPO zone	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 1.6 L/ha			GLOB1913H at 2.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer/Roxy/Defi at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
MAR	SENVU	1	All	39	65	63	9.5	-	-	40.0	-	-	69.8	-	-	88.8	-	-	82.5	-	-	1x>

**Table 3.2-102: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against of GLOB1913H against *Solanum nigrum* (SOLNI) – Maritime EPPO zone**

EPPO zone	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 1.6 L/ha			GLOB1913H at 2.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer/Roxy/Defi at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
MAR	SOLNI	7	All	35-39	16-79	35-69	28.4	5-99.5	14.0	74.0 (n=4)	67.5-78	75.3	64.9	10-81.8	77.5	70.8	18.8-92.8	80.0	72.3	7.5-92.8	84.5	2x<, 2x=3x>

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**Table 3.2-103: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against of GLOB1913H against *Stellaria media* (STEME) – Maritime EPPO zone**

EPPO zone	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 1.6 L/ha			GLOB1913H at 2.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer/Roxy/Defi at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
MAR	STEME	1	All	39-39	61-61	63-63	80.5	80.5-80.5	80.5	90.0	90-90	90.0	97.3	97.3-97.3	97.3	98.3	98.3-98.3	98.3	97.0	97-97	97.0	1x=

**Table 3.2-104: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Thlaspi arvense* (THLAR) – Maritime EPPO zone**

EPPO zone	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 1.6 L/ha			GLOB1913H at 2.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer/Roxy/Defi at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
MAR	THLAR	2	All	39-39	71-89	39-43	18.5	7-30	18.5	96.3	92.5-100	96.3	96.9	93.8-100	96.9	98.8	97.5-100	98.8	93.1	91.3-95	93.1	1x=, 1x>

**Table 3.2-105: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Urtica urens* (URTUR) – Maritime EPPO zone**

EPPO zone	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 1.6 L/ha			GLOB1913H at 2.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer/Roxy/Defi at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
MAR	URTUR	1	All	39	55	63	150	-	-	52.3	-	-	60.0	-	-	86.0	-	-	80.0	-	-	1x>

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**Table 3.2-106: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Veronica persica* (VERPE) – Maritime EPPO zone**

EPPO zone	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 1.6 L/ha			GLOB1913H at 2.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer/Roxy/Defi at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
MAR	VERPE	1	All	39	65	39	21.25	-	-	100.0	-	-	100.0	-	-	100.0	-	-	100.0	-	-	1x=

**Table 3.2-107: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Viola arvensis* (VIOAR) – Maritime EPPO zone**

EPPO zone	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 1.6 L/ha			GLOB1913H at 2.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer/Roxy/Defi at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
MAR	VIOAR	1	All	39-39	65-65	39-39	17.5	17.5-17.5	17.5	55.0	55-55	55.0	70.0	70-70	70.0	82.5	82.5-82.5	82.5	75.0	75-75	75.0	1x>

## Conclusion

A total of 12 trials were carried out in the Maritime EPPO Zone to evaluate the efficacy of GLOB1913H for the control of weeds on potatoes. Those trials have been conducted between 2018 and 2020 in the Czech Republic, France, Germany, and the Netherlands.

Trials in the Maritime EPPO zone included different rates of the test product, namely 1.6, 2.6 and 4.4 L/ha. Nevertheless, having tested a higher and a lower dose rate (4.4 and 2.6 L/ha) it is reasonable to consider that practical efficacy at the rate of 3.5 L/ha will lay somewhere in between those values.

Data demonstrated that the efficacy of GLOB1913H at the proposed rate of 4.4 L/ha was in general equivalent to the efficacy of standard products Boxer, Roxy or Defi (all prosulfocarb 800 g/L formulations) applying nearly the same amount of prosulfocarb as GLOB1913H. In particular, against some weeds as e.g. MATIN and THLAR, GLOB1913H provided already a good control at lower rates and support the target rate of 3.5 L/ha.

Moreover, typical weed control schemes consist of a mixture of different active ingredients with different modes of action in order to lower the risk for development of resistance, where prosulfocarb is generally used at lower rates. In these conditions, GLOB1913H will provide a valuable tool following label recommendations.

Generally, these results also confirm the results obtained from other EPPO climatic zones.

From the presented results it can be clearly concluded that key weeds commonly populating potato fields are susceptible to GLOB1913H applied at the maximum proposed rate of 4.4 L/ha. As results are strongly linked to the weed species, reference is made to the tables below showing the susceptibility spectrum of the different weeds.

Still, from the presented results it can be concluded that performance of GLOB1913H (900 g/L of prosulfocarb) is in general comparable with existing formulations based on 800 g/L of prosulfocarb and thus, according to PP 1/307(2), allows extrapolation to the complete associated claims/uses for the authorized products e.g. Roxy 800 EC and the underlying supporting data.

In some countries, standard products containing prosulfocarb in a formulation containing 800 g/L are authorized at ranges between 3 and 5 L/ha. Susceptibility spectrum for GLOB1913H at 2.6-3.5 and 4.4 L/ha is thus also shown below to better reflect local common practices.

Table 3.2-108 and Table 3.2-109 show respectively the overall mean efficacy results of GLOB1913H in 1 application of 1.6-1.7 L/ha, 2.6 and 4.4 L/ha against grasses and broad leaved weeds compared to the reference standards. The number of trials on which each result is based is also shown. The lowest dose rate of 1.6 L/ha was not tested in all trials and therefore, where a lower number of trials contributed to the mean, this number (n) is indicated.

Table 3.2-110 presents separately results from some grasses and broad leaved weed species that appeared in just one trial.

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**Table 3.2-108: Overall efficacy and susceptibility level to GLOB1913H (Prosulfocarb 900 EC) on potatoes against grasses- Maritime EPPO zone**

EPPO zone	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 1.6 L/ha			GLOB1913H at 2.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer/Roxy/Defi at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]	Suscept. Level at 2.6-3.5 L/ha*	Suscept. Level at 4.4L/ha*
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn			
MAR	ECHCG	9	All	19-39	11-65	33-71	27.3	5.3-103	11.0	53 (n=5)	17.5-76.3	66.3	56.0	25-96.8	57.5	61.3	22.5-100	57.5	56.0	22.5-76.3	62.5	2x<,5x=,2x>	MT	MT

\*T=Tolerant; MT=Moderately Tolerant; MS=Moderately Susceptible; S=Susceptible; HS=Highly Susceptible. Where data not available at specific rate, reference is made to control reached at the closest lower tested rate.

**Table 3.2-109: Overall efficacy and susceptibility level to GLOB1913H (Prosulfocarb 900 EC) at the target rate of 4.4 L/ha on potatoes against broad leaved weeds- Maritime EPPO zone**

EPPO zone	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 1.6 L/ha			GLOB1913H at 2.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer/Roxy/Defi at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]	Suscept. Level at 2.6-3.5 L/ha*	Suscept. Level at 4.4L/ha*
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn			
MAR	CHEAL	11	All	38-69	14-89	39-71	17.6	4.8-43	10.0	64.3 (n=7)	6.3-100	76.3	61.9	25.3-100	65.0	78.1	52.5-100	78.8	77.5	60-96.5	75.0	4x<,3x=,4x>	MT	MS
MAR	MATIN	2	All	39-39	51-51	39-43	10.3	9.5-11	10.3	65.0	50-80	65.0	75.0	65-85	75.0	81.3	77.5-85	81.3	92.5	85-100	92.5	1x<,1x=	MS	MS
MAR	POLCO	2	All	39-39	55-65	60-62	13.0	5-21	13.0	17.5	12.5-22.5	17.5	45.0	27.5-62.5	45.0	57.5	22.5-92.5	57.5	68.5	42.5-94.5	68.5	1x<,1x=	T	MT
MAR	SOLNI	7	All	35-39	16-79	35-69	28.4	5-99.5	14.0	74.0 (n=4)	67.5-78	75.3	64.9	10-81.8	77.5	70.8	18.8-92.8	80.0	72.3	7.5-92.8	84.5	2x<,2x=3x>	MT	MS
MAR	THLAR	2	All	39-39	71-89	39-43	18.5	7-30	18.5	96.3	92.5-100	96.3	96.9	93.8-100	96.9	98.8	97.5-100	98.8	93.1	91.3-95	93.1	1x=,1x>	HS	HS

\*T=Tolerant; MT=Moderately Tolerant; MS=Moderately Susceptible; S=Susceptible; HS=Highly Susceptible. Where data not available at specific rate, reference is made to control reached at the closest lower tested rate.

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**Table 3.2-110: Overall efficacy and susceptibility level to GLOB1913H (Prosulfocarb 900 EC) at the target rate of 4.4 L/ha on potatoes against grasses and broad leaved weeds which occurred in only one trial- Maritime EPPO zone**

EPPO zone	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 1.6 L/ha			GLOB1913H at 2.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer/Roxy/Defi at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]	Suscept. Level at 2.6-3.5 L/ha*	Suscept. Level at 4.4L/ha*
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn			
MAR	ALOMY	1	All	39	30	56	51.8	-	-	64.5	-	-	86.0	-	-	87.5	-	-	81.5	-	-	1x>	S	S
MAR	POAAN	1	All	39	31	39	15	-	-	87.5	-	-	93.8	-	-	100.0	-	-	100.0	-	-	1x=	S	HS
MAR	AETCY	1	All	39	14	56	39.1	-	-	60.0	-	-	78.0	-	-	84.5	-	-	76.3	-	-	1x>	MS	MS
MAR	AMARE	1	All	39	31	40	80.0	-	-	-	-	-	73.8	-	-	77.5	-	-	80.0	-	-	1x=	MS	MS
MAR	AMIMA	1	All	39	14	56	13.3	-	-	61.3	-	-	76.3	-	-	83.8	-	-	75.5	-	-	1x>	MS	MS
MAR	EROCI	1	All	39	65	39	5.0	-	-	80.0	-	-	91.3	-	-	100.0	-	-	80.0	-	-	1x>	S	HS
MAR	FUMOF	1	All	39	89	43	6	-	-	80.0	-	-	87.5	-	-	92.5	-	-	78.8	-	-	1x>	S	S
MAR	GAETE	1	All	39	51	39	13.8	-	-	100.0	-	-	100.0	-	-	100.0	-	-	100.0	-	-	1x=	HS	HS
MAR	GERPU	1	All	39	89	43	6.0	-	-	88.8	-	-	91.3	-	-	96.3	-	-	95.0	-	-	1x=	S	HS
MAR	LAMPU	1	All	39	61	63	14.8	-	-	88.8	-	-	98.5	-	-	97.3	-	-	96.0	-	-	1x=	HS	HS
MAR	MERAN	1	All	39	51	62	13	-	-	17.5	-	-	15.0	-	-	25.0	-	-	42.5	-	-	1x<	T	T
MAR	POLLA	1	All	39	33	39	5	-	-	60.0	-	-	75.0	-	-	95.0	-	-	93.8	-	-	1x=	MS	HS
MAR	SENVU	1	All	39	65	63	9.5	-	-	40.0	-	-	69.8	-	-	88.8	-	-	82.5	-	-	1x>	MT	S
MAR	STEME	1	All	39	61	63	80.5	-	-	90.0	-	-	97.3	-	-	98.3	-	-	97.0	-	-	1x=	HS	HS
MAR	URTUR	1	All	39	55	63	150	-	-	52.3	-	-	60.0	-	-	86.0	-	-	80.0	-	-	1x>	MT	S
MAR	VERPE	1	All	39	65	39	21.25	-	-	100.0	-	-	100.0	-	-	100.0	-	-	100.0	-	-	1x=	HS	HS
MAR	VIOAR	1	All	39	65	39	17.5	-	-	55.0	-	-	70.0	-	-	82.5	-	-	75.0	-	-	1x>	MS	MS

\*T=Tolerant; MT=Moderately Tolerant; MS=Moderately Susceptible; S=Susceptible; HS=Highly Susceptible. Where data not available at specific rate, reference is made to control reached at the closest lower tested rate.

### North-East EPPO Zone

A total of 8 trials were carried out in the North-East EPPO Zone to evaluate the efficacy of GLOB1913H for the control of weeds on potatoes. Those trials have been conducted between 2019 and 2020 in Poland, Estonia and Latvia.

In support of authorization in the Central zone, the results of all trials conducted in the North-East climatic zone were combined with the results of the German and Czech trials (6 trials) since these are neighbouring countries and considered as valid to Poland, the only MS in the Central zone belonging to the North-East climatic zone. The combined results from 14 trials are thus shown in separate tables below.

In trials conducted in the Northern zone (Estonia and Latvia), tested dose rate represents the common practice for prosulfocarb, currently authorized at the dose rate of 3200 g a.s./ha (e.g. Boxer 800 EC at 4 L/ha). Therefore, GLOB1913H was tested at 3.6 L/ha in those countries and at 4.4 L/ha in Poland, as common practice in the Central zone. Nevertheless, having tested a higher and a lower dose rate (4.4 and 2.6 L/ha) in Poland, it is reasonable to consider that practical efficacy at the rate of 3.5 L/ha will lay somewhere in between those values.

As a lower dose rate was included in all trials, these results are also presented in detail under point 3.2.3 Efficacy tests but summarized and discussed above under point 3.2.2 Minimum effective dose tests.

During the trials, a total of 3 different grass weed species and 25 different broad leaved weed species were assessed.

Boxer (prosulfocarb 800 g/L) was included in all trials at authorized label rates (4 to 5 L/ha) as a uniform reference, applying nearly the same amount of prosulfocarb as GLOB1913H tested rates.

The percentage of visual control at the assessment performed about BBCH 39 of the crop containing enough weeds per square meters were summarized below for each weed. The minimum population of 5 plants/m<sup>2</sup> was considered for validation of the trial and assessment timing.

Data were summarized at the end of each table by an orthogonal comparison of the control achieved by the tested dose rates of GLOB1913H to a similar rate of Boxer. The number of trials where GLOB1913H at 3.6 or 4.4 L/ha is >, <, = compared to the corresponding rate of the reference standard is provided.

The color scheme used to classify the levels of weed control are described above in section 3.2.3 Efficacy tests (KCP 6.2).

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## Results

### Grass weeds

**Table 3.2-111: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Elymus repens* (AGRRE) – North-East EPPO zone**

EPPO zone/ Country	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 2.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
NE	AGRRE	1	All 4.4 L vs. Std	39	37	39	10.0	-	-	25.0	-	-	47.5	-	-	50.0	-	-	1x=

**Table 3.2-112: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Echinochloa crus-galli* (ECHCG) – North-East EPPO zone**

Means valid for Poland (when available, CZ and DE trials included in mean calculation)

EPPO zone/ Country	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 2.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
NE (+CZ,DE)	ECHCG	11	All 4.4 L vs. Std	19-39	11-59	25-69	21.3	5.3-70	8.0	65.0	36.3-96.8	66.3	74.5	43.8-100	72.5	71.9	52.5-96.3	70.0	4x<,5x=,2x>

**Table 3.2-113: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Poa annua* (POAAN) – North-East EPPO zone**

EPPO zone/ Country	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 2.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
NE (CZ)	POAAN	1	All 4.4 L vs. Std	39	31	39	15	-	-	93.8	-	-	100.0	-	-	100.0	-	-	1x=

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### Broad leaved weeds

**Table 3.2-114: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Amaranthus retroflexus* (AMARE) – North-East EPPO zone**

Means valid for Poland (when available, CZ and DE trials included in mean calculation)

EPPO zone/ Country	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 2.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
NE (+CZ)	AMARE	4	All 4.4 L vs. Std	31-39	12-61	25-42	30.5	5-80	18.5	87.8	73.8-100	88.75	90.6	77.5-100	92.5	94.7	80-100	99.375	3=,1<

**Table 3.2-115: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Anthemis arvensis* (ANTAR) – North-East EPPO zone**

EPPO zone/ Country	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 2.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
NE	ANTAR	1	All 4.4 L vs. Std	39	65	42	9.0	-	-	28.8	-	-	58.8	-	-	68.8	-	-	1x<

**Table 3.2-116: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Capsella bursa-pastoris* (CAPBP) – North-East EPPO zone**

EPPO zone/ Country	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 2.6 L/ha			GLOB1913H at 3.6 L/ha			Boxer at 4 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
NE	CAPBP	2	All 3.6 L vs. Std	31-39	18-55	17-33	33.6	11.5-55.7	33.6	91.3	82.5-100	91.3	91.8	83.5-100	91.8	93.1	86.3-100	93.1	2x=

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**Table 3.2-117: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Chenopodium album* (CHEAL) – North-East EPPO zone**

Means valid for Poland (when available, CZ and DE trials included in mean calculation)

EPPO zone/ Country	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 2.6 L/ha			GLOB1913H at 3.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer at 5 L/ha			Boxer at 4 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
NE (+CZ,DE)	CHEAL	11	All 4.4 L vs. Std	31-39	14-89	25-69	14.3	6.8-43	10.5	73.6	25.3-100	80.0	-	-	-	87.8	68.8-100	88.8	86.5	66.3-100	88.8	-	-	-	1x<,7=,3x>
NE	CHEAL	2	All 3.6 L vs. Std	31-39	39-55	17-33	21.9	10-33.7	21.9	37.5	25-50	37.5	56.1	35-77.3	56.1	-	-	-	-	-	-	46.3	40-52.5	46.3	1x=,1x>

**Table 3.2-118: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Erodium cicutarium* (EROCI) – North-East EPPO zone**

Means valid for Poland (when available, CZ and DE trials included in mean calculation)

EPPO zone/ Country	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 2.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
NE (CZ)	EROCI	1	All 4.4 L vs. Std	39	65	39	5.0	-	-	91.3	-	-	100.0	-	-	80.0	-	-	1x>

**Table 3.2-119: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Fumaria officinalis* (FUMOF) – North-East EPPO zone**

Means valid for Poland (when available, CZ and DE trials included in mean calculation)

EPPO zone/ Country	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 2.6 L/ha			GLOB1913H at 3.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer at 5 L/ha			Boxer at 4 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
NE (CZ)	FUMOF	1	All 4.4 L vs. Std	39	89	43	6	-	-	87.5	-	-	-	-	-	92.5	-	-	78.8	-	-	-	-	-	1x>

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NE	FUMOF	1	All 3.6 L vs. Std	31	55	17	18.5	-	-	7.5	-	-	25.0	-	-	-	-	-	-	-	27.5	-	-	1x=
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**Table 3.2-120: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Galeopsis tetrahit* (GAETE) – North-East EPPO zone**

Means valid for Poland (when available, CZ and DE trials included in mean calculation)

Means valid for Poland (when available, CZ and DE trials included in mean calculation)																										
EPPO zone/ Country	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 2.6 L/ha			GLOB1913H at 3.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer at 5 L/ha			Boxer at 4 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]	
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn		Mean
NE (CZ)	GAETE	1	All 4.4 L vs. Std	39	51	39	13.75	-	-	100.0	-	-	-	-	-	100.0	-	-	100.0	-	-	-	-	-	-	1x=
NE	GAETE	1	All 3.6 L vs. Std	31	55	17	17.5	-	-	55.0	-	-	92.5	-	-	-	-	-	-	-	-	-	100.0	-	-	1x<

**Table 3.2-121: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Galinsoga parviflora* (GASPA) – North-East EPPO zone**

EPPO zone/ Country	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 2.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
NE	GASPA	2	All 4.4 L vs. Std	36-39	33-55	37-56	10.5	7-14	10.5	91.3	88.8-93.8	91.3	95.6	91.3-100	95.6	91.3	82.5-100	91.3	1x=, 1x>

**Table 3.2-122: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Geranium pusillum* (GERPU) – North-East EPPO zone**

Means valid for Poland (when available, CZ and DE trials included in mean calculation)

EPPO zone/ Country	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 2.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer at 5 L/ha			N° trials where product is >, <, = compared
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	

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																			to standard [5% cutoff]
NE (+CZ)	GERPU	2	All 4.4 L vs. Std	39-39	29-89	39-43	5.5	5-6	5.5	93.1	91.3-95	93.1	97.5	96.3-98.8	97.5	97.4	95-99.8	97.4	2x=

**Table 3.2-123: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Lamium purpureum* (LAMPU) – North-East EPPO zone**

Means valid for Poland (when available, CZ and DE trials included in mean calculation)

EPPO zone/ Country	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 2.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
NE (DE)	LAMPU	1	All 4.4 L vs. Std	39	61	63	14.8	-	-	98.5	-	-	97.3	-	-	96.0	-	-	1x=

**Table 3.2-124: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Matricaria chamomille* (MATCH) – North-East EPPO zone**

EPPO zone/ Country	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 2.6 L/ha			GLOB1913H at 3.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer at 5 L/ha			Boxer at 4 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
NE	MATCH	1	All 3.6 L vs. Std	31	55	17	15.0	-	-	20.0	-	-	62.5	-	-	-	-	-	-	-	-	62.5	-	-	1x=

**Table 3.2-125: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Tripleurospermum inodorum* (MATIN) – North-East EPPO zone**

Means valid for Poland (when available, CZ and DE trials included in mean calculation)

EPPO zone/ Country	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 2.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	

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NE (+CZ)	MATIN	4	All 4.4 L vs. Std	36-39	34-61	37-56	9.9	6-13	10.3	83.4	65-100	84.4	87.2	77.5-100	85.6	91.6	81.3-100	92.5	1x<,3x=
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**Table 3.2-126: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Fallopia convolvulus* (POLCO) – North-East EPPO zone**

Means valid for Poland (when available, CZ and DE trials included in mean calculation)

Means valid for Poland (when available, CZ and DE trials included in mean calculation)																										
EPPO zone/ Country	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 2.6 L/ha			GLOB1913H at 3.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer at 5 L/ha			Boxer at 4 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]	
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn		Mean
NE (+DE)	POLCO	5	All 4.4 L vs. Std	36-39	16-65	32-60	8.5	5-15	6.5	66.8	30-83.8	76.3	-	-	-	83.8	61.3-97.5	87.5	86.6	65-100	87.3	-	-	-	1x<,4x=	
NE	POLCO	1	All 3.6 L vs. Std	39	51	33	38.3	-	-	46.3	-	-	56.3	-	-	-	-	-	-	-	-	50.0	-	-	-	1x>

**Table 3.2-127: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Persicaria lapathifolia* (POLLA) – North-East EPPO zone**

EPPO zone/ Country	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 2.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
NE (CZ)	POLLA	1	All 4.4 L vs. Std	39	33	39	5	-	-	75.0	-	-	95.0	-	-	93.8	-	-	1x=

**Table 3.2-128: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Persicaria maculosa* (POLPE) – North-East EPPO zone**

EPPO zone/ Country	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 2.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
NE	POLPE	3	All 4.4 L vs. Std	36-39	12-51	32-56	6.7	6-8	6.0	87.1	82.5-92.5	86.3	92.5	87.5-100	90.0	94.6	86.3-100	97.5	1x<,1x=

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**Table 3.2-129: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Polygonum persicarioides* (POLPI) – North-East EPPO zone**

EPPO zone/ Country	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 2.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
NE	POLPI	1	All 4.4 L vs. Std	31	15	25	90.2	-	-	98.8	-	-	100.0	-	-	98.8	-	-	1x=

**Table 3.2-130: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Senecio vulgaris* (SENVU) – North-East EPPO zone**

EPPO zone/ Country	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 2.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
NE (DE)	SENVU	1	All 4.4 L vs. Std	39	65	63	9.5	-	-	69.8	-	-	88.8	-	-	82.5	-	-	1x>

**Table 3.2-131: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Sinapis arvensis* (SINAR) – North-East EPPO zone**

EPPO zone/ Country	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 2.6 L/ha			GLOB1913H at 3.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer at 5 L/ha			Boxer at 4 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
NE	SINAR	1	All 3.6 L vs. Std	39	69	33	16.7	-	-	66.3	-	-	72.5	-	-	-	-	-	-	-	-	75.0	-	-	1x=

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**Table 3.2-132: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Solanum nigrum* (SOLNI) – North-East EPPO zone**

Means valid for Poland (when available, CZ and DE trials included in mean calculation)

EPPO zone/ Country	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 2.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
NE (+CZ,DE)	SOLNI	5	All 4.4 L vs. Std	39-39	19-79	40-69	10.5	5-30	5.8	70.3	56.3-88.8	67.5	84.3	62.5-100	86.3	86.1	65-100	90.0	1x<,3x=,1x>

**Table 3.2-133: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Stellaria media* (STEME) – North-East EPPO zone**

Means valid for Poland (when available, CZ and DE trials included in mean calculation)

EPPO zone/ Country	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 2.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
NE (+DE)	STEME	2	All 4.4 L vs. Std	36-39	34-61	37-63	42.8	5-80.5	42.8	98.6	97.3-100	98.6	99.1	98.3-100	99.1	98.5	97-100	98.5	2x=

**Table 3.2-134: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Thlaspi arvense* (THLAR) – North-East EPPO zone**

EPPO zone/ Country	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 2.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
NE (CZ)	THLAR	2	All 4.4 L vs. Std	39-39	71-89	39-43	18.5	7-30	18.5	96.9	93.8-100	96.9	98.8	97.5-100	98.8	93.1	91.3-95	93.1	1x=,1x>

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**Table 3.2-135: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against of GLOB1913H against *Urtica urens* (URTUR) – North-East EPPO zone**

EPPO zone/ Country	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 2.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
NE (DE)	URTUR	1	All 4.4 L vs. Std	39	55	63	150	-	-	60.0	-	-	86.0	-	-	80.0	-	-	1x>

**Table 3.2-136: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Veronica persica* (VERPE) – North-East EPPO zone**

EPPO zone/ Country	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 2.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
NE (CZ)	VERPE	1	All 4.4 L vs. Std	39	65	39	21.25	-	-	100.0	-	-	100.0	-	-	100.0	-	-	1x=

**Table 3.2-137: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Vicia cracca* (VICCR) – North-East EPPO zone**

EPPO zone/ Country	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 2.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
NE	VICCR	1	All 4.4 L vs. Std	39	63	42	24.5	-	-	40.0	-	-	65.0	-	-	75.0	-	-	1x<

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**Table 3.2-138: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Viola arvensis* (VIOAR) – North-East EPPO zone**

Means valid for Poland (when available, CZ and DE trials included in mean calculation)

EPPO zone/ Country	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 2.6 L/ha			GLOB1913H at 3.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer at 5 L/ha			Boxer at 4 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
NE (+CZ)	VIOAR	3	All 4.4 L vs. Std	39-39	59-65	39-56	10.8	5-17.5	10.0	81.7	70-90	85.0	-	-	-	91.2	82.5-98.5	92.5	87.1	75-96.3	90.0	-	-	-	2x=, 1x>
NE	VIOAR	1	All 3.6 L vs. Std	31	55	17	8	-	-	45.0	-	-	82.5	-	-	-	-	-	-	-	-	55.0	-	-	1x>

## Conclusion

A total of 8 trials were carried out in the North-East EPPO Zone to evaluate the efficacy of GLOB1913H for the control of weeds on potatoes. Those trials have been conducted between 2019 and 2020 in Poland, Estonia and Latvia.

In support of authorization in the Central zone, the results of all trials conducted in the North-East climatic zone were combined with the results of the German and Czech trials (6 trials) since these are neighbouring countries and considered as valid to Poland, the only MS in the Central zone belonging to the North-East climatic zone. The combined results from 14 trials are thus shown.

In trials conducted in the Northern zone (Estonia and Latvia), tested dose rate represents the common practice for prosulfocarb, currently authorized at the dose rate of 3200 g a.s./ha (e.g. Boxer 800 EC at 4 L/ha). Therefore, GLOB1913H was tested at 3.6 L/ha in those countries and at 4.4 L/ha in Poland, as common practice in the Central zone. Nevertheless, having tested a higher and a lower dose rate (4.4 and 2.6 L/ha) in Poland, it is reasonable to consider that practical efficacy at the rate of 3.5 L/ha will lay somewhere in between those values.

Data demonstrated that the efficacy of GLOB1913H at the maximum proposed rate of 4.4 L/ha was in general equivalent to the efficacy of standard product Boxer at 5 L/ha, applying nearly the same amount of prosulfocarb as GLOB1913H. In trials conducted in the Northern zone (Estonia and Latvia), GLOB1913H at 3.6 L/ha was also in general comparable to the efficacy of Boxer at 4 L/ha, applying nearly the same amount of prosulfocarb as GLOB1913H. In this case, lower but still useful levels of control were observed. In particular, against some weeds as e.g. AMARE, CAPBP, MATIN, SOLNI, GLOB1913H provided already a good control at lower rates and support the target rate of 3.5 L/ha.

Moreover, typical weed control schemes consist of a mixture of different active ingredients with different modes of action in order to lower the risk for development of resistance, where prosulfocarb is generally used at lower rates. In these conditions, GLOB1913H will provide a valuable tool following label recommendations.

Generally, these results also confirm the results obtained from other EPPO climatic zones.

From the presented results it can be clearly concluded that key weeds commonly populating potato fields are susceptible or highly susceptible to GLOB1913H applied at the maximum proposed rate of 4.4 L/ha. As results are strongly linked to the weed species, reference is made to the tables below showing the susceptibility spectrum of the different weeds.

Still, from the presented results it can be concluded that performance of GLOB1913H (900 g/L of prosulfocarb) is in general comparable with existing formulations based on 800 g/L of prosulfocarb and thus, according to PP 1/307(2), allows extrapolation to the complete associated claims/uses for the authorized products e.g. Roxy 800 EC and the underlying supporting data.

In some countries, standard products containing prosulfocarb in a formulation containing 800 g/L are authorized at ranges between 3 and 5 L/ha. Susceptibility spectrum for GLOB1913H at 2.6-3.5 and 4.4 L/ha is thus also shown below to better reflect local common practices.

Table 3.2-139 and Table 3.2-140 show respectively the overall mean efficacy results of GLOB1913H in 1 application of 2.6, 3.6 and 4.4 L/ha against grasses and broad leaved weeds compared to the reference standard. The number of trials on which each result is based is also shown.

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Table 3.2-141 presents separately results from some grasses and broad leaved weed species that appeared in just one trial.

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**Table 3.2-139: Overall efficacy and susceptibility level to GLOBAL1913H (Prosulfocarb 900 EC) at the rates of 3.6 and 4.4 L/ha on potatoes against grasses - North-East EPPO zone\***

EPPO zone*/Country	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOBAL1913H at 2.6 L/ha			GLOBAL1913H at 3.6 L/ha			GLOBAL1913H at 4.4 L/ha			Boxer at 5 L/ha			Boxer at 4 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]	Suscept. Level**	
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn		at 2.6-3.5 L/ha	at 4.4 L/ha
NE (+CZ,DE)	ECHCG	11	All 4.4 L vs. Std	19-39	11-59	25-69	21.3	5.3-70	8.0	65.0	36.3-96.8	66.3	-	-	-	74.5	43.8-100	72.5	71.9	52.5-96.3	70.0	-	-	-	4x<,5x=,2x>	MT	MS

\*When available, CZ and DE trials included in mean calculation as supportive for Poland

\*\*T=Tolerant; MT=Moderately Tolerant; MS=Moderately Susceptible; S=Susceptible; HS=Highly Susceptible. Where data not available at specific rate, reference is made to control reached at the closest lower tested rate.

**Table 3.2-140: Overall efficacy and susceptibility level to GLOBAL1913H (Prosulfocarb 900 EC) at the rates of 3.6 and 4.4 L/ha on potatoes against broad leaved weeds - North-East EPPO zone\***

EPPO zone*/Country	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOBAL1913H at 2.6 L/ha			GLOBAL1913H at 3.6 L/ha			GLOBAL1913H at 4.4 L/ha			Boxer at 5 L/ha			Boxer at 4 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]	Suscept. Level**	
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn		at 2.6-3.5 L/ha	at 4.4 L/ha
NE (+CZ)	AMARE	4	All 4.4 L vs. Std	31-39	12-61	25-42	30.5	5-80	18.5	87.8	73.8-100	88.75	-	-	-	90.6	77.5-100	92.5	94.7	80-100	99.375	-	-	-	3=,1<	S	S
NE	CAPBP	2	All 3.6 L vs. Std	31-39	18-55	17-33	33.6	11.5-55.7	33.6	91.3	82.5-100	91.3	91.8	83.5-100	91.8	-	-	-	-	-	-	93.1	86.3-100	93.1	2x=	S	S
NE (+CZ,DE)	CHEAL	11	All 4.4 L vs. Std	31-39	14-89	25-69	14.3	6.8-43	10.5	73.6	25.3-100	80.0	-	-	-	87.8	68.8-100	88.8	86.5	66.3-100	88.8	-	-	-	1x<,7=,3x>	MT	S
		2	All 3.6 L vs. Std	31-39	39-55	17-33	21.9	10-33.7	21.9	37.5	25-50	37.5	56.1	35-77.3	56.1	-	-	-	-	-	-	46.3	40-52.5	46.3	1x=,1x>		
NE (+CZ)	FUMOF	1	All 4.4 L vs. Std	39	89	43	6	-	-	87.5	-	-	-	-	-	92.5	-	-	78.8	-	-	-	-	-	1x>	T	S
		1	All 3.6 L vs. Std	31	55	17	18.5	-	-	7.5	-	-	25.0	-	-	-	-	-	-	-	-	27.5	-	-	1x=		

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EPPO zone*/Country	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 2.6 L/ha			GLOB1913H at 3.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer at 5 L/ha			Boxer at 4 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]	Suscept. Level**	
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn		at 2.6-3.5 L/ha	at 4.4 L/ha
NE (+CZ)	GAETE	1	All 4.4 L vs. Std	39	51	39	13.75	-	-	100.0	-	-	-	-	-	100.0	-	-	100.0	-	-	-	-	-	1x=	S	HS
		1	All 3.6 L vs. Std	31	55	17	17.5	-	-	55.0	-	-	92.5	-	-	-	-	-	-	-	-	100.0	-	-	1x<		
NE	GASPA	2	All 4.4 L vs. Std	36-39	33-55	37-56	10.5	7-14	10.5	91.3	88.8-93.8	91.3	-	-	-	95.6	91.3-100	95.6	91.3	82.5-100	91.3	-	-	-	1x=, 1x>	S	HS
NE (+CZ)	GERPU	2	All 4.4 L vs. Std	39-39	29-89	39-43	5.5	5-6	5.5	93.1	91.3-95	93.1	-	-	-	97.5	96.3-98.8	97.5	97.4	95-99.8	97.4	-	-	-	2x=	S	HS
NE (+CZ)	MATIN	4	All 4.4 L vs. Std	36-39	34-61	37-56	9.9	6-13	10.3	83.4	65-100	84.4	-	-	-	87.2	77.5-100	85.6	91.6	81.3-100	92.5	-	-	-	1x<, 3x=	MS	S
NE (+DE)	POLCO	5	All 4.4 L vs. Std	36-39	16-65	32-60	8.5	5-15	6.5	66.8	30-83.8	76.3	-	-	-	83.8	61.3-97.5	87.5	86.6	65-100	87.3	-	-	-	1x<, 4x=	MT	MS
		1	All 3.6 L vs. Std	39	51	33	38.3	-	-	46.3	-	-	56.3	-	-	-	-	-	-	-	-	50.0	-	-	1x>		
NE	POLPE	3	All 4.4 L vs. Std	36-39	12-51	32-56	6.7	6-8	6.0	87.1	82.5-92.5	86.3	-	-	-	92.5	87.5-100	90.0	94.6	86.3-100	97.5	-	-	-	1x<, 1x=	S	S
NE (+CZ, DE)	SOLNI	5	All 4.4 L vs. Std	39-39	19-79	40-69	10.5	5-30	5.8	70.3	56.3-88.8	67.5	-	-	-	84.3	62.5-100	86.3	86.1	65-100	90.0	-	-	-	1x<, 3x=, 1x>	MS	MS
NE (+DE)	STEME	2	All 4.4 L vs. Std	36-39	34-61	37-63	42.8	5-80.5	42.8	98.6	97.3-100	98.6	-	-	-	99.1	98.3-100	99.1	98.5	97-100	98.5	-	-	-	2x=	HS	HS
NE (CZ)	THLAR	2	All 4.4 L vs. Std	39-39	71-89	39-43	18.5	7-30	18.5	96.9	93.8-100	96.9	-	-	-	98.8	97.5-100	98.8	93.1	91.3-95	93.1	-	-	-	1x=, 1x>	HS	HS
NE (+CZ)	VIOAR	3	All 4.4 L vs. Std	39-39	59-65	39-56	10.8	5-17.5	10.0	81.7	70-90	85.0	-	-	-	91.2	82.5-98.5	92.5	87.1	75-96.3	90.0	-	-	-	2x=, 1x>	MS	S
		1	All 3.6 L vs. Std	31	55	17	8	-	-	45.0	-	-	82.5	-	-	-	-	-	-	-	-	55.0	-	-	1x>		

\*When available, CZ and DE trials included in mean calculation as supportive for Poland

\*\*T=Tolerant; MT=Moderately Tolerant; MS=Moderately Susceptible; S=Susceptible; HS=Highly Susceptible. Where data not available at specific rate, reference is made to control reached at the closest lower tested rate.

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**Table 3.2-141: Overall efficacy and susceptibility level to GLOB1913H (Prosulfocarb 900 EC) at the rates of 3.6 and 4.4 L/ha on potatoes against grasses and broad leaved weeds which occurred in only one trial - North-East EPPO zone\***

EPPO zone*/Country	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 2.6 L/ha			GLOB1913H at 3.6 L/ha			GLOB1913H at 4.4 L/ha			Boxer at 5 L/ha			Boxer at 4 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]	Suscept. Level**	
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn		at 2.6-3.5 L/ha	at 4.4 L/ha
NE	AGRRE	1	All 4.4 L vs. Std	39	37	39	10.0	-	-	25.0	-	-	-	-	-	47.5	-	-	50.0	-	-	-	-	-	1x=	T	T
NE (CZ)	POAAN	1	All 4.4 L vs. Std	39	31	39	15	-	-	93.8	-	-	-	-	-	100.0	-	-	100.0	-	-	-	-	-	1x=	T	HS
NE	ANTAR	1	All 4.4 L vs. Std	39	65	42	9.0	-	-	28.8	-	-	-	-	-	58.8	-	-	68.8	-	-	-	-	-	1x<	T	MT
NE (CZ)	EROCI	1	All 4.4 L vs. Std	39	65	39	5.0	-	-	91.3	-	-	-	-	-	100.0	-	-	80.0	-	-	-	-	-	1x>	S	HS
NE (DE)	LAMPU	1	All 4.4 L vs. Std	39	61	63	14.8	-	-	98.5	-	-	-	-	-	97.3	-	-	96.0	-	-	-	-	-	1x=	HS	HS
NE	MATCH	1	All 3.6 L vs. Std	31	55	17	15.0	-	-	20.0	-	-	62.5	-	-	-	-	-	-	-	-	62.5	-	-	1x=	T-MT	MT
NE (CZ)	POLLA	1	All 4.4 L vs. Std	39	33	39	5	-	-	75.0	-	-	-	-	-	95.0	-	-	93.8	-	-	-	-	-	1x=	MS	HS
NE	POLPI	1	All 4.4 L vs. Std	31	15	25	90.2	-	-	98.8	-	-	-	-	-	100.0	-	-	98.8	-	-	-	-	-	1x=	HS	HS
NE (DE)	SENVU	1	All 4.4 L vs. Std	39	65	63	9.5	-	-	69.8	-	-	-	-	-	88.8	-	-	82.5	-	-	-	-	-	1x>	MT	S
NE	SINAR	1	All 3.6 L vs. Std	39	69	33	16.7	-	-	66.3	-	-	72.5	-	-	-	-	-	-	-	-	75.0	-	-	1x=	MT-MS	MS
NE (DE)	URTUR	1	All 4.4 L vs. Std	39	55	63	150	-	-	60.0	-	-	-	-	-	86.0	-	-	80.0	-	-	-	-	-	1x>	MT	S
NE (CZ)	VERPE	1	All 4.4 L vs. Std	39	65	39	21.25	-	-	100.0	-	-	-	-	-	100.0	-	-	100.0	-	-	-	-	-	1x=	HS	HS
NE	VICCR	1	All 4.4 L vs. Std	39	63	42	24.5	-	-	40.0	-	-	-	-	-	65.0	-	-	75.0	-	-	-	-	-	1x<	T	MT

\*When available, CZ and DE trials included in mean calculation as supportive for Poland

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\*\*T=Tolerant; MT=Moderately Tolerant; MS=Moderately Susceptible; S=Susceptible; HS=Highly Susceptible. Where data not available at specific rate, reference is made to control reached at the closest lower tested rate.

### **South-East EPPO Zone**

A total of 3 trials were carried out in the South-East EPPO Zone to evaluate the efficacy of GLOB1913H for the control of weeds on potatoes. Those trials have been conducted during 2020 in the Eastern part of Croatia and in Hungary.

Trials in the South-East EPPO zone included different rates of the test product, namely 2.6 and 4.4 L/ha. Nevertheless, having tested a higher and a lower dose rate (4.4 and 2.6 L/ha) it is reasonable to consider that practical efficacy at the rate of 3.5 L/ha will lay somewhere in between those values.

As a lower dose rate was included in all trials, these results are also presented in detail under point 3.2.3 Efficacy tests but summarized and discussed above under point 3.2.2 Minimum effective dose tests.

During the trials, a total of 4 different broad leaved weed species and one grass weed species were assessed.

Filon or Fidox (all prosulfocarb 800 g/L formulations) were included in all trials at authorized label rates (5 L/ha) as a uniform reference, applying nearly the same amount of prosulfocarb as GLOB1913H.

The percentage of visual control at the assessment performed about BBCH 39 of the crop containing enough weeds per square meters were summarized below for each weed. The minimum population of 5 plants/m<sup>2</sup> was considered for validation of the trial and assessment timing.

Data were summarized at the end of each table by an orthogonal comparison of the control achieved by the tested dose rates of GLOB1913H to Filon or Fidox across all trials (grouping “All”). The number of trials where GLOB1913H at the requested rate is >, <, = compared to the reference standard is provided.

The color scheme used to classify the levels of weed control are described above in section 3.2.3 Efficacy tests (KCP 6.2).

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### Grass weeds

**Table 3.2-142: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Echinochloa crus-galli* (ECHCG) – South-East EPPO zone**

EPPO zone	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 2.6 L/ha			GLOB1913H at 4.4 L/ha			Filon/Fidox at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
SE	ECHCG	3	All	39-39	17-49	40-46	5.8	4.5-7	6.0	83.9	70-92.5	89.3	90.4	83.8-95	92.5	89.9	86.3-93.5	90.0	3x=

### Broad leaved weeds

**Table 3.2-143: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Ambrosia artemisiifolia* (AMBEL) – South-East EPPO zone**

EPPO zone	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 2.6 L/ha			GLOB1913H at 4.4 L/ha			Filon/Fidox at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
SE	AMBEL	2	All	39-39	17-55	40-76	10.5	6-15	10.5	59.6	30-89.3	59.6	76.3	60-92.5	76.3	56.8	20-93.5	56.8	1x<,1x>

**Table 3.2-144: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Chenopodium album* (CHEAL) – South-East EPPO zone**

EPPO zone	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 2.6 L/ha			GLOB1913H at 4.4 L/ha			Filon/Fidox at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
SE	CHEAL	3	All	39-39	21-35	40-46	13.7	6-20.2	15.0	79.6	70-92.5	76.3	87.9	82.5-95	86.3	88.5	82.5-95	88.1	3x=

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**Table 3.2-145: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Chenopodium hybridum* (CHEHY) – South-East EPPO zone**

EPPO zone	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 2.6 L/ha			GLOB1913H at 4.4 L/ha			Filon/Fidox at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
SE	CHEHY	1	All	39	35	46	6.3	-	-	76.3	-	-	93.1	-	-	91.9	-	-	1x=

**Table 3.2-146: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Solanum nigrum* (SOLNI) – South-East EPPO zone**

EPPO zone	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 2.6 L/ha			GLOB1913H at 4.4 L/ha			Filon/Fidox at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
SE	SOLNI	2	All	39-39	24-35	44-46	6.5	6-7	6.5	44.4	20-68.8	44.4	54.4	26.3-82.5	54.4	49.7	18.8-80.6	49.7	1x=,1x>

## Conclusion

A total of 3 trials were carried out in the South-East EPPO Zone to evaluate the efficacy of GLOB1913H for the control of weeds on potatoes. Those trials have been conducted during 2020 in the Eastern part of Croatia and in Hungary.

During the trials, a total of 4 different broad leaved weed species and one grass weed species were assessed. All trials included also a lower dose rate in order to study the rate response of the product (see Minimum effective dose tests at 3.2.2).

Trials in the South-East EPPO zone included different rates of the test product, namely 2.6 and 4.4 L/ha. Nevertheless, having tested a higher and a lower dose rate (4.4 and 2.6 L/ha) it is reasonable to consider that practical efficacy at the rate of 3.5 L/ha will lay somewhere in between those values.

Data demonstrated that the efficacy of GLOB1913H at the maximum proposed rate of 4.4 L/ha was in general equivalent to the efficacy of standard products Filon or Fidox (all prosulfocarb 800 g/L formulations) applying nearly the same amount of prosulfocarb as GLOB1913H. In particular, against some weeds as e.g. ECHCG and CHEAL, GLOB1913H provided already a good control at lower rates and support the target rate of 3.5 L/ha.

Moreover, typical weed control schemes consist of a mixture of different active ingredients with different modes of action in order to lower the risk for development of resistance, where prosulfocarb is generally used at lower rates. In these conditions, GLOB1913H will provide a valuable tool following label recommendations.

Generally, these results also confirm the results obtained from other EPPO climatic zones.

From the presented results it can be clearly concluded that key weeds commonly populating potato fields are susceptible to GLOB1913H applied at the maximum proposed rate of 4.4 L/ha. As results are strongly linked to the weed species, reference is made to the tables below showing the susceptibility spectrum of the different weeds.

Still, from the presented results it can be concluded that performance of GLOB1913H (900 g/L of prosulfocarb) is in general comparable with existing formulations based on 800 g/L of prosulfocarb and thus, according to PP 1/307(2), allows extrapolation to the complete associated claims/uses for the authorized products e.g. Fidox and the underlying supporting data.

In some countries, standard products containing prosulfocarb in a formulation containing 800 g/L are authorized at ranges between 3 and 5 L/ha. Susceptibility spectrum for GLOB1913H at 2.6-3.5 and 4.4 L/ha is thus also shown below to better reflect local common practices.

Table 3.2-147 and Table 3.2-148 show respectively the overall mean efficacy results of GLOB1913H in 1 application of 2.6 and 4.4 L/ha against grasses and broad leaved weeds compared to the reference standards. The number of trials on which each result is based is also shown.

Table 3.2-149 presents separately results from weed species (broad leaved) that appeared in just one trial.

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**Table 3.2-147: Overall efficacy and susceptibility level to GLOB1913H (Prosulfocarb 900 EC) at the target rate of 4.4 L/ha on potatoes against grasses- South-East EPPO zone**

EPPO zone	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 2.6 L/ha			GLOB1913H at 4.4 L/ha			Filon/Fidox at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]	Suscept. Level at 2.6-3.5 L/ha*	Suscept. Level at 4.4L/ha*
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn			
SE	ECHCG	3	All	39-39	17-49	40-46	5.8	4.5-7	6.0	83.9	70-92.5	89.3	90.4	83.8-95	92.5	89.9	86.3-93.5	90.0	3x=	MS	S

\*T=Tolerant; MT=Moderately Tolerant; MS=Moderately Susceptible; S=Susceptible; HS=Highly Susceptible. Where data not available at specific rate, reference is made to control reached at the closest lower tested rate.

**Table 3.2-148: Overall efficacy and susceptibility level to GLOB1913H (Prosulfocarb 900 EC) at the target rate of 4.4 L/ha on potatoes against broad leaved weeds- South-East EPPO zone**

EPPO zone	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 2.6 L/ha			GLOB1913H at 4.4 L/ha			Filon/Fidox at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]	Suscept. Level at 2.6-3.5 L/ha*	Suscept. Level at 4.4L/ha*
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn			
SE	AMBEL	2	All	39-39	17-55	40-76	10.5	6-15	10.5	59.6	30-89.3	59.6	76.3	60-92.5	76.3	56.8	20-93.5	56.8	1x<,1x>	MT	MS
	CHEAL	3	All	39-39	21-35	40-46	13.7	6-20.2	15.0	79.6	70-92.5	76.3	87.9	82.5-95	86.3	88.5	82.5-95	88.1	3x=	MS	S
	SOLNI	2	All	39-39	24-35	44-46	6.5	6-7	6.5	44.4	20-68.8	44.4	54.4	26.3-82.5	54.4	49.7	18.8-80.6	49.7	1x=,1x>	T	MT

\*T=Tolerant; MT=Moderately Tolerant; MS=Moderately Susceptible; S=Susceptible; HS=Highly Susceptible. Where data not available at specific rate, reference is made to control reached at the closest lower tested rate.

**Table 3.2-149: Overall efficacy and susceptibility level to GLOB1913H (Prosulfocarb 900 EC) at the target rate of 4.4 L/ha on potatoes against broad leaved weeds which occurred in only one trial- South-East EPPO zone**

EPPO zone	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			GLOB1913H at 2.6 L/ha			GLOB1913H at 4.4 L/ha			Filon/Fidox at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]	Suscept. Level at 2.6-3.5 L/ha*	Suscept. Level at 4.4L/ha*
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn			
SE	CHEHY	1	All	39	35	46	6.3	-	-	76.3	-	-	93.1	-	-	91.9	-	-	1x=	MS	S

\*T=Tolerant; MT=Moderately Tolerant; MS=Moderately Susceptible; S=Susceptible; HS=Highly Susceptible. Where data not available at specific rate, reference is made to control reached at the closest lower tested rate.



### **Mediterranean EPPO Zone**

A total of 2 trials were carried out in the Mediterranean EPPO Zone to evaluate the efficacy of GLOB1913H for the control of weeds on potatoes. Those trials have been conducted during 2021 in Italy.

Trials in the Mediterranean EPPO zone included different rates of the test product, namely 2.6 and 4.4 L/ha. Nevertheless, having tested a higher and a lower dose rate (4.4 and 2.6 L/ha) it is reasonable to consider that practical efficacy at the rate of 3.5 L/ha will lay somewhere in between those values.

As a lower dose rate was included in all trials, these results are also presented in detail under point 3.2.3 Efficacy tests but summarized and discussed above under point 3.2.2 Minimum effective dose tests.

During the trials, a total of 6 different broad leaved weed species and 2 grass weed species were assessed.

Roxy 800 EC (prosulfocarb 800 g/L) was included in all trials at authorized label rate (5 L/ha) as a uniform reference, applying nearly the same amount of prosulfocarb as GLOB1913H.

The percentage of visual control at the assessment performed about BBCH 39 of the crop containing enough weeds per square meters were summarized below for each weed. The minimum population of 5 plants/m<sup>2</sup> was considered for validation of the trial and assessment timing.

Data were summarized at the end of each table by an orthogonal comparison of the control achieved by the tested dose rates of GLOB1913H to Roxy 800 EC across all trials (grouping “All”). The number of trials where GLOB1913H at the requested rate is >, <, = compared to the reference standard is provided.

The color scheme used to classify the levels of weed control are described above in section 3.2.3 Efficacy tests (KCP 6.2).

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### Grass weeds

**Table 3.2-150: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Cyperus rotundus*\* (CYPRO) – Mediterranean EPPO zone**

EPPO zone	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			Prosulfocarb 900 EC at 2.6 L/ha			Prosulfocarb 900 EC at 4.4 L/ha			Roxy 800 EC at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
MED	CYPRO	1	All	32	22-60	42	13.0	-	-	55.0	-	-	65.0	-	-	75.0	-	-	1x<

\* sedge grass like

**Table 3.2-151: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Setaria viridis* (SETVI) – Mediterranean EPPO zone**

EPPO zone	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			Prosulfocarb 900 EC at 2.6 L/ha			Prosulfocarb 900 EC at 4.4 L/ha			Roxy 800 EC at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
MED	SETVI	1	All	32	22-60	42	13	-	-	65.0	-	-	78.8	-	-	76.3	-	-	1x=

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### Broad leaved weeds

**Table 3.2-152: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Amaranthus retroflexus* (AMARE) – Mediterranean EPPO zone**

EPPO zone	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			Prosulfocarb 900 EC at 2.6 L/ha			Prosulfocarb 900 EC at 4.4 L/ha			Roxy 800 EC at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
MED	AMARE	1	All	39	30	49	7.0	-	-	97.5	-	-	100.0	-	-	100.0	-	-	1x=

**Table 3.2-153: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Chenopodium album* (CHEAL) – Mediterranean EPPO zone**

EPPO zone	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			Prosulfocarb 900 EC at 2.6 L/ha			Prosulfocarb 900 EC at 4.4 L/ha			Roxy 800 EC at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
MED	CHEAL	2	All	32-39	18-51	42-49	8.0	6-10	8.0	66.3	57.5-75	66.3	73.8	67.5-80	73.8	80.6	80-81.3	80.6	1x=, 1x<

**Table 3.2-154: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Convolvulus arvensis* (CONAR) – Mediterranean EPPO zone**

EPPO zone	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			Prosulfocarb 900 EC at 2.6 L/ha			Prosulfocarb 900 EC at 4.4 L/ha			Roxy 800 EC at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
MED	CONAR	1	All	32	17-34	42	6	-	-	58.8	-	-	68.8	-	-	68.8	-	-	1x=

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**Table 3.2-155: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Datura stramonium* (DATST) – Mediterranean EPPO zone**

EPPO zone	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			Prosulfocarb 900 EC at 2.6 L/ha			Prosulfocarb 900 EC at 4.4 L/ha			Roxy 800 EC at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
MED	DATST	1	All	32	15-60	42	9.0	-	-	57.5	-	-	73.8	-	-	83.8	-	-	1x<

**Table 3.2-156: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Malva sylvestris* (MALSI) – Mediterranean EPPO zone**

EPPO zone	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			Prosulfocarb 900 EC at 2.6 L/ha			Prosulfocarb 900 EC at 4.4 L/ha			Roxy 800 EC at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
MED	MALSI	1	All	32	16-22	42	6	-	-	82.5	-	-	87.5	-	-	80.0	-	-	1x>

**Table 3.2-157: Efficacy of GLOB1913H (Prosulfocarb 900 EC) against *Portulaca oleracea* (POROL) – Mediterranean EPPO zone**

EPPO zone	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			Prosulfocarb 900 EC at 2.6 L/ha			Prosulfocarb 900 EC at 4.4 L/ha			Roxy 800 EC at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	
MED	POROL	2	All	32-39	22-51	42-49	8.5	7-10	8.5	96.3	92.5-100	96.3	98.8	97.5-100	98.8	100.0	100-100	100.0	2x=

## Conclusion

A total of 2 trials were carried out in the Mediterranean EPPO Zone to evaluate the efficacy of GLOB1913H for the control of weeds on potatoes. Those trials have been conducted during 2021 in Italy

During the trials, a total of 6 different broad leaved weed species and 2 grass weed species were assessed. All trials included also a lower dose rate in order to study the rate response of the product (see Minimum effective dose tests at 3.2.2).

Trials in the Mediterranean EPPO zone included different rates of the test product, namely 2.6 and 4.4 L/ha. Nevertheless, having tested a higher and a lower dose rate (4.4 and 2.6 L/ha) it is reasonable to consider that practical efficacy at the rate of 3.5 L/ha will lay somewhere in between those values.

Data demonstrated that the efficacy of GLOB1913H (= Prosulfocarb 900 EC) at the maximum proposed rate of 4.4 L/ha was in general equivalent to the efficacy of standard product Roxy (prosulfocarb 800 g/L) applying nearly the same amount of prosulfocarb as GLOB1913H. In particular, against some weeds as e.g. POROL and AMARE, GLOB1913H provided already a good control at lower rates and support the target rate of 3.5 L/ha.

Moreover, typical weed control schemes consist of a mixture of different active ingredients with different modes of action in order to lower the risk for development of resistance, where prosulfocarb is generally used at lower rates. In these conditions, GLOB1913H will provide a valuable tool following label recommendations.

Generally, these results also confirm the results obtained from other EPPO climatic zones.

From the presented results it can be clearly concluded that key weeds commonly populating potato fields are susceptible to GLOB1913H applied at the maximum proposed rate of 4.4 L/ha. As results are strongly linked to the weed species, reference is made to the tables below showing the susceptibility spectrum of the different weeds.

Still, from the presented results it can be concluded that performance of GLOB1913H (900 g/L of prosulfocarb) is in general comparable with existing formulations based on 800 g/L of prosulfocarb and thus, according to PP 1/307(2), allows extrapolation to the complete associated claims/uses for the authorized products e.g. Roxy 800 EC and the underlying supporting data.

In some countries, standard products containing prosulfocarb in a formulation containing 800 g/L are authorized at ranges between 3 and 5 L/ha. Susceptibility spectrum for GLOB1913H at 2.6-3.5 and 4.4 L/ha is thus also shown below to better reflect local common practices.

Table 3.2-158 shows the overall mean efficacy results of GLOB1913H in 1 application of 2.6 and 4.4 L/ha against broad leaved weeds compared to the reference standards. The number of trials on which each result is based is also shown. The overall susceptibility level of each weed at 3.5 and 4.4 L/ha is indicated in the last columns.

Table 3.2-159 presents separately results from weed species (grasses and broad leaved) that appeared in just one trial.

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**Table 3.2-158: Overall efficacy and susceptibility level to GLOB1913H (Prosulfocarb 900 EC) at the target rate of 4.4 L/ha on potatoes against broad leaved weeds- Mediterranean EPPO zone**

EPPO zone	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			Prosulfocarb 900 EC at 2.6 L/ha			Prosulfocarb 900 EC at 4.4 L/ha			Roxy 800 EC at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]	Suscept. Level at 2.6-3.5 L/ha*	Suscept. Level at 4.4L/ha*
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn			
MED	CHEAL	2	All	32-39	18-51	42-49	8.0	6-10	8.0	66.3	57.5-75	66.3	73.8	67.5-80	73.8	80.6	80-81.3	80.6	1x=, 1x<	MT	MS
MED	POROL	2	All	32-39	22-51	42-49	8.5	7-10	8.5	96.3	92.5-100	96.3	98.8	97.5-100	98.8	100.0	100-100	100.0	2x=	HS	HS

\*T=Tolerant; MT=Moderately Tolerant; MS=Moderately Susceptible; S=Susceptible; HS=Highly Susceptible. Where data not available at specific rate, reference is made to control reached at the closest lower tested rate.

**Table 3.2-159: Overall efficacy and susceptibility level to GLOB1913H (Prosulfocarb 900 EC) at the target rate of 4.4 L/ha on potatoes against grasses and broad leaved weeds which occurred in only one trial- Mediterranean EPPO zone**

EPPO zone	Target code	Nb. trials	Grouping	Crop BBCH at ass.	Weed BBCH at ass.	DA-A	Infestation in the untreated control (PLANT/M2)			Prosulfocarb 900 EC at 2.6 L/ha			Prosulfocarb 900 EC at 4.4 L/ha			Roxy 800 EC at 5 L/ha			N° trials where product is >, <, = compared to standard [5% cutoff]	Suscept. Level at 2.6-3.5 L/ha*	Suscept. Level at 4.4L/ha
							Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn			
Grasses																					
MED	CYPRO	1	All	32	22-60	42	13.0	-	-	55.0	-	-	65.0	-	-	75.0	-	-	1x<	MT	MT
MED	SETVI	1	All	32	22-60	42	13	-	-	65.0	-	-	78.8	-	-	76.3	-	-	1x=	MT	MS
Broad leaved																					
MED	AMARE	1	All	39	30	49	7.0	-	-	97.5	-	-	100.0	-	-	100.0	-	-	1x=	HS	HS
MED	CONAR	1	All	32	17-34	42	6	-	-	58.8	-	-	68.8	-	-	68.8	-	-	1x=	MT	MT
MED	DATST	1	All	32	15-60	42	9.0	-	-	57.5	-	-	73.8	-	-	83.8	-	-	1x<	MT	MS
MED	MALSI	1	All	32	16-22	42	6	-	-	82.5	-	-	87.5	-	-	80.0	-	-	1x>	MS	S

\*T=Tolerant; MT=Moderately Tolerant; MS=Moderately Susceptible; S=Susceptible; HS=Highly Susceptible. Where data not available at specific rate, reference is made to control reached at the closest lower tested rate.

## Minor use

Efficacy data from trials conducted on most winter cereals (including the major crops winter wheat and winter barley) are deemed to be sufficient to cover the use also on the minor crops durum wheat and spelt, as the crop growth stage and interception at application is comparable.

In addition, the submitted data show that GLOB1913H and the reference products Roxy/Boxer/Defi/Fidox 800 are equivalent in terms of efficacy and selectivity when providing the same amount of active substance and therefore also all minor uses already granted for those products can be extrapolated to the GLOB1913H.

### CEREALS

GLOB1913H was tested at 4.4, 3.5 and 2.6 L/ha (3960, 3150, 2340 g of active substance/ha). The requested dose rate of 4.0 L/ha was not been supported by field trials. The applicant states that “all data at 4.4 L/ha dose rate can be used as support a dose rate of 4.0 L/ha on cereals because they differ less than 10%.” This approach is unacceptable as this guidance applies to dose changes of registered products and not as part of a core assessment under Article 33.

Maritime EPPO zone

#### Pre-emergence application

Efficacy evaluations for pre emergence weed control in cereals in the Maritime zone are summarized in this section from 26 trials in winter cereals: winter wheat: 19, winter barley: 4, winter triticale: 2, winter rye: 1, where GLOB1913H was applied at the intended application rates of 2.6, 3.5 and 4.4 L/ha. Those trials have been conducted during 3 seasons between 2018 and 2021 in the Czech Republic, Denmark, France, Germany, United Kingdom, and the Netherlands. GLOB1913H was tested at 4.4, 3.5 and 2.6 L/ha (3960, 3150, 2340 g of active substance/ha) at pre-emergence application with a maximum of one application with a water content of 150 – 300 L/ha.

Target code	Infestation in the untreated control (PLANT/m <sup>2</sup> )	GLOB1913H at 2.6 l/ha	GLOB1913H at 3.5l/ha	GLOB1913H at 4.4l/ha	Roxy 800 EC at 4.0 l/ha	Roxy 800 EC at 5l/ha
ALOMY	43.2 5.8-192.5	(11) 60.8 23.8-95.0	(16) 75.9 40-100	(9) 71.0 15.0-99.0	-	(9) 69.2 47.5-99.0
APESV	7.0 5-10	(3) 98.3 95-100	(3) 100.0 100-100	(1) 100 100	(2) 90.0 80.0-100	(1) 100 100
POAAN	198.4 11-550	(3) 33.5 0.0-95.8	(3) 56.4 0-92.8	(1) 95.0 95.0	(2) 18.8 0.0-37.5	-
FUMOF	16.4 12-22	(3) 86.7 80.0-95.0	(3) 90.0 80.0-100	(3) 87.1 80.0-91.3	-	(3) 92.6 86.3-99.0
STEME	13.7 5.0-61.5	(8) 92.6 60.0-100	(13) 94.5 62.5-100	(4) 99.2 98.0-100	(5) 86.0 50.0-100	(4) 98.2 96.3-100
GERPU	12.3 9.0-18.0	-	(2) 90.6 81.3-100	-	-	NACETO (2) 100
MATCH	19.3 6.0-39	(2) 82.4 82.3-82.4	(4) 87.6 80.0-91.3	(1) 98.8 98.8	-	Herold at 0.6l/ha 96.9 95.0-98.8
VERPE	30.3 8.0-75.5	(2) 60.7 22.5-99.0	(4) 76.3 41.3-99.0	-	(3) 78.1 41.6-99.0	-
GALAP		(6) 66.2 0.0-100	(11) 71.52 0.0-100	(5) 85.2 56.3-100	-	(5) 82.5 46.3-100
MATIN	19.3 5.0-101	(7) 52.2 11.3-98.8	(10) 65.1 0.0-99.0	(4) 48.1 13.8-80.0	(4) 59.0 9.6-98.8	(4) 53.1 16.3-76.3
PAPRH	68.9 5.0-262.5	(10) 56.6 0.0-99.8	(12) 61.9 0.0-100	(5) 66.2 26.3-99.0	(5) 44.6 0.0-95.0	(5) 59.1 5.0-100
VERHE	9.81 7.25-14.0	(4) 52.8 0.0-97.5	(4) 63.4 15.0-95.0	(3) 79.1 65.0-97.5	-	(3) 82.1 57.5-97.5
VIOAR	51.7 5.0-294.5	(10) 45.5 0.0-82.5	(13) 52.2 0.0-91.3	(6) 58.3 0.0-83.8	(6) 30.5 0.0-62.5	(6) 57.0 0.0-82.5
SENVU	18.4 4.8-32	(2) 55.6 37.5-73.8	(2) 54.9 22.5-87.3	(2) 51.9 22.5-81.3		(2) 64.3 42.5-86.0

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AVEFA	14.8 10.5-19	(2) 46.1 45-47.3	(2) 59.8 40-79.5	(2) 47.4 45.0-49.8	-	(2) 42.4 37.5-47.3
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In pre-emergence application with 2.6 l/ha the efficacy of the herbicide was effective (>85%) against APESV, FUMOF, STEME.

With 3.5 l/ha the efficacy of the herbicide was effective (>85%) against APESV, FUMOF, STEME, GERPU and MATCH.

With tested dose rate of 4.4 l/ha the efficacy of the herbicide was effective (>85%) against FUMOF, STEME and GALAP.

Except for GALAP, where the higher dose gave better control, there was no expected difference in other weed susceptibility between the 3.5 and 4.4 l/ha doses of GLOB1913H.

**POST-EMERGENCE**

A total of 41 trials were carried out in the Maritime EPPO Zone to evaluate the efficacy of GLOB1913H for the control of weeds on winter cereals (winter wheat: 28, winter barley: 7, winter triticale: 5 and winter rye: 1). Those trials have been conducted during 4 seasons between 2018 and 2021. GLOB1913H was tested at 4.4, 3.5 and 2.6 L/ha (3960, 3150, 2340 g of active substance/ha) at post-emergence application with a maximum of one application with a water content of 150 – 300 L/ha.

Target code	Infestation in the untreated control (PLANT/m <sup>2</sup> )	GLOB1913H at 2.6 l/ha	GLOB1913H at 3.5 l/ha	GLOB1913H at 4.4 l/ha	Roxy 800 EC at 4.0 l/ha	Roxy 800 EC at 5 l/ha
ALOMY	89.4 5.0-490	(10) 49.7 0.0-100	(15) 65.4 0.0-100	(8) 57.0 0.0-94.5	(9) 60.9 0.0-96.3	-
APESV	28.27 5.0-149	(14) 94.6 80.0-100	(14) 96.6 84.3-100	(11) 97.4 78.8-100	(7) 97.8 88.0-100	(5) 96.2 86.3-100
POAAN	19.3 12-28	(2) 76.9 55.0-98.8	(3) 70.1 32.5-99.0	(2) 96.4 93.8-99.0	(2) 52.5 25.0-80.0	(1) 99.0 99.0
GALAP	12.3 5.0-32.3	(17) 73.1 0.0-100	(19) 77.4 0.0-100	(15) 82.3 17.5-100	(6) 81.7 0.0-100	(8) 69.4 0.0-100
VERPE	13.9 7.0-19.8	(6) 93.9 75.0-100	(8) 93.6 50.0-100	(5) 90.0 50.0-100	(5) 99.4 97.5-100	(2) 87.5 75.0-100
GERPU	11.0 6.0-18.0	(2) 100 100	(3) 96.6 90.0-100	(1) 100 100	(1) 100 100	(1) 100 100
THLAR	29.0 8.0-50.0	(2) 100 100	(2) 100 100	(2) 100 100	(2) 100 100	-
FUMOF	11.5 5.0-15.0	(3) 96.6 91.0-100	(4) 98.1 93.0-100	(3) 97.0 91.0-100	(1) 100 100	(2) 98.4 96.8-100
LAMPU	7.5 5.0-10.0	(1) 83.8 83.8	(2) 95.3 91.3-99.3	(1) 97.5 97.5	(1) 85.0 85.0	(1) 99.5 99.5
MYOAR	13.6 7.0-25.5	(3) 80.2 50.0-95.8	(3) 81.2 50.0-97.5	(2) 98.0 98.0	(2) 71.7 45.0-98.5	(2) 75.5 53.8-97.3
STEME	17.54 4.0-83.8	(14) 77.0 8.8-100	(16) 80.3 9.5-100	(11) 81.5 13.5-100	(8) 83.5 12.5-100	(9) 81.2 21.3-100
PAPRH	20.6 5.0-99.0	(18) 61.4 0.0-100	(16) 64.2 0.0-100	(13) 62.8 0.0-100	(6) 48.7 0.0-100	(7) 62.2 0.0-100
VIOAR	31.2 5.0-259.5	(14) 39.4 0.0-98.8	(17) 49.4 0.0-100	(9) 52.5 21.3-100	(9) 37.3 0.0-75.0	(7) 36.7 0.0-80.0
MATCH	20.9 5.0-42.0	(5) 40.6 0.0-88.5	(6) 57.0 0.0-95.0	(5) 59.9 10.0-100	-	(5) 39.3 0.0-94.3
MATIN	23.7 5.0-96.5	(14) 49.1 0.0-100	(16) 57.8 0.0-100	(10) 61.2 0.0-100	(7) 42.1 0.0-100	(6) 66.2 27.5-100
CENCY	20.0 5.0-71.5	(10) 37.2 0.0-99.3	(10) 49.2 0.0-100	(9) 62.5 0.0-100	(6) 49.8 0.0-99.8	(3) 18.8 0.0-37.5

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In post-emergence in autumn with 2.6 l/ha the efficacy of the herbicide was effective (>85%) against APESV, VERPE, GERPU, THLAR and FUMOF.

With 3.5 l/ha the efficacy of the herbicide was effective (>85%) against APESV, VERPE, GERPU, THLAR, LAMPU and FUMOF.

With tested dose rate of 4.4 l/ha the efficacy of the herbicide was effective (>85%) against APESV, POAAN, THLAR, FUMOF and MYOAR.

Where data are available, a dose rate of 4.4 l/ha was much more effective against MYOAR and POAAN than lower dose rates.

**North-east EPPO zone****Pre-emergence application**

Efficacy evaluations for pre emergence weed control in cereals in the north east zone are summarized in this section from 12 trials in winter cereals: winter wheat: 6, winter barley: 2, winter triticale: 2, winter rye: 2, where GLOB1913H was applied at the intended application rates of 2.6, 3.5 and 4.4 L/ha. GLOB1913H was tested at 4.4, 3.5 and 2.6 L/ha (3960, 3150, 2340 g of active substance/ha) at pre-emergence application with a maximum of one application per crop/season with a water content of 150 – 300 L/ha.

Target code	Infestation in the untreated control (PLANT/m <sup>2</sup> )	GLOB1913H at 2.6l/ha	GLOB1913H at 3.5l/ha	GLOB1913H at 4.4l/ha	Roxy 800 EC at 4.0 l/ha	Roxy 800 EC at 5l/ha
ALOMY	46.2 6.0-192.5	(9) 59.1 23.8-95.0	(12) 76.0 42.5-100	(5) 66.2 15.0-99.0	(3) 57.9 10.0-88.8	(6) 61.7 15.0-99.0
APESV	16.4 5.0-52.0	(9) 94.2 67.5-100	(5) 95.8 80.0-100	(1) 100 100	(4) 94.7 80.0-100	-
POAAN	12.3 5.0-19.0	(4) 90.4 71.3-100	-	-	(4) 89.3 71.3-100	-
CENCY	28.3 6.0-66.0	(3) 28.3 7.5-68.8	(2) 10.6 7.5-43.8	-	(2) 19.4 17.5-21.3	-
FUMOF	13.6 12.0-15.3	(2) 82.5 80.0-85.0	(2) 90.0 80.0-100	(2) 85.0 80.0-90.0	-	(2) 92.6 86.3-99.0
GALAP	9.0 5.0-18.3	(12) 79.0 37.5-100	(10) 80.3 31.3-100	(3) 97.2 92.8-100	-	(4) 77.8 22.5-100
GERPU	8.0 5.0-10.0	(4) 96.2 90.0-100	(3) 93.7 81.3-100	(1) 100 100	(1) 93.8 93.8	(1) 100 100
MATCH	21.2 2.3-39	(1) 82.3 82.3	(3) 88.1 80.0-95.0	(1) 98.8 98.8	(1) 88.8 88.8	-
MATIN	9.7 5.0-34.5	(12) 58.8 0.0-100	(10) 69.3 5.0-100	(3) 75.4 46.3-100	(5) 57.0 0.0-98.8	(4) 80.9 70.0-100
PAPRH	10.1 5.0-37.0	(13) 65.9 5.0-100	(10) 72.5 10.0-100	(1) 99.0 99.0	(6) 61.4 7.5-100	-
STEME	10.46 5.0-17.8	(12) 83.0 7.5-100	(11) 89.2 45.0-100	(1) 100 100	(6) 76.6 32.5-100	-
VERPE	32.6 10.0-75.5	(3) 86.3 60.0-100	(3) 84.3 72.5-99.0	-	(2) 88.2 77.5-99.0	-
VERHE	7.0 5.0-9.0	(5) 92.0 73.8-100	(3) 94.6 85.0-100	(1) 75.0 75.0	(1) 91.5 91.5	-
VIOAR	45.0 6.0-294.5	(11) 46.2 0.0-80.0	(9) 55.7 0.0-100	(3) 54.6 0.0-83.8	(4) 52.2 27.5-72.5	-

In pre-emergence in autumn with 2.6l/ha the efficacy of the herbicide was effective (>85%) against APESV, POAAN, GERPU, VERPE and VERHE.

With 3.5 l/ha the efficacy of the herbicide was effective (>85%) against APESV, FUMOF, GERPU, MATCH, STEME and VERHE

With tested dose rate of 4.4 l/ha the efficacy of the herbicide was effective (>85%) against FUMOF and GALAP.

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Where data are available, no expected significant difference in product efficacy was observed between the 3.5 and 4.4 l/ha doses except for GALAP, where a higher dose rate of GLOB1913H resulted in better control of this species.

**POST-EMERGENCE**

A total of 14 trials were carried out in the North east zone to evaluate the efficacy of GLOB1913H for the control of weeds on winter cereals (winter wheat: 5, winter barley: 3, winter triticale: 4 and winter rye: 2). In support, the results of all trials conducted in the North-East climatic zone were combined with the results of the German and Czech trials (22 trials). GLOB1913H was tested at 4.4, 3.5 and 2.6 L/ha (3960, 3150, 2340 g of active substance/ha) at post-emergence application with a maximum of one application with a water content of 150 – 300 L/ha.

Target code	Infestation in the untreated control (PLANT/m <sup>2</sup> )	GLOB1913H at 2.6 l/ha	GLOB1913H at 3.5l/ha	GLOB1913H at 4.4l/ha	Roxy 800 EC at 4.0 l/ha	Roxy 800 EC at 5l/ha
ALOMY	54.5 5.0-225	(10) 59.1 21.3-93.5	(13) 67.7 28.8-100	(5) 59.7 30.0-99.0	(4) 70.4 35.0-92.5	(5) 61.0 15.0-95.0
APESV	27.5 5.0-149	(18) 96.1 86.3-100	(17) 97.2 87.5-100	(13) 99.0 93.8-100	(8) 98.8 95.0-100	-
POAAN	13.3 5.0-28.0	(6) 93.5 73.8-100	(2) 99.5 99.0-100	(1) 99.0 99.0	(4) 90.2 75.0-100	-
CAPBP	13.5 8.0-19.0	(2) 79.1 67.5-90.8	(2) 80.0 66.3-93.8	(2) 88.1 81.3-95.0	(1) 91.3 91.3	-
CENCY	18.4 5.0-71.5	(12) 30.8 0.0-99.3	(12) 42.9 0.0-100	(10) 59.7 0.0-100	(7) 43.8 0.0-99.8	-
FUMOF	11.8 5.0-17.8	(5) 97.0 95.0-100	(5) 98.5 93.0-100	(3) 97.0 91.0-100	(2) 100 100	-
GALAP	11.0 5.0-32.3	(22) 77.0 0.0-100	(19) 77.7 0.0-100	(14) 82.8 17.5-100	(6) 77.1 0.0-100	(7) 68.1 0.0-100
GERPU	11.0 6.0-18.0	(3) 98.3 95.0-100	(4) 97.5 90.0-100	(1) 100 100	-	(1) 100 100
LAMPU	13.2 5.0-33.0	(3) 88.0 80.0-100	(3) 90.6 85.0-99.3	(1) 97.5 97.5	(1) 76.3 76.3	-
MATCH	22.3 5.0-30.8	(5) 40.5 0.0-88.5	(5) 50.4 0.0-89.0	(5) 59.9 10.0-100	-	(5) 39.3 0.0-94.3
MATIN	18.6 5.0-96.5	(18) 51.2 0.0-100	(15) 56.8 0.0-100	(8) 65.4 0.0-100	(8) 39.3 0.0-100	-
MYOAR	16.2 7.0-25.5	(2) 94.4 92.5-95.8	(2) 96.9 96.3-97.5	(2) 98.0 98.0	(1) 98.5 98.5	(1) 97.3 97.3
PAPRH	18.2 5.0-99.0	(23) 62.8 0.0-100	(20) 65.3 0.0-100	(12) 73.6 0.0-100	(11) 49.8 0.0-100	-
STEME	14.38 5.0-83.8	(21) 79.4 8.8-100	(19) 85.6 9.5-100	(10) 88.0 13.5-100	(10) 88.0 12.5-100	-
THLAR	29.0 8.0-50.0	(2) 100 100	(2) 100 100	(2) 100 100	(2) 100 100	-
VERHE	9.0 5.0-13.0	(4) 97.2 88.8-100	(2) 100 100	-	(2) 100 100	-
VERPE	11.5 7.0-18.0	(5) 98.5 92.5-100	(5) 99.8 99.3-100	(3) 100 100	(3) 100 100	-
VIOAR	34.6 5.0-259.5	(19) 45.9 0.0-98.8	(18) 53.3 0.0-100	(8) 65.1 21.3-100	(10) 44.2 0.0-90.0	-

In post-emergence use with 2.6 l/ha the efficacy of the herbicide was effective (>85%) against APESV, POAAN, FUMOF, GERPU, LAMPU, MYOAR, THLAR, VERHE and VERPE.

With 3.5 l/ha the efficacy of the herbicide was effective (>85%) against APESV, POAAN, FUMOF, GERPU, LAMPU, MYOAR, STEME, THLAR, VERHE and VERPE.

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With tested dose rate of 4.4 l/ha the efficacy of the herbicide was effective (>85%) against APESV, CAPBP, FUMOF, MYOAR, STEME, THLAR and VERPE.

Where data are available, a dose rate of 4.4 l/ha was much more effective against CAPBP than lower dose rates.

**South-East zone**

Efficacy evaluations for pre emergence weed control in cereals in the South- east zone are summarized in this section from 5 trials in winter cereals: winter wheat: 2, winter barley: 3, where GLOB1913H was applied at the intended application rates of 2.6 L/ha. GLOB1913H was tested at 2.6 L/ha (2340 g of active substance/ha) at pre-emergence application with a maximum of one application per crop/season with a water content of 150 – 200 L/ha

Target code	Infestation in the untreated control (PLANT/m <sup>2</sup> )	GLOB1913H at 2.6 l/ha	FILON 80 EC at 3l/ha
APESV	17.9 6.0-40	(5) 74.7 17.5-96.3	(5) 75.0 20.0-96.8
POAAN	38.3 33.8-42.8	(2) 93.1 91.3-95.0	(2) 94.4 92.5-96.3
PAPRH	57.3 55.5-59.0	(2) 71.3 70.0-72.5	(2) 75.6 71.3-80.0
STEME	36.1 14.8-67.8	(4) 70.0 32.5-91.3	(4) 85.1 70.0-92.5

In pre-emergence in autumn with 2.6l/ha the efficacy of the herbicide was effective (>85%) against POAAN whereas APESV, PAPRH and STEME were partially controlled.

**POST-EMERGENCE**

Efficacy evaluations for post-emergence weed control in cereals in the South-east zone are summarized in this section from 5 trials in winter cereals: winter wheat: 2, winter barley: 3, where GLOB1913H was applied at the intended application rates of 2.6 L/ha. GLOB1913H was tested at 2.6 L/ha (2340 g of active substance/ha) at post-emergence application with a maximum of one application per crop/season with a water content of 150 – 200 L/ha

Target code	PLANT RATED	Infestation in the untreated control (PLANT/m <sup>2</sup> )	GLOB1913H at 2.6 l/ha	FILON 80 EC at 3l/ha
APESV	PLANT	17.9 6.0-40.0	(5) 85.0 75.0-95.0	86.9 75.0-98.8
POAAN	PLANT	38.3 33.8-42.8	(2) 94.1 92.5-95.6	(2) 93.1 93.1
PAPRH	PLANT	57.3 55.5-59.0	(2) 76.3 75.0-77.5	(2) 77.5 75.0-80.0
STEME	PLANT	36.1 14.8-67.8	(4) 75.5 30.0-93.8	(4) 79.4 45.0-95.6

In post-emergence use with 2.6l/ha the efficacy of the herbicide was effective (>85%) against POAAN and APESV whereas PAPRH and STEME were partially controlled.

**POTATOES****Maritime zone**

A total of 12 trials were carried out in the Maritime EPPO Zone to evaluate the efficacy of GLOB1913H for the control of weeds on potatoes. Those trials have been conducted between 2018 and 2020 in the Czech Republic, France, Germany, and the Netherlands. The proposed maximum rate

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of the product is 4.4 L/ha at pre-emergence application with a maximum of one application per crop/season with a water content of 200 – 300 L/ha.

Target code	Infestation in the untreated control (PLANT/m <sup>2</sup> )	GLOB1913H at 2.6l/ha	GLOB1913H at 4.4l/ha	Roxy 800 EC at 5l/ha
CHEAL	17.6 4.8-43.0	(11) 61.9 25.3-100	(11) 78.1 52.5-100	77.5 60.0-96.5
SOLNI	28.4 5.0-99.5	(7) 64.9 10.0-81.8	(7) 70.8 18.8-92.8	72.3 7.5-92.8
MATIN	10.3 9.5-11.0	(2) 75.0 65.0-85.0	(2) 81.3 77.5-85.0	92.5 85.0-100
POLCO	13.0 5.0-21.0	(2) 45.0 27.5-62.5	(2) 57.5 22.5-92.5	68.5 42.5-94.5
THLAR	18.5 7.0-30.0	(2) 96.9 93.8-100	(2) 98.8 97.5-100	93.1 91.3-95.0

In conclusion, both rates of GLOB1913H gave good control of THLAR. CHEAL, SOLNI and MATIN were only partially controlled at 4.4 l/ha.

**North-east zone**

A total of 8 trials were carried out in the North-east zone to evaluate the efficacy of GLOB1913H for the control of weeds on potatoes. Those trials have been conducted between 2019 and 2020 in Poland, Estonia and Latvia. In support, the results of all trials conducted in the North-East climatic zone were combined with the results of the German and Czech trials (6 trials). The proposed maximum rate of the product is 4.4 L/ha at pre-emergence application with a maximum of one application per crop/season with a water content of 200 – 300 L/ha.

Target code	Infestation in the untreated control (PLANT/m <sup>2</sup> )	GLOB1913H at 2.6l/ha	GLOB1913H at 3.6l/ha	GLOB1913H at 4.4l/ha	BOXER at 5 l/ha	BOXER at 4 l/ha
AMARE	30.5 5.0-80.0	(4) 87.8 73.8-100		(4) 90.6 77.5-100	94.7 80-100	
CAPBP	33.6 11.5-55.7	(2) 91.3 82.5-100	(2) 91.8 83.5-100	-	-	93.1 86.3-100
CHEAL	14.3 6.8-43.0	(11) 73.6 25.3-100	(2) 56.1 35.0-77.3	(11) 87.8 68.8-100	86.5 66.3-100	46.3 40.0-52
GASPA	10.5 7.0-14.0	(2) 91.3 88.8-93.8	-	(2) 95.6 91.3-100	91.3 82.5-100	-
GERPU	5.5 5.0-6.0	(2) 93.1 91.3-95	-	(2) 97.5 96.3-98.8	97.4 95-99.8	
MATIN	9.9 6.0-13.0	(2) 83.4 65-100	-	(2) 87.2 77.5-100	91.6 81.3-100	-
POLCO	8.5 5.0-15.0	(5) 66.8 30-83.8	-	(5) 83.8 61.3-97.5	86.6 65-100	-
POLPE	6.7 6.0-8.0	(3) 87.1 82.5-92.5	-	(3) 92.5 87.5-100	94.6 86.3-100	-
SOLNI	10.5 5.0-30.0	(5) 70.3 56.3-88.8	-	(5) 84.3 62.5-100	(5) 86.1 65-100	-
STEME	42.8 5.0-80.5	(2) 98.6 97.3-100	-	(2) 99.1 98.3-100	(2) 98.5 97-100	
THLAR	18.5 7.0-30.0	(2) 96.9 93.8-100	-	(2) 98.8 97.5-100	93.1 91.3-95	-
VIOAR	10.8 5.0-17.5	(3) 81.7 70.0-90.0	-	(3) 91.2 82.5-98.5	87.1 75-96.3	

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In pre-emergence with 2.6l/ha the efficacy of the herbicide was effective (>85%) against AMARE, CAPBP, GASPA, GERPU, POLPE, STEME and THLAR.

With tested dose rate of 3.6 l/ha the efficacy of the herbicide was effective (>85%) against CAPBP.

With tested dose rate of 4.4 l/ha the efficacy of the herbicide was effective (>85%) against AMARE, CHEAL GASPA, GERPU, MATIN, POLPE, STEME, THLAR and VIOAR.

Where data are available, a dose rate of 4.4 l/ha was much more effective against MATIN and VIOAR than lower dose rate.

#### South-east zone

A total of 3 trials were carried out in the South-East EPPO Zone to evaluate the efficacy of GLOB1913H for the control of weeds on potatoes. Those trials have been conducted during 2020 in the Eastern part of Croatia and in Hungary. The proposed maximum rate of the product is 4.4 L/ha at pre-emergence application with a maximum of one application per crop/season with a water content of 200 – 300 L/ha.

Target code	Infestation in the untreated control (PLANT/m <sup>2</sup> )	GLOB1913H at 2.6l/ha	GLOB1913H at 4.4l/ha	Filon/Fidox at 5l/ha
AMBEL	10.5 6.0-15.0	(2) 59.6 30-89.3	(2) 76.3 60-92.5	56.8 20-93.5
CHEAL	13.7 6.0-20.2	(3) 79.6 70-92.5	(3) 87.9 82.5-95	88.5 82.5-95
SOLNI	6.5 6.0-7.0	(2) 44.4 20-68.8	(2) 54.4 26.3-82.5	49.7 18.8-80.6

In conclusion, both rates of GLOB1913H gave good control of CHEAL. AMBEL was only partially controlled at 4.4 l/ha.

### 3.3 Information on the occurrence or possible occurrence of the development of resistance (KCP 6.3)

GLOB1913H is an emulsifiable concentrate formulation (EC) containing the active ingredient prosulfocarb (900 g/L) for pre and post-emergence weed control in cereals and pre-emergence weed control on potatoes. The proposed maximum label rate is 4.4 L/ha in the Central zone.

A resistance risk analysis is carried out in accordance with the EPPO guideline 1/213 (4).

#### Mode of action

Prosulfocarb (HRAC/WSSA Group 15 - former N) inhibits fatty acid elongase enzymes, altering cell membranes and disrupting vital cell processes.

#### Evidence of resistance

Resistance events have been reported in Europe for the MoA group to which the active substance present in GLOB1913H belongs (group 15 (former N)). The following table summarizes these reports<sup>1</sup>.

<sup>1</sup> Heap, I. The International Herbicide-Resistant Weed Database. Online. Accessed on August, 2021. Available at [www.weedscience.org](http://www.weedscience.org)

**Table 3.3-1 Resistance events reported to MoA groups 15 (former N) in EU (+ UK) on arable crops**

Year	Species	Country	MOAs	Actives	Crops
2018	<i>Lolium perenne</i> <i>ssp. multiflorum</i>	France, UK	Very Long-Chain Fatty Acid Synthesis inhibitors HRAC Group 15 (Legacy K3 N)	flufenacet	Wheat
2007	<i>Alopecurus myosuroides</i>	Germany	Inhibition of Acetolactate Synthase HRAC Group 2 (Legacy B), Inhibition of Acetyl CoA Carboxylase HRAC Group 1 (Legacy A), PSII inhibitors - Serine 264 Binders HRAC Group 5 (Legacy C1 C2), Very Long-Chain Fatty Acid Synthesis inhibitors HRAC Group 15 (Legacy K3 N)	fenoxaprop-ethyl, isoproturon, chlorotoluron, flufenacet, mesosulfuron-methyl, pinoxaden	Wheat
2011	<i>Alopecurus myosuroides</i>	Sweden	Inhibition of Acetolactate Synthase HRAC Group 2 (Legacy B), Inhibition of Acetyl CoA Carboxylase HRAC Group 1 (Legacy A), Very Long-Chain Fatty Acid Synthesis inhibitors HRAC Group 15 (Legacy K3 N)	fenoxaprop-ethyl, flupyrsulfuron-methyl-Na, <b>prosulfocarb</b> , pyroxsulam	Wheat

Resistance for compounds of the Lipid Inhibitors family excluding are mostly reported outside Europe and are therefore considered scarcely relevant. Only one resistance case for prosulfocarb was detected in Sweden for Blackgrass (*Alopecurus myosuroides*), a monocot weed in the Poaceae family. *A. myosuroides* is a monocot weed in the Poaceae family. It is one of the most important grass weeds on arable land and has developed herbicide-resistant populations from many years. ACCase- (Group A) and ALS-inhibiting herbicides (Group B), in particular, have lost significant efficacy. Blackgrass resistance to herbicides is especially a problem in Belgium and the UK.

### Cross-resistance

According to HRAC, there have been few reports of target site resistance to herbicides with modes of action other than ALS, ACCase, or PS2. Where such reports are available, there are few cross resistance studies and relatively few studies with the target site *in vitro*.

Based on this information, it is considered that the risk of resistance development is negligible.

### Sensitivity data

No studies on baseline sensitivity data are available to the applicant

### Use pattern

The use pattern is detailed in the GAP table: applications are made to winter cereals and potatoes with one applications per year. Application should be performed either pre-emergence or post-emergence on cereals (BBCH10-29) and only pre-emergence on potatoes.

### Resistance risk assessment of unrestricted use pattern & Acceptability of the resistance risk

Target weeds for GLOB1913H produce only one generation per year and therefore development of resistance in general is a relatively slow process. A typical weed control scheme in arable crops as cereals or potatoes consists of a mixture of different active ingredients, applied all together. GLOB1913H is a valuable tool in those schemes. Due to the common practice of mixing with different modes of action, the risk for development of resistance is considered to be low. Moreover, GLOB1913H is only applied once per year. Based on this information, it is considered that the risk of resistance development is negligible for all target weeds.

### Management strategy

In view of the very low risk, it is considered that no specific resistance risk management should be followed for GLOB1913H. However, mixtures or sequences of herbicides with differing modes of action are important especially to prevent or overcome resistance based on target site differences. Crop rotations may allow different herbicides or cultivation techniques to be used and may also provide different competitive environments to shift the weed flora. As precautionary approach we advise to mention the following warning on the label:

As strains of some annual grasses (e.g. black-grass, wild-oats, and Italian rye-grass) have developed resistance to a range of herbicides which may lead to poor control from one or more products or mode of action, a general strategy for preventing and managing such resistance should be adopted, in accordance with HRAC.

### Proposed resistance management strategy

The main resistance management strategies currently recommended are: monitoring the field regularly, follow the conditions indicated in the product label (do not apply at a rate higher or lower than the recommended rate or too early or too late), integrating chemical and agronomical methods, rotating crops with different cycles, selecting more competitive varieties, delaying the date of planting, conventional tillage, mechanical weeding. Wherever feasible, several strategies should be used together.

Thus the proposed resistance strategy should follow the general principles of weed resistance management: (source: HRAC website):

1. Apply integrated weed management practices. Use multiple herbicide modes-of-action with overlapping weed spectrums in rotation, sequences, or mixtures.
2. Use the full recommended herbicide rate and proper application timing for the hardest to control weed species present in the field.
3. Scout fields after herbicide application to ensure control has been achieved. Avoid allowing weeds to reproduce by seed or to proliferate vegetatively.
4. Monitor site and clean equipment between sites.

Comments of zRMS:	The applicant addresses all points of EPPO Standard 1/213 (4). The applicant provided a comprehensive overview of the current resistance status and the risk of resistance developing with prosulfocarb. The zRMS considers that the risk assessment is acceptable. It can be concluded that the overall agronomic resistance risk implemented by GLOB1913H has to be regarded as low to medium under current normal European agricultural practice.
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	The principles for use of GLOB1913H given by the applicant are consistent with HRAC guidance. It is expected that cMS will implement HRAC recommendations unless their national guidelines indicate more restrictive resistance management measures are required.
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### Adverse effects on treated crops (KCP 6.4)

Adverse effects on the treated crops were assessed in separate selectivity trials. Phytotoxicity was also determined in the efficacy trials described above in 3.2.3 (KCP 6.2).

In support of authorizations in the Central zone, specific selectivity trials covering the Maritime, North-East and South-East EPPO zones are presented. In support of authorizations in the South zone, specific selectivity trials covering the Maritime, South-East and Mediterranean EPPO zones are presented.

Information on trials submitted is presented in the tables below. The trials were carried out by officially recognised organisations in accordance with the principles of Good Experimental Practice.

**Table 0-1 Presentation of selectivity trials on cereals – pre-emergence application**

Crop	Country	Years	Type of trial**	Number of trials				GEP, non-GEP, official***
				Marit. zone	North-East zone	South-East zone	Medit. Zone	
HORVW	CZ	2019	S+Y+Q	1				GEP
	DE	2018	S+Y+Q	1				GEP
	DK	2020	S+Y+Q	1				GEP
	ES	2019	S+Y+Q				2	GEP
	EE	2021	S+Y+Q		1			GEP
	FR	2019	S+Y+Q				1	GEP
	HR	2018	S+Y+Q				1	GEP
		2019	S+Y+Q				1	GEP
	HU	2021	S+Y+Q			1		GEP
	IT	2019	S+Y+Q				1	GEP
		2020	S+Y+Q				1	GEP
	LT	2020	S+Y+Q		2			GEP
	LV	2021	S+Y+Q		2			GEP
	NL	2019	S+Y+Q	1				GEP
	PL	2019	S+Y+Q		2			GEP
HORVW Total				4	7	1	7	-
SECCW	CZ	2019	S+Y+Q	1				GEP
	DE	2019	S+Y+Q	1				GEP
	EE	2020	S+Y+Q		1			GEP
	FR	2019	S+Y+Q	1				GEP
	LT	2020	S+Y+Q		1			GEP
	PL	2019	S+Y+Q		3			GEP
	SE	2020	S+Y+Q	1				GEP
SECCW Total				4	5			-
TRZAW	CZ	2019	S+Y+Q	1				GEP
	DK	2020	S+Y+Q	1				GEP
	ES	2019	S+Y+Q				1	GEP
		2020	S+Y+Q				1	GEP
	EE	2020	S+Y+Q		1			GEP
	FR	2018	S+Y+Q	1				GEP
		2019	S+Y+Q				1	GEP
	HR	2020	S+Y+Q				1	GEP
	HU	2021	S+Y+Q			1		GEP

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Crop	Country	Years	Type of trial**	Number of trials				GEP, non-GEP, official***
				Marit. zone	North-East zone	South-East zone	Medit. Zone	
	IT	2019	S+Y+Q				1	GEP
	LV	2020	S+Y+Q		1			GEP
	NL	2019	S+Y+Q	1				GEP
	PL	2018	S+Y+Q		1			GEP
		2019	S+Y+Q	1	1			GEP
	SE	2020	S+Y+Q	1				GEP
TRZAW Total				6	4	1	5	-
TRZDW	ES	2019	S+Y+Q				2	GEP
	FR	2019	S+Y+Q	1			1	GEP
		2020	S+Y+Q	2			1	GEP
	HR	2019	S+Y+Q				1	GEP
	IT	2019	S+Y+Q				1	GEP
		2020	S+Y+Q				2	GEP
TRZDW Total				3			8	-
TTLWI	DE	2019	S+Y+Q	1				GEP
	DK	2020	S+Y+Q	1				GEP
	FR	2019	S+Y+Q	1			1	GEP
	IT	2019	S+Y+Q				1	GEP
	LT	2020	S+Y+Q		1			GEP
	LV	2020	S+Y+Q		1			GEP
	PL	2019	S+Y+Q		2			GEP
TTLWI Total				3	4		2	-
Overall total		2018-2021		20	20	2	22	64

**Table 0-2 Presentation of selectivity trials on cereals – post-emergence application**

Crop	Country	Years	Type of trial**	Number of trials				GEP, non-GEP, official***
				Marit. zone	North-East zone	South-East zone	Medit. Zone	
HORVW	CZ	2019	S+Y+Q	1				GEP
	ES	2019	S+Y+Q				1	GEP
	FR	2019	S+Y+Q	1			1	GEP
	HR	2018	S+Y+Q				1	GEP
		2019	S+Y+Q				1	GEP
	HU	2021	S+Y+Q			1		GEP
	IT	2019	S+Y+Q				1	GEP
		2020	S+Y+Q				1	GEP
	LT	2020	S+Y+Q		1			GEP
	LV	2020	S+Y+Q		1			GEP
	PL	2019	S+Y+Q		1			GEP
	SE	2020	S+Y+Q	1				GEP
HORVW Total				3	3	1	6	-
SECCW	CZ	2019	S+Y+Q	1				GEP
	DK	2020	S+Y+Q	1				GEP
	EE	2020	S+Y+Q		1			GEP
	FR	2018	S+Y+Q	1				GEP
	LV	2020	S+Y+Q		1			GEP
	PL	2019	S+Y+Q		1			GEP
SECCW Total				3	3			-
TRZAW	CZ	2019	S+Y+Q	1				GEP
	DK	2020	S+Y+Q	1				GEP
	ES	2019	S+Y+Q				2	GEP
		2020	S+Y+Q				1	GEP
	EE	2020	S+Y+Q		1			GEP
	FR	2019	S+Y+Q				1	GEP
		2020	S+Y+Q				1	GEP
	HR	2019	S+Y+Q				2	GEP
	HU	2021	S+Y+Q			1		GEP
	IT	2018	S+Y+Q				1	GEP

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Crop	Country	Years	Type of trial**	Number of trials				GEP, non-GEP, official***
				Marit. zone	North-East zone	South-East zone	Medit. Zone	
		2019	S+Y+Q				3	GEP
	LV	2020	S+Y+Q		1			GEP
	NL	2019	S+Y+Q	1				GEP
	PL	2019	S+Y+Q		1			GEP
	SE	2020	S+Y+Q	1				GEP
TRZAW Total				4	3	1	11	-
TRZDW	ES	2019	S+Y+Q				2	GEP
	FR	2019	S+Y+Q	1			1	GEP
		2020	S+Y+Q	2			1	GEP
	HR	2020	S+Y+Q				1	GEP
	IT	2019	S+Y+Q				1	GEP
		2020	S+Y+Q				1	GEP
TRZDW Total				3			7	-
TTLWI	DE	2019	S+Y+Q	1				GEP
	FR	2018	S+Y+Q	1				GEP
		2019	S+Y+Q				1	GEP
	IT	2019	S+Y+Q				1	GEP
	LV	2020	S+Y+Q		1			GEP
	PL	2018	S+Y+Q	1				GEP
		2019	S+Y+Q		1			GEP
	SE	2020	S+Y+Q	1				GEP
TTLWI Total				4	2		2	-
Overall total		2018-2021		17	11	2	26	56

**Table 0-3 Presentation of selectivity trials on potatoes – pre-emergence application**

Crop	Country	Years	Type of trial**	Number of trials				GEP, non-GEP, official***
				Marit. zone	North-East zone	South-East zone	Medit. Zone	
SOLTU	CZ	2020	S+Y+Q	2				GEP
	DE	2020	S+Y+Q	2				GEP
	NL	2020	S+Y+Q	1				GEP
	PL	2020	S+Y+Q		2			GEP
	HU	2020	S+Y+Q			3		GEP
	IT	2021	S+Y+Q				2	
Overall total		2020	-	5	2	3	2	12

\*\* S= selectivity trial, Y= trial with yield assessment, Q= trial with quality assessment

Both the highest target dose and the double dose rate of GLOB1913H were tested and compared to the standard treatment. In countries outside Northern zone the highest target dose will be 4 L/ha (tested rate 4.4 L/ha) while in countries of the Northern zone it will be 3.5 L/ha. This was reflected in the trial protocols for those countries. Durum wheat represents an exception as the rate of 2.6 L/ha was the maximum tested, following requested rate and currently authorized amount of prosulfocarb for the reference products (i.e. France). Reference standards used in trials are presented in Table 0-4.

Information on trial methodology is summarized below for each crop group and EPPO climatic zones. Trial site information and application details are presented in Appendix 3 of the Biological Assessment Dossier.

**Table 0-4 Presentation of reference standards used in selectivity trials**

Crop(s)	Reference standard	Country(ies) where the product is registered <sup>(1)</sup>	Authorization number	Active substance(s)	Formulation		Registered application rate <sup>(3)</sup>	Application rate in trials (per treatment)	Remark <sup>(4)</sup>
					Type <sup>(2)</sup>	Concentration of a.s.			
Winter cereals	Boxer	NL	10701	prosulfocarb	EC	800 g/L	5 L/ha	N: 4 L/ha 2N: 8 L/ha	
		DK	1-211	prosulfocarb	EC	800 g/L	1.5-5 L/ha	N: 5 L/ha 2N: 10 L/ha	
		DE	033838-00	Prosulfocarb	EC	800 g/L	Max. 5 L/ha	N: 5 L/ha 2N: 10 L/ha	
		CZ	4566-0	Prosulfocarb	EC	800 g/L	3 L/ha	N: 4 L/ha 2N: 8 L/ha	
		SE	3887	prosulfocarb	EC	800 g/L	1.5-5 L/ha	N: 5 L/ha 2N: 10 L/ha	
		LV	0271	prosulfocarb	EC	800 g/L	1.5-2.5 L/ha	N:2.5/4 L/ha 2N: 5/8 L/ha	
		PL	R- 88/2015	prosulfocarb	EC	800 g/L	3 L/ha	N:3-4 L/ha 2N:6-8 L/ha	
	Roxo 800 EC	CZ	4929	prosulfocarb	EC	800 g/L	4 L/ha	N: 4 L/ha 2N: 8 L/ha	
		NL	13164 N	prosulfocarb	EC	800 g/L	Max. 5 L/ha	N: 5 L/ha 2N: 10 L/ha	
		FR	2090186	prosulfocarb	EC	800 g/L	Max. 5 L/ha	N: 5 L/ha 2N: 10 L/ha	
		IT	012799	prosulfocarb	EC	800 g/L	3.8-5 L/ha	N: 4 L/ha 2N: 8 L/ha	Registered on wheat and barley: 3.8-4 L/ha on rye and triticale: 5 L/ha
		PL	R-31/2016 wu	prosulfocarb	EC	800 g/L	4 L/ha	N: 4 L/ha 2N: 8 L/ha	
	Filon 80 EC	HR	753	prosulfocarb	EC	800 g/L	3-5 L/ha	N: 5 L/ha 2N: 10 L/ha	
	Auros	ES	24737	prosulfocarb	EC	800 g/L	3-5 L/ha	N: 5 L/ha 2N: 10 L/ha	
	Défi	FR	8700462	prosulfocarb	EC	800 g/L	3-5 L/ha	N: 5 L/ha 2N: 10 L/ha	
	Fidox 800 EC	HU	04.2/2504	prosulfocarb	EC	800 g/L	3 L/ha	N: 3 L/ha 2N: 6 L/ha	
		NL	15029	prosulfocarb	EC	800 g/L	Max. 4 L/ha	N: 4 L/ha 2N: 8 L/ha	
	Fosbury	FR	2080145	flufenacet diflufenican	SC	400 g/L 200 g/L	0.6 L/ha	N:0.6 L/ha 2N:1.2 L/ha	
	Herold	ES	25621	flufenacet diflufenican	SC	400 g/L 200 g/L	Max. 0.6 L/ha	N:0.6 L/ha 2N:1.2 L/ha	
	Battle Delta	IT	016041	diflufenican flufenacet	SC	200 g/L 400 g/L	0.6 L/ha	N:0.6 L/ha 2N:1.2 L/ha	
	Fuga Delta	HR	1162	diflufenican flufenacet	SC	200 g/L 400 g/L	0.6 L/ha	N:0.6 L/ha 2N:1.2 L/ha	
	Jura EC	DE	008324-00	prosulfocarb diflufenican	EC	667 g/L 14 g/L	4 L/ha	N: 4 L/ha 2N: 8 L/ha	

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Crop(s)	Reference standard	Country(ies) where the product is registered <sup>(1)</sup>	Authorization number	Active substance(s)	Formulation		Registered application rate <sup>(3)</sup>	Application rate in trials (per treatment)	Remark <sup>(4)</sup>
					Type <sup>(2)</sup>	Concentration of a.s.			
Potato	Boxer 800 EC	PL	R-88/2015	prosulfocarb	EC	800 g/L	3-5 L/ha	N: 5 L/ha 2N: 10 L/ha	
	Boxer	CZ	4566-0	prosulfocarb	EC	800 g/L	5 L/ha	N: 5 L/ha 2N: 10 L/ha	
		DE	033838-00	prosulfocarb	EC	800 g/L	Max.5 L/ha	N: 5 L/ha 2N: 10 L/ha	
	Roxy 800 EC	IT	012799	prosulfocarb	EC	800 g/L	5 L/ha	N: 5 L/ha 2N: 10 L/ha	
	Fidox 800 EC	HU	04.2/2504-1/2017	prosulfocarb	EC	800 g/L	5 L/ha	N: 5 L/ha 2N: 10L/ha	
		NL	15029 N	prosulfocarb	EC	800 g/L	Max. 4 L/ha	N: 4 L/ha 2N: 8 L/ha	

(1) only on use(s) applied for (with the test product).

(2) e.g. WP (wetttable powder), EC (emulsifiable concentrate), etc.

(3) dose(s) / dose range authorized on that use in the country.

(4) Other relevant information (e.g. uses, number of applications, spray volume, method of application, etc.).

### Trial methodology – Cereals – pre-emergence application

**Table 0-5**                      **Details on trial methodology from selectivity trials on cereals – pre-em application – Maritime EPPO zone**

<b>Guidelines</b>	General guidelines	PP 1/135(4), EPPO PP 1/152 (4), PP 1/181(4)
	Specific guidelines	EPPO PP 1/93(3)
<b>Experimental design</b>	Plot design	RCBD (20)
	Plot size	12-36 m <sup>2</sup>
	Number of replications	4 (20)
<b>Crop</b>	Trials per crop	Soft Winter wheat: 6 Durum Winter wheat: 3 Winter barley: 4 Winter triticale: 3 Winter rye: 4
	Varieties per crop	Soft Winter wheat: Graindor, Bohemia, KWS Talent, Viriato, Skyscraper, Hereford Durum Winter wheat: Anvergur, Envergur, RGT Voilur Winter barley: KWS Kosmos, KWS Meridian Winter triticale: Elicsir, Neogen, Barolo Winter rye: Inspector, HelTop, Dankowskie rubin, Herakles
	Sowing period	Soft Winter wheat: 28/09-28/11 Durum Winter wheat: 05/11-03/12 Winter barley: 02/10-31/10 Winter triticale: 30/09-02/11 Winter rye: 26/09-04/11
<b>Application</b>	Crop stage majority (BBCH) at application	Soft Winter wheat: <10 Durum Winter wheat: <10 Winter barley:<10 Winter triticale:<10 Winter rye:<10
	Timing	Pre-emergence
	Pest stage majority (BBCH) at application (1)	weed-free
	Number of applications	1
	Intervals between applications	-
<b>Assessment</b>	Spray volumes	150-300 L/ha
	Assessment types	Phytotoxicity: PHYGEN (general phyto) PHYBLE (% bleaching) PHYCHL (% chlorosis) PHYCOL (phytotoxicity - color change) PHYDEL (delay in reaching growth stage) PHYVOR (volume reduction) Yield Quality (HLW, TKW)
	Assessment dates	First PHYGEN assessment at 14 DA-A 3 assessments during the season for phytotoxicity, including early spring and BBCH 37-39 After harvest for quality and yield parameters
<b>Other relevant information</b>	Soil types	silt loam, clay, loam, sandy clay, silty clay loam, fine loam, loamy sand, sandy loam, clay loam, calcareous clay, loamy clay, silty loamy sand, sandy clay loam
	Field / Greenhouse	Field conditions

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**Table 0-6**                      **Details on trial methodology from selectivity trials on cereals – pre-em application – North-East EPPO zone**

<b>Guidelines</b>	General guidelines	PP 1/135(4), EPPO PP 1/152 (4), PP 1/181(4)
	Specific guidelines	EPPO PP 1/93(3)
<b>Experimental design</b>	Plot design	RCBD (20)
	Plot size	12-30 m <sup>2</sup>
	Number of replications	4 (20)
<b>Crop</b>	Trials per crop	Soft Winter wheat: 4 Winter barley: 7 Winter triticale: 4 Winter rye: 5
	Varieties per crop	Soft Winter wheat: Kepler, Kallas, Kena DS Winter barley: Veronika, KWS Meridian, Mizzi, KWS Kosmos, Carola Winter triticale: Porto, Tadeus, Sequenz, Cappricia Winter rye: Serafino, Dankowskie Diament, Elvi, Elias
	Sowing period	Soft Winter wheat: 24/09-11/10 Winter barley: 14/09-28/10 Winter triticale: 20/09-25/10 Winter rye: 28/09-21/10
<b>Application</b>	Crop stage majority (BBCH) at application	Soft Winter wheat: <10 Winter barley:<10 Winter triticale:<10 Winter rye: <10
	Timing	Pre-emergence
	Pest stage majority (BBCH) at application	weed-free
	Number of applications	1
	Intervals between applications	-
	Spray volumes	150-300 L/ha
<b>Assessment</b>	Assessment types	Phytotoxicity: PHYGEN (general phyto) PHYBLE (% bleaching) PHYCHL (% chlorosis) PHYSTU (% stunting) PHYTHI (% thinnig) PHYNLT (necrosis, leaf tip) PHYVOR (volume reduction) Yield Quality (HLW, TKW)
	Assessment dates	First PHYGEN assessment at 14 DA-A 3 assessments during the season for phytotoxicity, including early spring and BBCH 37-39 After harvest for quality and yield parameters
<b>Other relevant information</b>	Soil types	sandy loam, loamy sand, calcareous clay loam, sandy clay loam, loam, sandy clay
	Field / Greenhouse	Field conditions

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**Table 0-7**                      **Details on trial methodology from selectivity trials on cereals – pre-em application – South-East EPPO zone**

<b>Guidelines</b>	General guidelines	PP 1/135(4), EPPO PP 1/152 (4), PP 1/181(4)
	Specific guidelines	EPPO PP 1/93(3)
<b>Experimental design</b>	Plot design	RCBD (2)
	Plot size	21-22.5 m <sup>2</sup>
	Number of replications	4 (2)
<b>Crop</b>	Trials per crop	Soft Winter wheat: 1 Winter barley: 1
	Varieties per crop	Soft Winter wheat: Limberg Winter barley: SU Jule
	Sowing period	Soft Winter wheat: 30/10 Winter barley: 27/10
<b>Application</b>	Crop stage majority (BBCH) at application	Soft Winter wheat: <10 Winter barley: <10
	Timing	Pre-emergence
	Pest stage majority (BBCH) at application	weed-free
	Number of applications	1
	Intervals between applications	-
	Spray volumes	200 L/ha
<b>Assessment</b>	Assessment types	Phytotoxicity: PHYGEN (general phyto) PHYBLE (% bleaching) PHYTHI (% thinnig) Yield Quality (HLW, TKW)
	Assessment dates	First PHYGEN assessment at 14 DA-A 3 assessments during the season for phytotoxicity, including early spring and BBCH 37-39 After harvest for quality and yield parameters
<b>Other relevant information</b>	Soil types	sandy loam, clay loam
	Field / Greenhouse	Field conditions

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**Table 0-8**                      **Details on trial methodology from selectivity trials on cereals – pre-em application – Mediterranean EPPO zone**

<b>Guidelines</b>	General guidelines	PP 1/135(4), EPPO PP 1/152 (4), PP 1/181(4)
	Specific guidelines	EPPO PP 1/93(3)
<b>Experimental design</b>	Plot design	RCBD (22)
	Plot size	12-25 m <sup>2</sup>
	Number of replications	4 (22)
<b>Crop</b>	Trials per crop	Soft Winter wheat: 5 Durum Winter wheat: 8 Winter barley: 7 Winter triticale: 2
	Varieties per crop	Soft Winter wheat: Tocaño, Solindo, Giorgione, Akim, Falado Durum Winter wheat: Euroduro, Avispa, Anvergur, Levante, Brancalone Winter barley: Zlatko, Treveler, Rafaela, Barun, Calanque, Meseta Winter triticale: Fido, Vivacio
	Sowing period	Soft Winter wheat: 21/10-30/11; 15/01 (1x) Durum Winter wheat: 22/10-11/12 Winter barley: 26/10-04/12 Winter triticale: 14/11-06/12
<b>Application</b>	Crop stage majority (BBCH) at application	Soft Winter wheat: <10 Durum Winter wheat: <10 Winter barley:<10 Winter triticale:<10
	Timing	Pre-emergence
	Pest stage majority (BBCH) at application	weed-free
	Number of applications	1
	Intervals between applications	-
	Spray volumes	150-300 L/ha
<b>Assessment</b>	Assessment types	Phytotoxicity: PHYGEN (general phyto) PHYBLE (% bleaching) PHYSTU (% stunting) PHYTHI (% thinnig) PHYCOL (phytotoxicity - color change) PHYNEC (phytotoxicity - necrosis) PHYDEL (delay in reaching growth stage) Yield Quality (HLW, TKW)
	Assessment dates	First PHYGEN assessment at 14 DA-A 3 assessments during the season for phytotoxicity, including early spring and BBCH 37-39 After harvest for quality and yield parameters
<b>Other relevant information</b>	Soil types	clay, sand, sandy loam, silt, loam, silt loam, silty clay loam, clay loam, silty clay, sandy clay
	Field / Greenhouse	Field conditions

### Trial methodology – Cereals – post-emergence application

**Table 0-9**                      **Details on trial methodology from selectivity trials on cereals – post-em application – Maritime EPPO zone**

<b>Guidelines</b>	General guidelines	PP 1/135(4), EPPO PP 1/152 (4), PP 1/181(4)
	Specific guidelines	EPPO PP 1/93(3)
<b>Experimental design</b>	Plot design	RCBD (17)
	Plot size	12-36 m <sup>2</sup>
	Number of replications	4 (17)
<b>Crop</b>	Trials per crop	Soft Winter wheat: 4 Durum Winter wheat: 3 Winter barley: 3 Winter triticale: 4 Winter rye: 3
	Varieties per crop	Soft Winter wheat: Tobak, KWS Talent, Informer, Linus Durum Winter wheat: Voilur, Envergur, Anvergur Winter barley: Fabian, Jettoo, Verity Winter triticale: Trapero, Omeac, Barolo, Cappricia Winter rye: Dankowskie robin, Inspector, Serafino
	Sowing period	Soft Winter wheat: 21/09-28/10 Durum Winter wheat: 07/11-25/11 Winter barley: 20/09-12/10 Winter triticale: 22/09-02/11 Winter rye: 20-09-06/11
<b>Application</b>	Crop stage majority (BBCH) at application	Soft Winter wheat: 12 Durum Winter wheat: 11-13 Winter barley: 11-12 Winter triticale: 11-12 Winter rye: 11-13
	Timing	Post-emergence
	Pest stage majority (BBCH) at application	weed-free
	Number of applications	1
	Intervals between applications	-
	Spray volumes	150-300 L/ha
<b>Assessment</b>	Assessment types	Phytotoxicity: PHYGEN (general phyto) PHYBLE (% bleaching) PHYCHL (% chlorosis) PHYDEL (delay in reaching growth stage) PHYDIS (phytotoxicity - discoloration) PHYNEC (phytotoxicity - necrosis) PHYTHI (% thinnig) PHYNLB (necrosis, leaf blotch) PHYVOR (volume reduction) Yield Quality (HLW, TKW)
	Assessment dates	First PHYGEN assessment at 14 DA-A 3 assessments during the season for phytotoxicity, including early spring and BBCH 37-39

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		After harvest for quality and yield parameters
<b>Other relevant information</b>	Soil types	loamy sand, silt loam, clay sandy loam, clay loam, loam, sandy silt, sandy clay, sandy loam, loamy clay, sandy clay loam, silty clay
	Field / Greenhouse	Field conditions

**Table 0-10**                      **Details on trial methodology from selectivity trials on cereals – post-em application – North-East EPPO zone**

<b>Guidelines</b>	General guidelines	PP 1/135(4), EPPO PP 1/152 (4), PP 1/181(4)
	Specific guidelines	EPPO PP 1/93(3)
<b>Experimental design</b>	Plot design	RCBD (11)
	Plot size	20-30 m <sup>2</sup>
	Number of replications	4 (11)
<b>Crop</b>	Trials per crop	Soft Winter wheat: 3 Winter barley: 3 Winter triticale: 2 Winter rye: 3
	Varieties per crop	Soft Winter wheat: Patras, Ada, Etana Winter barley: Ida, KWS Meridian Winter triticale: Cappricia, Sekret Winter rye: Hadron, Elvi, SU Performer
	Sowing period	Soft Winter wheat: 18/09-09/10 Winter barley: 17/09-27/09 Winter triticale: 18/09-03/10 Winter rye: 12/09-28/09
<b>Application</b>	Crop stage majority (BBCH) at application	Soft Winter wheat: 12 Winter barley: 11-12 Winter triticale: 11-12 Winter rye: 11-13
	Timing	Post-emergence
	Pest stage majority (BBCH) at application	weed-free
	Number of applications	1
	Intervals between applications	-
	Spray volumes	150-300 L/ha
<b>Assessment</b>	Assessment types	Phytotoxicity: PHYGEN (general phyto) PHYBLE (% bleaching) PHYNEC (% necrosis) PHYTHI (% thinnig) Yield Quality (HLW, TKW)
	Assessment dates	First PHYGEN assessment at 14 DA-A 3 assessments during the season for phytotoxicity, including early spring and BBCH 37-39 After harvest for quality and yield parameters
<b>Other relevant information</b>	Soil types	sandy loam, sandy clay, calcareous clay loam, loam, sandy clay loam, loamy sand
	Field / Greenhouse	Field conditions

**Table 0-11**                      **Details on trial methodology from selectivity trials on cereals – post-em application – South-East EPPO zone**

<b>Guidelines</b>	General guidelines	PP 1/135(4), EPPO PP 1/152 (4), PP 1/181(4)
	Specific guidelines	EPPO PP 1/93(3)
<b>Experimental design</b>	Plot design	RCBD (2)
	Plot size	21-22.5 m <sup>2</sup>
	Number of replications	4 (2)
<b>Crop</b>	Trials per crop	Soft Winter wheat: 1 Winter barley: 1
	Varieties per crop	Soft Winter wheat: Limberg Winter barley: SU Jule
	Sowing period	Soft Winter wheat: 30/10 Winter barley: 27/10
<b>Application</b>	Crop stage majority (BBCH) at application	Soft Winter wheat: 12 Winter barley: 11
	Timing	Post-emergence
	Pest stage majority (BBCH) at application	weed-free
	Number of applications	1
	Intervals between applications	-
	Spray volumes	200 L/ha
<b>Assessment</b>	Assessment types	Phytotoxicity: PHYGEN (general phyto) PHYBLE (% bleaching) PHYTHI (% thinnig) Yield Quality (HLW, TKW)
	Assessment dates	First PHYGEN assessment at 14 DA-A 3 assessments during the season for phytotoxicity, including early spring and BBCH 37-39 After harvest for quality and yeild parameters
<b>Other relevant information</b>	Soil types	sandy loam, clay loam
	Field / Greenhouse	Field conditions

**Table 0-12**                      **Details on trial methodology from selectivity trials on cereals – post-em application – Mediterranean EPPO zone**

<b>Guidelines</b>	General guidelines	PP 1/135(4), EPPO PP 1/152 (4), PP 1/181(4)
	Specific guidelines	EPPO PP 1/93(3)
<b>Experimental design</b>	Plot design	RCBD (26)
	Plot size	12-24 m <sup>2</sup>
	Number of replications	4 (26)
<b>Crop</b>	Trials per crop	Soft Winter wheat: 11 Durum Winter wheat: 7 Winter barley: 6 Winter triticale: 2
	Varieties per crop	Soft Winter wheat: Sirtaki, TOCAÑO, Falado, Giorgione, Rebelde, Ingenio, Akim, Tiepolo Durum Winter wheat: Levante, Euro Duro, Avispa, Anvergur, Pigreco Winter barley: Zlatko, Treveler, Memento, Barun, Idra, Bente Winter triticale: Fido, Vivacio
	Sowing period	Soft Winter wheat: 13/10-30/11 Durum Winter wheat: 20/10-09/12 Winter barley: 07/10-15/11 Winter triticale: 06-11/12
<b>Application</b>	Crop stage majority (BBCH) at application	Soft Winter wheat: 11-14 Durum Winter wheat: 11-14 Winter barley: 11-14 Winter triticale: 14
	Timing	Post-emergence
	Pest stage majority (BBCH) at application	weed-free
	Number of applications	1
	Intervals between applications	-
	Spray volumes	150-300 L/ha
<b>Assessment</b>	Assessment types	Phytotoxicity: PHYGEN (general phyto) PHYBLE (% bleaching) PHYNEC (% necrosis) PHYSTU (% stunting) PHYTHI (% thinnig) Yield Quality (HLW, TKW)
	Assessment dates	First PHYGEN assessment at 14 DA-A 3 assessments during the season for phytotoxicity, including early spring and BBCH 37-39 After harvest for quality and yield parameters
<b>Other relevant information</b>	Soil types	sandy loam, clay, clay loam, silt, sand, silt loam, loam, silty clay loam, sandy silt
	Field / Greenhouse	Field conditions

### Trial methodology - Potatoes

**Table 0-13**                      **Details on trial methodology from selectivity trials on potatoes – Maritime EPPO zone**

<b>Guidelines</b>	General guidelines	PP 1/135(4), EPPO PP 1/152 (4), PP 1/181(4)
	Specific guidelines	PP 1/51(3)
<b>Experimental design</b>	Plot design	RCBD (5)
	Plot size	20-30 m <sup>2</sup>
	Number of replications	4 (5)
<b>Crop</b>	Trials per crop	potato (5)
	Varieties per crop	Altus Antonia Dali Goldmarie Kuras
	Sowing period	07/04-14/05
<b>Application</b>	Crop stage majority (BBCH) at application	Pre-emergence (00-08)
	Timing Pest stage majority (BBCH) at application	weed-free
	Number of applications	1
	Intervals between applications	-
	Spray volumes	200-300 L/ha
<b>Assessment</b>	Assessment types	Phytotoxicity: EMEDEL (emergence delay) PHYGEN (general phyto), PHYBLE (% bleaching), PHYTHI (% thinnig), PHYNEC (% necrosis) Yield Quality: MAMDEF (deformation) COMPR (commercial product - grades 1,2,3) STACON (starch content%)
	Assessment dates	First preliminary PHYGEN assessment at application timing. 3 assessments during the season for phytotoxicity After harvest for quality and yeild parameters
<b>Other relevant information</b>	Soil types	loamy sand sandy clay sandy loam
	Field / Greenhouse	Field conditions

**Table 0-14**                      **Details on trial methodology from selectivity trials on potatoes – North-East EPPO zone**

<b>Guidelines</b>	General guidelines	PP 1/135(4), EPPO PP 1/152 (4), PP 1/181(4)
	Specific guidelines	PP 1/51(3)
<b>Guidelines</b>	General guidelines	PP 1/135(4), EPPO PP 1/152 (4), PP 1/181(4)
	Specific guidelines	PP 1/51(3)
<b>Experimental design</b>	Plot design	RCBD (2)
	Plot size	21-30 m <sup>2</sup>
	Number of replications	4 (2)
<b>Crop</b>	Trials per crop	potato (2)
	Varieties per crop	Boryna Lady Claire
	Sowing period	10/04-08/05
<b>Application</b>	Crop stage majority (BBCH) at application	Pre-emergence (00-08)
	Timing Pest stage majority (BBCH) at application	weed-free
	Number of applications	1
	Intervals between applications	-
	Spray volumes	200 L/ha
<b>Assessment</b>	Assessment types	Phytotoxicity: EMEDEL (emergence delay) PHYGEN (general phyto), PHYBLE (% bleaching), PHYDIS (% discoloration) Yield Quality: MAMDEF (deformation) COMPR (commercial product - grades 1,2,3) STACON (starch content%)
	Assessment dates	First preliminary PHYGEN assessment at application timing. 3 assessments during the season for phytotoxicity After harvest for quality and yield parameters
<b>Other relevant information</b>	Soil types	sandy loam
	Field / Greenhouse	Field conditions

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**Table 0-15**                      **Details on trial methodology from selectivity trials on potatoes – South-East EPPO zone**

<b>Guidelines</b>	General guidelines	PP 1/135(4), EPPO PP 1/152 (4), PP 1/181(4)
	Specific guidelines	PP 1/51(3)
<b>Experimental design</b>	Plot design	RCBD (3)
	Plot size	21-30 m <sup>2</sup>
	Number of replications	4 (3)
<b>Crop</b>	Trials per crop	potato (3)
	Varieties per crop	Red Scarlet Desiree
	Sowing period	12-25/04
<b>Application</b>	Crop stage majority (BBCH) at application	Pre-emergence (00-08)
	Timing Pest stage majority (BBCH) at application	weed-free
	Number of applications	1
	Intervals between applications	-
	Spray volumes	200-333 L/ha
<b>Assessment</b>	Assessment types	Phytotoxicity: EMEDEL (emergence delay) PHYGEN (general phyto), PHYBLE (% bleaching), PHYCHL (% chlorosis) PHYDEF (% deformation), PHYNLB (necrosis, leaf blotch) Yield Quality: MAMDEF (deformation) COMPR (commercial product - grades 1,2,3) STACON (starch content%)
	Assessment dates	First preliminary PHYGEN assessment at application timing. 3 assessments during the season for phytotoxicity After harvest for quality and yield parameters
<b>Other relevant information</b>	Soil types	sandy loam, sand, fine silty clay loam
	Field / Greenhouse	Field conditions

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**Table 0-16**                      **Details on trial methodology from selectivity trials on potatoes – Mediterranean EPPO zone**

<b>Guidelines</b>	General guidelines	PP 1/135(4), EPPO PP 1/152 (4), PP 1/181(4)
	Specific guidelines	PP 1/51(3)
<b>Experimental design</b>	Plot design	RCBD (2)
	Plot size	21-42 m <sup>2</sup>
	Number of replications	4 (2)
<b>Crop</b>	Trials per crop	potato (2)
	Varieties per crop	Agria, Monalisa
	Sowing period	07-Jun
<b>Application</b>	Crop stage majority (BBCH) at application	Pre-emergence (00-08)
	Timing	
	Pest stage majority (BBCH) at application	weed-free
	Number of applications	1
	Intervals between applications	-
<b>Assessment</b>	Spray volumes	200 L/ha
	Assessment types	Phytotoxicity: EMEDEL (emergence delay) PHYGEN (general phyto), PHYBLE (% bleaching), PHYTHI (% thinnig) Yield Quality: MAMDEF (deformation) COMPR (commercial product - grades 1,2,3)
	Assessment dates	First preliminary PHYGEN assessment at application timing. 3 assessments during the season for phytotoxicity After harvest for quality and yield parameters
<b>Other relevant information</b>	Soil types	loamy sand, loam
	Field / Greenhouse	Field conditions

### 3.3.1 Phytotoxicity to host crop (KCP 6.4.1)

Phytotoxicity was evaluated in trials presented in this dossier including efficacy and weed free trials. For details on trial methodology and reference standards, reference is made to the trials in the efficacy tests under section 3.2 and the trials mentioned above (crop safety) under section 3.4.

Crop phytotoxicity was visually assessed in all trials in accordance with the EPPO guideline PP 1/135, as a numerical record (%) at various intervals after application. The test formulation GLOB1913H (also identified as GLOB1318H or Prosulfocarb 900 EC) was used in order to demonstrate the crop safety. Formulation comparability was demonstrated in section 3.2.1.

#### Cereals - Pre-emergence application

In total, 64 specific selectivity trials evaluated the adverse effects of cereals with pre-emergence application (20 trials in the Maritime, 20 in the North-East, 2 in the South-east and 22 in the Mediterranean EPPO zones). Trials on cereals were carried out between 2018 and 2021 on a wide range of commercially grown varieties.

In all the selectivity trials GLOB1913H was applied once according to the GAP table (before crop emergence) at the rates of 3.5 - 4.4 L/ha (N) and 7 – 8.8 L/ha (2N), respectively representing the target rates and the double target rates of application. Durum wheat represents an exception as the rate of 2.6 L/ha was the maximum tested, following requested rate and currently authorized amount of prosulfocarb for the reference products (i.e. France).

Commercial standards were as well applied at authorized rate N and 2N as comparison. Details of the reference standards used in trials and application rates are presented in Table 0-4.

In the efficacy trials, GLOB1913H was applied at the same timing up to the maximum dose rate of 4.4 L L/ha (N). For the efficacy trials, results of only the highest dose rate tested (N) as well as the reference product(s) are shown.

#### Maritime EPPO Zone

**Table 0-17 Phytotoxicity of GLOB1913H (Prosulfocarb 900 EC) in soft winter wheat: highest phytotoxicity and phytotoxicity at final assessment – pre-em-Maritime EPPO Zone**

Number of trials with...		Selectivity trials (6) (4 CZ,DE)						Efficacy trials (19) (7 CZ,DE)	
		GLOB1913H				Reference		GLOB1913H	Reference
		N (3.5)	N (4.4)	2N (7)	2N (8.8)	N	2N	N	N
Highest phytotoxicity	0% to 5%	5	5	5	6	5	4	19	19
	>5% to 10%	1	1	1	-	1	2	-	-
	>10% to 15%	-	-	-	-	-	-	-	-
	>15 %	-	-	-	-	-	-	-	-
Phytotoxicity at final assessment	0% to 5%	6	6	6	6	6	6	19	19
	>5% to 10%	-	-	-	-	-	-	-	-
	>10% to 15%	-	-	-	-	-	-	-	-
	>15 %	-	-	-	-	-	-	-	-

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In 2 out of 6 selectivity trials, some transient and light phytotoxic effects were observed, either at the N dose or the 2N dose, specified in one case as thinning. In one of those trials however, lower symptoms were observed at 2N (8.8 L/ha) compared to N. Similar effects were observed for the reference product. During the efficacy trials on soft wheat, no phytotoxic effects were observed at the N dose.

In all cases, the effect observed for GLOB1913H disappeared at the end of the season, which is confirmed by the yield data obtained from selectivity trials (see section 3.4.2).

It can be concluded that the product is safe towards soft wheat when applied according to label recommendations.

**Table 0-18**                      **Phytotoxicity of GLOB1913H (Prosulfocarb 900 EC) in durum winter wheat: highest phytotoxicity and phytotoxicity at final assessment – pre-em-Maritime EPPO Zone**

Number of trials with...		Selectivity trials (3)					
		GLOB1913H				Reference	
		N (2.6)	N (4.4)	2N (5.4)	2N (8.8)	N	2N
Highest phytotoxicity	0% to 5%	3	-	3	-	3	3
	>5% to 10%	-	-	-	-	-	-
	>10% to 15%	-	-	-	-	-	-
	>15 %	-	-	-	-	-	-
Phytotoxicity at final assessment	0% to 5%	3	-	3	-	3	3
	>5% to 10%	-	-	-	-	-	-
	>10% to 15%	-	-	-	-	-	-
	>15 %	-	-	-	-	-	-

Only selectivity trials were conducted on durum wheat in the Maritime EPPO zone with pre-emergence application. No phytotoxic effects were observed, either at the dose of 2.6 L/ha nor at 5.4 L/ha. No effects were observed for the reference product as well.

In addition, trials on other climatic zones (i.e. Mediterranean) have tested higher rates and proven selectivity). Moreover, formulations containing 800 g/L of prosulfocarb applied before emergence of the crop had been used since a long time and known to be safe at this N rate.

It can be concluded that the product is safe towards durum wheat up to 2.6 L/ha and when applied according to label recommendations.

**Table 0-19**                      **Phytotoxicity of GLOB1913H (Prosulfocarb 900 EC) in winter barley: highest phytotoxicity and phytotoxicity at final assessment – pre-em - Maritime EPPO Zone**

Number of trials with...		Selectivity trials (4) (2 CZ,DE)						Efficacy trials (4) (2 CZ,DE)	
		GLOB1913H				Reference		GLOB1913H	Reference
		N (3.5)	N (4.4)	2N (7)	2N (8.8)	N	2N	N	N
Highest phytotoxicity	0% to 5%	1	3	1	3	4	4	4	4
	>5% to 10%	-	-	-	-	-	-	-	-
	>10% to 15%	-	-	-	-	-	-	-	-
	>15 %	-	-	-	-	-	-	-	-
Phytotoxicity at final assessment	0% to 5%	1	3	1	3	4	4	4	4
	>5% to 10%	-	-	-	-	-	-	-	-
	>10% to 15%	-	-	-	-	-	-	-	-
	>15 %	-	-	-	-	-	-	-	-

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In both efficacy and selectivity trials performed with GLOB1913H, no phytotoxic effects were observed, either at the N dose or the 2N dose. No effects were observed for the reference product as well.

It can be concluded that the product is safe towards barley when applied according to label recommendations.

**Table 0-20 Phytotoxicity of GLOB1913H (Prosulfocarb 900 EC) in winter rye: highest phytotoxicity and phytotoxicity at final assessment – pre-em - Maritime EPPO Zone**

Number of trials with...		Selectivity trials (4) (2 CZ,DE)						Efficacy trials (1) (1 DE)	
		GLOB1913H				Reference		GLOB1913H	Reference
		N (3.5)	N (4.4)	2N (7)	2N (8.8)	N	2N	N	N
Highest phytotoxicity	0% to 5%	-	1	-	1	1	1	1	1
	>5% to 10%	-	1	-	-	-	-	-	-
	>10% to 15%	-	-	-	-	1	-	-	-
	>15 %	1	1	1	2	2	3	-	-
Phytotoxicity at final assessment	0% to 5%	-	3	-	1	2	2	1	1
	>5% to 10%	-	-	-	-	-	-	-	-
	>10% to 15%	-	-	-	1	1	-	-	-
	>15 %	1	-	-	1	1	2	-	-

In the selectivity trials, some phytotoxic effects were observed, either at the N dose or the 2N dose, and mostly transient. In only one selectivity trial significant symptoms last up to the end of assessments (KCP 6.4-19) nevertheless yield was not reduced. The same effects were observed for the reference product applied at similar amount of active substance.

Still, in the efficacy trial, GLOB1913H at N did not cause any phytotoxicity.

In the vast majority of cases, the effects observed tend to diminish at the end of the trial, not significantly affecting the yield, which is confirmed by the yield data (see section 3.4.2). In only one trial in France, variety Dankowskie rubin, a reduction in yield was observed but this was not related to the rate applied since the level of reduction was observed at N or 2N rates of both GLOB1913H and reference product. It can be concluded that the product is safe towards rye when applied according to label recommendations.

**Table 0-21 Phytotoxicity of GLOB1913H (Prosulfocarb 900 EC) in winter triticale: highest phytotoxicity and phytotoxicity at final assessment – pre-em - Maritime EPPO Zone**

Number of trials with...		Selectivity trials (3) (1 DE)						Efficacy trials (2) (2 CZ,DE)	
		GLOB1913H				Reference		GLOB1913H	Reference
		N (3.5)	N (4.4)	2N (7)	2N (8.8)	N	2N	N	N
Highest phytotoxicity	0% to 5%	1	2	1	2	3	3	2	2
	>5% to 10%	-	-	-	-	-	-	-	-
	>10% to 15%	-	-	-	-	-	-	-	-
	>15 %	-	-	-	-	-	-	-	-
Phytotoxicity at final assessment	0% to 5%	1	2	1	2	3	3	2	2
	>5% to 10%	-	-	-	-	-	-	-	-
	>10% to 15%	-	-	-	-	-	-	-	-
	>15 %	-	-	-	-	-	-	-	-

On winter triticale, no phytotoxic effects were observed either at the N dose or the 2N dose. Similar absence of effects was observed for the reference products.

It can be concluded that the product is safe towards triticale when applied according to label recommendations.



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**Table 0-22**                      **Phytotoxicity of GLOB1913H (Prosulfocarb 900 EC) in soft winter wheat: highest phytotoxicity and phytotoxicity at final assessment – pre-em - North-East EPPO Zone**

Number of trials with...		Selectivity trials (4)						Efficacy trials (6)	
		GLOB1913H				Reference		GLOB1913H	Reference
		N (3.5)	N (4.4)	2N (7)	2N (8.8)	N	2N	N	N
Highest phytotoxicity	0% to 5%	1	2	2	2	3	3	6	6
	>5% to 10%	1	-	-	-	-	-	-	-
	>10% to 15%	-	-	-	-	1	1	-	-
	>15 %	-	-	-	-	-	-	-	-
Phytotoxicity at final assessment	0% to 5%	2	2	2	2	4	4	6	6
	>5% to 10%	-	-	-	-	-	-	-	-
	>10% to 15%	-	-	-	-	-	-	-	-
	>15 %	-	-	-	-	-	-	-	-

In one out of 4 selectivity trials, light symptoms were observed at 3.5 L, but these are non-relevant since less symptoms were verified at 2N and less than the reference applied at lower amount of ai and all disappeared at the end of trial.

Still, in the efficacy trial, GLOB1913H at N did not cause any phytotoxicity.

In all cases, the effect disappeared at the end of the season, which is confirmed by the yield data obtained from selectivity trials (see section 3.4.2).

Reference is also made to the results of 4 selectivity trials presented above for the Maritime EPPO zone, conducted in Germany and Czech Republic, neighbouring countries and considered as valid to Poland where no negative symptoms were observed.

It can be concluded that the product is safe towards soft wheat when applied according to label recommendations.

**Table 0-23**                      **Phytotoxicity of GLOB1913H (Prosulfocarb 900 EC) in winter barley: highest phytotoxicity and phytotoxicity at final assessment – pre-em - North-East EPPO Zone**

Number of trials with...		Selectivity trials (7)						Efficacy trials (2)	
		GLOB1913H				Reference		GLOB1913H	Reference
		N (3.5)	N (4.4)	2N (7)	2N (8.8)	N	2N	N (3.5)	N
Highest phytotoxicity	0% to 5%	4	1	4	1	5	5	2	2
	>5% to 10%	1	-	1	-	1	1	-	-
	>10% to 15%	-	1	-	-	1	1	-	-
	>15 %	-	-	-	1	-	-	-	-
Phytotoxicity at final assessment	0% to 5%	4	2	4	2	6	6	2	2
	>5% to 10%	1	-	1	-	1	1	-	-
	>10% to 15%	-	-	-	-	-	-	-	-
	>15 %	-	-	-	-	-	-	-	-

In 2 out of 7 selectivity trials, light symptoms were observed in one trial at 3.5 L and up to 16% in another trial at 8.8 L/ha. In all cases, the effect disappeared at the end of the season, which is confirmed by the yield data obtained from selectivity trials (see section 3.4.2). The same effects were observed for the reference product applied at similar or even lower amount of active substance.

Still, in the efficacy trial, GLOB1913H at N did not cause any phytotoxicity.

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Reference is also made to the results of 2 selectivity trials presented above for the Maritime EPPO zone, conducted in Germany and Czech Republic, neighbouring countries and considered as valid to Poland where no negative symptoms were observed.

It can be concluded that the product is safe towards winter barley when applied according to label recommendations.

**Table 0-24**                      **Phytotoxicity of GLOB1913H (Prosulfocarb 900 EC) in winter rye: highest phytotoxicity and phytotoxicity at final assessment – pre-em - North-East EPPO Zone**

Number of trials with...		Selectivity trials (5)						Efficacy trials (2)	
		GLOB1913H				Reference		GLOB1913H	Reference
		N (3.5)	N (4.4)	2N (7)	2N (8.8)	N	2N	N (2.6)	N (3)
Highest phytotoxicity	0% to 5%	1	1	1	1	2	2	2	2
	>5% to 10%	-	1	-	-	2	-	-	-
	>10% to 15%	-	1	-	2	-	2	-	-
	>15 %	1	-	1	-	1	1	-	-
Phytotoxicity at final assessment	0% to 5%	1	2	1	2	5	3	2	2
	>5% to 10%	1	1	1	1	-	2	-	-
	>10% to 15%	-	-	-	-	-	-	-	-
	>15 %	-	-	-	-	-	-	-	-

In 3 out of 5 selectivity trials, symptoms were observed. In all cases, the effect was reduced to less than 10% at the end of the season. Yield data obtained from selectivity trials (see section 3.4.2) show some reduction in 2 trials, KCP 6.4-46 (var. Dankowskie Diament, only at 2N 8.8 L/ha) and KCP 6.4-52 (var. Elvi, either at 3.5 or 7 L/ha). The same effects were observed for the reference product applied at similar or even lower amount of active substance.

Reference is also made to the results of 2 selectivity trials presented above for the Maritime EPPO zone, conducted in Germany and Czech Republic, neighbouring countries and considered as valid to Poland where no statistically significant impact was observed in winter rye yield. Still, in the efficacy trials, GLOB1913H at N did not cause any phytotoxicity.

It can be concluded there is no need to mention on the label a warning other than to avoid overlap of sprays.

**Table 0-25**                      **Phytotoxicity of GLOB1913H (Prosulfocarb 900 EC) in winter triticale: highest phytotoxicity and phytotoxicity at final assessment – pre-em - North-East EPPO Zone**

Number of trials with...		Selectivity trials (4)						Efficacy trials (2)	
		GLOB1913H				Reference		GLOB1913H	Reference
		N (3.5)	N (4.4)	2N (7)	2N (8.8)	N	2N	N (2.6)	N
Highest phytotoxicity	0% to 5%	2	2	2	2	4	4	2	2
	>5% to 10%	-	-	-	-	-	-	-	-
	>10% to 15%	-	-	-	-	-	-	-	-
	>15 %	-	-	-	-	-	-	-	-
Phytotoxicity at final assessment	0% to 5%	2	2	2	2	4	4	2	2
	>5% to 10%	-	-	-	-	-	-	-	-
	>10% to 15%	-	-	-	-	-	-	-	-
	>15 %	-	-	-	-	-	-	-	-

On winter triticale, no phytotoxic effects were observed either at the N dose or the 2N dose in both selectivity and efficacy trials. Similar absence of effects was observed for the reference products.

Reference is also made to the results of 1 selectivity trial presented above for the Maritime EPPO zone, conducted in Germany, neighbouring country and considered as valid to Poland where no negative symptoms were observed.

It can be concluded that the product is safe towards triticales when applied according to label recommendations.

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### South-East EPPO Zone

**Table 0-26**                      **Phytotoxicity of GLOB1913H (Prosulfocarb 900 EC) in soft winter wheat: highest phytotoxicity and phytotoxicity at final assessment – pre-em - South-East EPPO Zone**

Number of trials with...		Selectivity trials (1)						Efficacy trials (2)	
		GLOB1913H				Reference		GLOB1913H	Reference
		N (3.5)	N (4.4)	2N (7)	2N (8.8)	N	2N	N (2.6)	N
Highest phytotoxicity	0% to 5%	-	1	-	1	-	-	2	2
	>5% to 10%	-	-	-	-	-	-	-	-
	>10% to 15%	-	-	-	-	-	-	-	-
	>15 %	-	-	-	-	-	-	-	-
Phytotoxicity at final assessment	0% to 5%	-	1	-	1	-	-	2	2
	>5% to 10%	-	-	-	-	-	-	-	-
	>10% to 15%	-	-	-	-	-	-	-	-
	>15 %	-	-	-	-	-	-	-	-

On soft winter wheat, no phytotoxic effects were observed either at the maximum rate of 4.4 L/ha or the 2N dose in the selectivity trial. Also in efficacy trials no phytotoxic effects were observed, however a lower rate was applied reflecting common practice in the country. Similar absence of effects was observed for the reference products.

It can be concluded that the product is safe towards winter wheat when applied according to label recommendations.

**Table 0-27**                      **Phytotoxicity of GLOB1913H (Prosulfocarb 900 EC) in winter barley: highest phytotoxicity and phytotoxicity at final assessment – pre-em - South-East EPPO Zone**

Number of trials with...		Selectivity trials (1)						Efficacy trials (3)	
		GLOB1913H				Reference		GLOB1913H	Reference
		N (3.5)	N (4.4)	2N (7)	2N (8.8)	N	2N	N (2.6)	N
Highest phytotoxicity	0% to 5%	-	1	-	1	-	-	3	3
	>5% to 10%	-	-	-	-	-	-	-	-
	>10% to 15%	-	-	-	-	-	-	-	-
	>15 %	-	-	-	-	-	-	-	-
Phytotoxicity at final assessment	0% to 5%	-	1	-	1	-	-	3	3
	>5% to 10%	-	-	-	-	-	-	-	-
	>10% to 15%	-	-	-	-	-	-	-	-
	>15 %	-	-	-	-	-	-	-	-

On winter barley, no phytotoxic effects were observed either at the maximum rate of 4.4 L/ha or the 2N dose in the selectivity trial. Also in efficacy trials no phytotoxic effects were observed, however a lower rate was applied reflecting common practice in the country. Similar absence of effects was observed for the reference products.

It can be concluded that the product is safe towards winter barley when applied according to label recommendations.

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### Mediterranean EPPO Zone

**Table 0-28**                    **Phytotoxicity of GLOB1913H (Prosulfocarb 900 EC) in soft winter wheat: highest phytotoxicity and phytotoxicity at final assessment – pre-em – Mediterranean EPPO Zone**

Number of trials with...		Selectivity trials (5)						Efficacy trials (8)	
		GLOB1913H				Reference		GLOB1913H	Reference
		N (2.7)	N (4.4)	2N (5.4)	2N (8.8)	N	2N	N (4.4)	N
Highest phytotoxicity	0% to 5%	2	1	2	1	4	3	7	7
	>5% to 10%	-	2	-	1	-	1	-	-
	>10% to 15%	-	-	-	-	1	1	-	-
	>15 %	-	-	-	1	-	-	1	1
Phytotoxicity at final assessment	0% to 5%	2	2	2	2	4	3	7	7
	>5% to 10%	-	1	-	1	1	2	-	1
	>10% to 15%	-	-	-	-	-	-	-	-
	>15 %	-	-	-	-	-	-	1	-

In 1 out of 5 selectivity trials, light symptoms were observed at 4.4 L and 8.8 L/ha (KCP 6.4-27, variety Solindo) and up to 23.8% in another trial at 8.8 L/ha (reported as stunting, KCP 6.4-28, variety Giorgione). In all cases, the effect disappeared at the end of the season, which is confirmed by the yield data obtained from selectivity trials (see section 3.4.2). The same effects were observed for the reference product applied at similar amount of active substance and slightly lower in the trial where it was applied at lower amount of active substance. Yield results were always comparable.

Still, in the 8 efficacy trials, GLOB1913H at 4.4 L/ha did not cause any phytotoxicity in all but one trial (KCP 6.2-41, variety Minosse). Even in this case the symptoms observed tended to diminish at the end of the trial.

It can be concluded that the product is safe towards soft wheat when applied according to label recommendations.

**Table 0-29**                    **Phytotoxicity of GLOB1913H (Prosulfocarb 900 EC) in durum winter wheat: highest phytotoxicity and phytotoxicity at final assessment – pre-em – Mediterranean EPPO Zone**

Number of trials with...		Selectivity trials (8)						Efficacy trials (2)	
		GLOB1913H				Reference		GLOB1913H	Reference
		N (2.7)	N (4.4)	2N (5.4)	2N (8.8)	N	2N	N (4.4)	N
Highest phytotoxicity	0% to 5%	8	-	6	-	6	6	2	2
	>5% to 10%	-	-	1	-	-	-	-	-
	>10% to 15%	-	-	1	-	-	-	-	-
	>15 %	-	-	-	-	2	2	-	-
Phytotoxicity at final assessment	0% to 5%	8	-	8	-	7	6	2	2
	>5% to 10%	-	-	-	-	-	-	-	-
	>10% to 15%	-	-	-	-	1	-	-	-
	>15 %	-	-	-	-	-	2	-	-

In only 2 out of 8 selectivity trials, transient symptoms were observed for GLOB1913H. In all cases, the effect disappeared at the end of the season. Yield data obtained from selectivity trials (see section 3.4.2) show some reduction in one of those trials, KCP 6.4-40 (var. Brancalone) but still statistically comparable with untreated plots. Still, much stronger phytotoxicity and yield reduction was observed for the reference products (Battle delta or Fosbury at 0.6 L/ha, which are diflufenican + flufenacet mixtures).

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Still, in the 2 efficacy trials, GLOBAL1913H at 4.4 L/ha did not cause any phytotoxicity, nor the reference product based on Prosulfocarb and applied at similar amount of active substance.

It can be concluded that the product is safe towards durum wheat up to 2.6 L/ha and when applied according to label recommendations.

**Table 0-30 Phytotoxicity of GLOBAL1913H (Prosulfocarb 900 EC) in winter barley: highest phytotoxicity and phytotoxicity at final assessment – pre-em - Mediterranean EPPO Zone**

Number of trials with...		Selectivity trials (7)						Efficacy trials (2)	
		GLOBAL1913H				Reference		GLOBAL1913H	Reference
		0.7N (2.7)	N (4.4)	1.4N (5.4)	2N (8.8)	N	2N	N (4.4)	N
Highest phytotoxicity	0% to 5%	1	4	1	4	-	-	2	2
	>5% to 10%	-	-	-	-	-	-	-	-
	>10% to 15%	-	-	-	-	-	-	-	-
	>15 %	-	2	-	2	2	2	-	-
Phytotoxicity at final assessment	0% to 5%	1	4	1	4	-	-	2	2
	>5% to 10%	-	-	-	-	-	-	-	-
	>10% to 15%	-	-	-	-	-	-	-	-
	>15 %	-	2	-	2	2	2	-	-

In only 2 out of 7 selectivity trials, transient symptoms were observed for GLOBAL1913H. Similar results were observed for the reference products based on prosulfocarb. In all cases, the effect diminished but not disappeared at the end of the season, nevertheless, yield results were still statistically comparable to untreated plots (see section 3.4.2).

Still, in the 2 efficacy trials, GLOBAL1913H at 4.4 L/ha did not cause any phytotoxicity, nor the reference product based on prosulfocarb and applied at similar amount of active substance.

It can be concluded that the product is safe towards barley when applied according to label recommendations.

**Table 0-31 Phytotoxicity of GLOBAL1913H (Prosulfocarb 900 EC) in winter triticale: highest phytotoxicity and phytotoxicity at final assessment – pre-em - Mediterranean EPPO Zone**

Number of trials with...		Selectivity trials (2)					
		GLOBAL1913H				Reference	
		N (3.5)	N (4.4)	2N (7)	2N (8.8)	N	2N
Highest phytotoxicity	0% to 5%	-	2	-	2	2	2
	>5% to 10%	-	-	-	-	-	-
	>10% to 15%	-	-	-	-	-	-
	>15 %	-	-	-	-	-	-
Phytotoxicity at final assessment	0% to 5%	-	2	-	2	2	2
	>5% to 10%	-	-	-	-	-	-
	>10% to 15%	-	-	-	-	-	-
	>15 %	-	-	-	-	-	-

Only selectivity trials were conducted on winter triticale in the Mediterranean EPPO zone with pre-emergence application. No phytotoxic effects were observed, either at the dose of 4.4 L/ha nor at 8.8 L/ha. No effects were observed for the reference product as well, applied at similar amount of active substance.

It can be concluded that the product is safe towards winter triticale when applied according to label recommendations.

### **Conclusion**

In conclusion it can be observed that transient phytotoxic effects could be observed on winter cereals as pre-emergence application. These symptoms tend to disappear at the end of the season and, as will be shown further, this leads to no negative effect on the yield of the different winter cereals on the vast majority of varieties tested. Moreover, several formulations containing 800 g/L of prosulfocarb are available on the market and authorized at similar amounts of active substance/ha and its selectivity is known on a wide range of commercially available varieties.

## Cereals - Post-emergence application

In total, 56 specific selectivity trials evaluated the adverse effects of cereals with post-emergence application (17 trials in the Maritime, 11 in the North-East, 2 in the South-east and 26 in the Mediterranean EPPO zones). Trials on cereals were carried out between 2018 and 2021 on a wide range of commercially grown varieties.

In all the selectivity trials GLOB1913H was applied once according to the GAP table (crop BBCH 10-29) at the rates of 3.5 - 4.4 L/ha (N) and 7 – 8.8 L/ha (2N), respectively representing the target rates and the double target rates of application. Durum wheat represents an exception as the rate of 2.6 L/ha was the maximum tested, following requested rate and currently authorized amount of prosulfocarb for the reference products (i.e. France).

Commercial standards were as well applied at authorized rate N and 2N as comparison. Details of the reference standards used in trials and application rates are presented in Table 0-4.

In the efficacy trials, GLOB1913H was applied at the same timing up to the maximum dose rate of 4.4 L L/ha (N). For the efficacy trials, results of only the highest dose rate tested (N) as well as the reference product(s) are shown.

### Maritime EPPO Zone

**Table 0-32**                      **Phytotoxicity of GLOB1913H (Prosulfocarb 900 EC) in soft winter wheat: highest phytotoxicity and phytotoxicity at final assessment – post-em-Maritime EPPO Zone**

Number of trials with...		Selectivity trials (4) (1 CZ)				Efficacy trials (28) (13 CZ,DE, 3 PL)			
		GLOB1913H		Reference		GLOB1913H		Reference	
		N (3.5)	N (4.4)	2N (7)	2N (8.8)	N	2N	N	N
Highest phytotoxicity	0% to 5%	2	2	1	2	4	3	27	27
	>5% to 10%	-	-	1	-	-	-	1	-
	>10% to 15%	-	-	-	-	-	-	-	-
	>15 %	-	-	-	-	-	1	-	1
Phytotoxicity at final assessment	0% to 5%	2	2	2	2	4	4	28	28
	>5% to 10%	-	-	-	-	-	-	-	-
	>10% to 15%	-	-	-	-	-	-	-	-
	>15 %	-	-	-	-	-	-	-	-

In one out of 4 selectivity trials, light symptoms were observed only at 2N (7 L/ha), but these are non-relevant since disappeared at the end of trial and are less than for the reference also at 2N. For this specific trial, the effect observed disappeared at the end of the season, which is confirmed by the yield data obtained from selectivity trials (see section 3.4.2), where all treated plots had significant higher yield.

During the efficacy trials on soft wheat, no phytotoxic effects were observed at the N dose in the vast majority of trials. In all cases, the effect observed disappeared at the end of the season.

It can be concluded that the product is safe towards soft wheat when applied according to label recommendations.

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**Table 0-33**                      **Phytotoxicity of GLOB1913H (Prosulfocarb 900 EC) in durum winter wheat: highest phytotoxicity and phytotoxicity at final assessment – post-em- Maritime EPPO Zone**

Number of trials with...		Selectivity trials (3)					
		GLOB1913H				Reference	
		N (2.6)	N (4.4)	2N (5.4)	2N (8.8)	N	2N
Highest phytotoxicity	0% to 5%	3	-	3	-	-	-
	>5% to 10%	-	-	-	-	1	-
	>10% to 15%	-	-	-	-	-	2
	>15 %	-	-	-	-	1	1
Phytotoxicity at final assessment	0% to 5%	3	-	3	-	2	2
	>5% to 10%	-	-	-	-	1	1
	>10% to 15%	-	-	-	-	-	-
	>15 %	-	-	-	-	-	-

Only selectivity trials were conducted on durum wheat in the Maritime EPPO zone with post-emergence application. No phytotoxic effects were observed, either at the dose of 2.6 L/ha nor at 5.4 L/ha. Some effects were observed for the reference product, although it was applied at higher amount of a.s. (4000 and 8000 g a.s./ha)

It can be concluded that the product is safe towards durum wheat up to 2.6 L/ha and when applied according to label recommendations.

**Table 0-34**                      **Phytotoxicity of GLOB1913H (Prosulfocarb 900 EC) in winter barley: highest phytotoxicity and phytotoxicity at final assessment – post-em - Maritime EPPO Zone**

Number of trials with...		Selectivity trials (3) (1 CZ)						Efficacy trials (7) (4 CZ,DE)	
		GLOB1913H				Reference		GLOB1913H	Reference
		N (3.5)	N (4.4)	2N (7)	2N (8.8)	N	2N	N	N
Highest phytotoxicity	0% to 5%	1	1	-	-	2	1	3	5
	>5% to 10%	-	-	1	-	-	1	2	-
	>10% to 15%	-	-	-	1	-	-	1	2
	>15 %	-	1	-	1	1	1	1	-
Phytotoxicity at final assessment	0% to 5%	1	2	1	2	2	2	7	7
	>5% to 10%	-	-	-	-	1	1	-	-
	>10% to 15%	-	-	-	-	-	-	-	-
	>15 %	-	-	-	-	-	-	-	-

In both efficacy and selectivity trials performed with GLOB1913H, some phytotoxic effects were observed, mainly at early assessments, either at the N dose or the 2N dose. Similar effects were observed for the reference products. Only one selectivity trial in CZ had strong phytotoxicity (KCP 6.4-63, var. Fabian), nevertheless the symptoms disappeared and did not significantly reduced the yield (see section 3.4.2).

In all efficacy trials, the transient effects disappeared at the end of the trial.

It can be concluded that the product is safe towards winter barley when applied according to label recommendations.

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**Table 0-35 Phytotoxicity of GLOB1913H (Prosulfocarb 900 EC) in winter rye: highest phytotoxicity and phytotoxicity at final assessment – post-em - Maritime EPPO Zone**

Number of trials with...		Selectivity trials (3) (1 CZ)						Efficacy trials (1) (1 DE)	
		GLOB1913H				Reference		GLOB1913H	Reference
		N (3.5)	N (4.4)	2N (7)	2N (8.8)	N	2N	N	N
Highest phytotoxicity	0% to 5%	1	1	-	1	3	1	1	1
	>5% to 10%	-	1	-	-	-	2	-	-
	>10% to 15%	-	-	1	1	-	-	-	-
	>15 %	-	-	-	-	-	-	-	-
Phytotoxicity at final assessment	0% to 5%	1	2	1	2	3	3	1	1
	>5% to 10%	-	-	-	-	-	-	-	-
	>10% to 15%	-	-	-	-	-	-	-	-
	>15 %	-	-	-	-	-	-	-	-

In 2 out of 3 selectivity trials, some transient phytotoxic effects were observed either at the N dose or the 2N dose. Similar effect was observed for the reference product in those trials. Still, in the efficacy trial, GLOB1913H at N did not cause any phytotoxicity.

In all cases, the effect observed for GLOB1913H disappeared at the end of the season, which is confirmed by the yield data obtained from selectivity trials (see section 3.4.2).

It can be concluded that the product is safe towards winter rye when applied according to label recommendations.

**Table 0-36 Phytotoxicity of GLOB1913H (Prosulfocarb 900 EC) in winter triticale: highest phytotoxicity and phytotoxicity at final assessment – post-em - Maritime EPPO Zone**

Number of trials with...		Selectivity trials (4) (1 DE, 1 PL)						Efficacy trials (5) (4 DE)	
		GLOB1913H				Reference		GLOB1913H	Reference
		N (3.5)	N (4.4)	2N (7)	2N (8.8)	N	2N	N	N
Highest phytotoxicity	0% to 5%	1	3	1	3	4	3	5	5
	>5% to 10%	-	-	-	-	-	1	-	-
	>10% to 15%	-	-	-	-	-	-	-	-
	>15 %	-	-	-	-	-	-	-	-
Phytotoxicity at final assessment	0% to 5%	1	3	1	3	4	4	5	5
	>5% to 10%	-	-	-	-	-	-	-	-
	>10% to 15%	-	-	-	-	-	-	-	-
	>15 %	-	-	-	-	-	-	-	-

On winter triticale, no phytotoxic effects were observed either at the N dose or the 2N dose. Similar absence of effects was observed for the reference products except in one trial where transient symptoms were observed at a higher rate (8000 g a.s./ha).

In all cases, the effect observed for GLOB1913H disappeared at the end of the season, which is confirmed by the yield data obtained from selectivity trials (see section 3.4.2).

It can be concluded that the product is safe towards triticale when applied according to label recommendations.

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### North-East EPPO Zone

**Table 0-37 Phytotoxicity of GLOB1913H (Prosulfocarb 900 EC) in soft winter wheat: highest phytotoxicity and phytotoxicity at final assessment – post-em - North-East EPPO Zone**

Number of trials with...		Selectivity trials (3)						Efficacy trials (5)	
		GLOB1913H				Reference		GLOB1913H	Reference
		N (3.5)	N (4.4)	2N (7)	2N (8.8)	N	2N	N	N
Highest phytotoxicity	0% to 5%	1	1	1	1	2	2	5	5
	>5% to 10%	-	-	-	-	-	-	-	-
	>10% to 15%	-	-	-	-	-	-	-	-
	>15 %	1	-	1	-	1	1	-	-
Phytotoxicity at final assessment	0% to 5%	1	1	1	1	2	3	5	5
	>5% to 10%	1	-	-	-	1	-	-	-
	>10% to 15%	-	-	1	-	-	-	-	-
	>15 %	-	-	-	-	-	-	-	-

In one out of 3 selectivity trials, symptoms were observed at 3.5 L. Similar symptoms were observed for the reference product applied at even lower amount of a.s.

Still, in all the efficacy trials, GLOB1913H at N did not cause any phytotoxicity.

In all cases, the effects observed tend to diminish at the end of the trial, not significantly affecting the yield, which is confirmed by the yield data (see section 3.4.2).

Reference is also made to the results of 1 selectivity trial presented above for the Maritime EPPO zone, conducted in Czech Republic, neighbouring country and considered as valid to Poland where no negative symptoms were observed.

It can be concluded that the product is safe towards soft wheat when applied according to label recommendations.

**Table 0-38 Phytotoxicity of GLOB1913H (Prosulfocarb 900 EC) in winter barley: highest phytotoxicity and phytotoxicity at final assessment – post-em - North-East EPPO Zone**

Number of trials with...		Selectivity trials (3)						Efficacy trials (3)	
		GLOB1913H				Reference		GLOB1913H	Reference
		N (3.5)	N (4.4)	2N (7)	2N (8.8)	N	2N	N	N
Highest phytotoxicity	0% to 5%	2	1	2	1	3	3	3	3
	>5% to 10%	-	-	-	-	-	-	-	-
	>10% to 15%	-	-	-	-	-	-	-	-
	>15 %	-	-	-	-	-	-	-	-
Phytotoxicity at final assessment	0% to 5%	2	1	2	1	3	3	3	3
	>5% to 10%	-	-	-	-	-	-	-	-
	>10% to 15%	-	-	-	-	-	-	-	-
	>15 %	-	-	-	-	-	-	-	-

On winter barley, no phytotoxic effects were observed either at the N dose or the 2N dose in both selectivity and efficacy trials. Similar absence of effects was observed for the reference products.

Reference is also made to the results of 1 selectivity trial presented above for the Maritime EPPO zone, conducted in Czech Republic, neighbouring country and considered as valid to Poland where no negative symptoms were observed.

It can be concluded that the product is safe towards winter barley when applied according to label

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recommendations.

**Table 0-39**                      **Phytotoxicity of GLOB1913H (Prosulfocarb 900 EC) in winter rye: highest phytotoxicity and phytotoxicity at final assessment – post-em - North-East EPPO Zone**

Number of trials with...		Selectivity trials (3)						Efficacy trials (2)	
		GLOB1913H				Reference		GLOB1913H	Reference
		N (3.5)	N (4.4)	2N (7)	2N (8.8)	N	2N	N	N
Highest phytotoxicity	0% to 5%	1	1	1	1	2	2	2	2
	>5% to 10%	-	-	-	-	1	-	-	-
	>10% to 15%	-	-	-	-	-	1	-	-
	>15 %	1	-	1	-	-	-	-	-
Phytotoxicity at final assessment	0% to 5%	1	1	1	1	3	3	2	2
	>5% to 10%	1	-	1	-	-	-	-	-
	>10% to 15%	-	-	-	-	-	-	-	-
	>15 %	-	-	-	-	-	-	-	-

In one out of 3 selectivity trials, symptoms were observed at 3.5 L. Slightly lower symptoms were observed for the reference product. The effects observed diminished at the end of the season. In this particular trial (KCP 6.4-107 carried out in Estonia on variety Elvi), yield reduction was observed equally at N and 2N. A smaller reduction was observed for the reference product but this was applied at a lower amount of a.s. Detailed results from yield data obtained from selectivity trials are presented in section 3.4.2. Still, in all the efficacy trials, GLOB1913H at N did not cause any phytotoxicity.

Reference is also made to the results of 1 selectivity trial presented above for the Maritime EPPO zone, conducted in Czech Republic, neighbouring country and considered as valid to Poland where no negative symptoms on yield were observed.

It can be concluded that the product is safe towards winter rye when applied according to label recommendations

**Table 0-40**                      **Phytotoxicity of GLOB1913H (Prosulfocarb 900 EC) in winter triticale: highest phytotoxicity and phytotoxicity at final assessment – post-em - North-East EPPO Zone**

Number of trials with...		Selectivity trials (2)						Efficacy trials (4)	
		GLOB1913H				Reference		GLOB1913H	Reference
		N (3.5)	N (4.4)	2N (7)	2N (8.8)	N	2N	N	N
Highest phytotoxicity	0% to 5%	1	1	1	-	2	2	4	4
	>5% to 10%	-	-	-	-	-	-	-	-
	>10% to 15%	-	-	-	1	-	-	-	-
	>15 %	-	-	-	-	-	-	-	-
Phytotoxicity at final assessment	0% to 5%	1	1	1	1	2	2	4	4
	>5% to 10%	-	-	-	-	-	-	-	-
	>10% to 15%	-	-	-	-	-	-	-	-
	>15 %	-	-	-	-	-	-	-	-

In one out of 2 selectivity trials, symptoms were observed only at 2N (8.8 L/ha). Slightly lower symptoms were observed for the reference product but this was applied at a lower amount of a.s. The effect observed disappeared at the end of the season, which is confirmed by the yield data obtained from selectivity trials (see section 3.4.2). For this trial (KCP 6.4-106 conducted in Latvia on variety Sekret) where transient symptoms were observed for GLOB1913H at 8.8 L/ha, yield results were statistically comparable. Still, in all the efficacy trials, GLOB1913H at N did not cause any phytotoxicity.

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Reference is also made to the results of 2 selectivity trials presented above for the Maritime EPPO zone, conducted in Germany (neighbouring country) and the Maritime part of Poland, and considered as valid to Poland where no negative symptoms were observed.

It can be concluded that the product is safe towards winter triticale when applied according to label recommendations

### South-East EPPO Zone

**Table 0-41 Phytotoxicity of GLOB1913H (Prosulfocarb 900 EC) in soft winter wheat: highest phytotoxicity and phytotoxicity at final assessment – post-em - South-East EPPO Zone**

Number of trials with...		Selectivity trials (1)						Efficacy trials (2)	
		GLOB1913H				Reference		GLOB1913H	Reference
		N (3.5)	N (4.4)	2N (7)	2N (8.8)	N	2N	N (2.6)	N
Highest phytotoxicity	0% to 5%	-	1	-	1	-	-	2	2
	>5% to 10%	-	-	-	-	-	-	-	-
	>10% to 15%	-	-	-	-	-	-	-	-
	>15 %	-	-	-	-	-	-	-	-
Phytotoxicity at final assessment	0% to 5%	-	1	-	1	-	-	2	2
	>5% to 10%	-	-	-	-	-	-	-	-
	>10% to 15%	-	-	-	-	-	-	-	-
	>15 %	-	-	-	-	-	-	-	-

On soft winter wheat, no phytotoxic effects were observed either at the maximum rate of 4.4 L/ha or the 2N dose in the selectivity trial. Also in efficacy trials no phytotoxic effects were observed, however a lower rate was applied reflecting common practice in the country. Similar absence of effects was observed for the reference products.

It can be concluded that the product is safe towards winter wheat when applied in post-emergence according to label recommendations.

**Table 0-42 Phytotoxicity of GLOB1913H (Prosulfocarb 900 EC) in winter barley: highest phytotoxicity and phytotoxicity at final assessment – post-em - South-East EPPO Zone**

Number of trials with...		Selectivity trials (1)						Efficacy trials (3)	
		GLOB1913H				Reference		GLOB1913H	Reference
		N (3.5)	N (4.4)	2N (7)	2N (8.8)	N	2N	N (2.6)	N
Highest phytotoxicity	0% to 5%	-	1	-	1	-	-	3	3
	>5% to 10%	-	-	-	-	-	-	-	-
	>10% to 15%	-	-	-	-	-	-	-	-
	>15 %	-	-	-	-	-	-	-	-
Phytotoxicity at final assessment	0% to 5%	-	1	-	1	-	-	3	3
	>5% to 10%	-	-	-	-	-	-	-	-
	>10% to 15%	-	-	-	-	-	-	-	-
	>15 %	-	-	-	-	-	-	-	-

On winter barley, no phytotoxic effects were observed either at the maximum rate of 4.4 L/ha or the 2N dose in the selectivity trial. Also in efficacy trials no phytotoxic effects were observed, however a lower rate was applied reflecting common practice in the country. Similar absence of effects was observed for the reference products.

It can be concluded that the product is safe towards winter barley when applied in post-emergence according to label recommendations.

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### Mediterranean EPPO Zone

**Table 0-43**      **Phytotoxicity of GLOB1913H (Prosulfocarb 900 EC) in soft winter wheat: highest phytotoxicity and phytotoxicity at final assessment – post-em – Mediterranean EPPO Zone**

Number of trials with...		Selectivity trials (11)						Efficacy trials (16)	
		GLOB1913H				Reference		GLOB1913H	Reference
		N (2.7)	N (4.4)	2N (5.4)	2N (8.8)	N	2N	N	N
Highest phytotoxicity	0% to 5%	2	7	2	5	9	9	15	16
	>5% to 10%	-	-	-	3	2	-	1	-
	>10% to 15%	-	1	-	-	-	2	-	-
	>15 %	-	1	-	1	-	-	-	-
Phytotoxicity at final assessment	0% to 5%	2	9	2	9	11	10	16	16
	>5% to 10%	-	-	-	-	-	1	-	-
	>10% to 15%	-	-	-	-	-	-	-	-
	>15 %	-	-	-	-	-	-	-	-

In 3 out of 11 selectivity trials, some transient and light phytotoxic effects were observed, either at 4.4 or the double rate 8.8 L/ha. Similar effects were observed for the reference product. In one additional trial, higher symptoms were observed (KCP 6.4-79, variety Sirtaki). The small reduction on yield at 2N was not statistically significant. In this case the reference product presented lower phytotoxicity but it was based on different active substances (Naceto, diflufenican + flufenacet).

In all cases, the effect observed for GLOB1913H disappeared at the end of the season, which is confirmed by the yield data obtained from selectivity trials (see section 3.4.2).

During the efficacy trials on soft wheat, no phytotoxic effects were observed at the N dose except in one trial at the maximum requested rate, but these were light symptoms and disappeared after 14 days of the application.

It can be concluded that the product is safe towards soft wheat when applied according to label recommendations.

**Table 0-44**      **Phytotoxicity of GLOB1913H (Prosulfocarb 900 EC) in durum winter wheat: highest phytotoxicity and phytotoxicity at final assessment – post-em – Mediterranean EPPO Zone**

Number of trials with...		Selectivity trials (7)						Efficacy trials (1)	
		GLOB1913H				Reference		GLOB1913H	Reference
		N (2.7)	N (4.4)	2N (5.4)	2N (8.8)	N	2N	N (4.4)	N
Highest phytotoxicity	0% to 5%	6	-	6	-	6	6	1	1
	>5% to 10%	1	-	1	-	1	-	-	-
	>10% to 15%	-	-	-	-	-	-	-	-
	>15 %	-	-	-	-	-	1	-	-
Phytotoxicity at final assessment	0% to 5%	7	-	7	-	6	6	1	1
	>5% to 10%	-	-	-	-	1	-	-	-
	>10% to 15%	-	-	-	-	-	-	-	-
	>15 %	-	-	-	-	-	1	-	-

In only 1 out of 7 selectivity trials, light and transient symptoms (bleaching) were observed for GLOB1913H. The effect disappeared at the end of the season. Yield data (see section 3.4.2) of this trial, KCP 6.4-100 (var. Anvergur) confirms the absence of negative impact on yield. Still, stronger phytotoxicity was observed for the reference product (Fosbury at 0.6 L/ha, which is a diflufenican + flufenacet mixture).

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Still, in the efficacy trial, GLOB1913H at 4.4 L/ha did not cause any phytotoxicity in the same variety (Anvergur), nor the reference product based on Prosulfocarb and applied however at a lower amount of active substance.

It can be concluded that the product is safe towards durum wheat up to 2.6 L/ha and when applied according to label recommendations.

**Table 0-45 Phytotoxicity of GLOB1913H (Prosulfocarb 900 EC) in winter barley: highest phytotoxicity and phytotoxicity at final assessment – post-em - Mediterranean EPPO Zone**

Number of trials with...		Selectivity trials (6)						Efficacy trials (7)	
		GLOB1913H				Reference		GLOB1913H	Reference
		0.7N (2.7)	N (4.4)	1.4N (5.4)	2N (8.8)	N	2N	N (4.4)	N
Highest phytotoxicity	0% to 5%	1	5	1	4	5	4	6	7
	>5% to 10%	-	-	-	-	-	-	1	-
	>10% to 15%	-	-	-	1	1	1	-	-
	>15 %	-	-	-	-	-	1	-	-
Phytotoxicity at final assessment	0% to 5%	1	5	1	4	6	4	7	7
	>5% to 10%	-	-	-	1	-	2	-	-
	>10% to 15%	-	-	-	-	-	-	-	-
	>15 %	-	-	-	-	-	-	-	-

In only 1 out of 6 selectivity trials, moderate symptom of phytotoxicity were observe and light symptoms remained visible at the end of the assessments, also for the reference product based on Prosulfocarb. Yield data (see section 3.4.2) of this trial, KCP 6.4-88 (variety Memento) show a reduction on yield with no statistical differences with the untreated plots. It must be noted a high variability within replicates, with low yield values register also for other tested products in the trial for which no phytotoxicity was ever observed, including the N rates of both GLOB1913H (Prosulfocarb 900) and the reference at similar amount of active substance. This must be taken into account when analyzing the final results.

1 selectivity trial tested lower rates, however even at the increased rate of 5.4 L/ha no symptoms were observed, on the contrary, the reference product (Battle Delta at 0.6 L/ha, which is a diflufenican + flufenacet mixture) presented significant phytotoxicity.

During the efficacy trials on winter barley, no phytotoxic effects were observed at the N dose except in one trial at the maximum requested rate, but these were light symptoms and disappeared at the end of the trial.

It can be concluded that the product is safe towards winter barley when applied according to label recommendations.

**Table 0-46 Phytotoxicity of GLOB1913H (Prosulfocarb 900 EC) in winter triticale: highest phytotoxicity and phytotoxicity at final assessment – post-em - Mediterranean EPPO Zone**

Number of trials with...		Selectivity trials (2)						Efficacy trials (1)	
		GLOB1913H				Reference		GLOB1913H	Reference
		N (3.5)	N (4.4)	2N (7)	2N (8.8)	N	2N	N	N
Highest phytotoxicity	0% to 5%	-	2	-	1	1	1	1	1
	>5% to 10%	-	-	-	-	-	-	-	-
	>10% to 15%	-	-	-	-	1	-	-	-
	>15 %	-	-	-	1	-	1	-	-
Phytotoxicity at final assessment	0% to 5%	-	2	-	2	2	2	1	1
	>5% to 10%	-	-	-	-	-	-	-	-
	>10% to 15%	-	-	-	-	-	-	-	-
	>15 %	-	-	-	-	-	-	-	-

In 1 out of 2 selectivity trials, transient symptoms were observed for GLOB1913H. Similar results were observed for the reference product based on prosulfocarb. The effect disappeared at the end of the season, with yield results statistically comparable to untreated plots (see section 3.4.2).

Still, in the efficacy trial, GLOB1913H at 4.4 L/ha did not cause any phytotoxicity, nor the reference product based on prosulfocarb and applied at similar amount of active substance.

It can be concluded that the product is safe towards winter triticales when applied according to label recommendations.

### **Conclusion**

In conclusion it can be observed that transient phytotoxic effects could be observed on winter cereals as post-emergence application. These symptoms tend to disappear at the end of the season and, as will be shown further, this leads to no negative effect on the yield of the different winter cereals on the vast majority of varieties tested. Moreover, several formulations containing 800 g/L of prosulfocarb are available on the market and authorized at similar amounts of active substance/ha and its selectivity is known on a wide range of commercially available varieties.

## Potatoes

12 selectivity trials on potatoes were carried out between 2020 and 2021 in the Czech Republic, Germany, the Netherlands (5 trials belonging to the Maritime EPPO zone), in Poland (2 trials belonging to the North-East EPPO Zone), in Hungary (3 trials belonging to the South-East EPPO Zone), as well as in Italy (2 trials belonging to the Mediterranean EPPO Zone). The trials were carried out on a wide range of commercially grown varieties.

In all the selectivity trials GLOB1913H was applied once according to the GAP table (post-emergence, BBCH 0-09) at the rate of 4.4 L/ha (N) and 8.8 L/ha (2N), respectively representing the maximum target rate and the double target rate of application.

Commercial standards, were as well applied at N and 2N as comparison. Details of the reference standards used in trials and application rates are presented in Table 0-4. Moreover, the standards are all products based on 800 g/L of prosulfocarb, applied at virtually the same amount of active substance per hectare.

In the efficacy trials, GLOB1913H was applied at the same timing up to the maximum dose rate of 4.4 L/ha (N). For the efficacy trials, results of only the highest dose rate tested (N) as well as the reference product(s) are shown.

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### Maritime EPPO Zone

**Table 0-47 Phytotoxicity of GLOB1913H (Prosulfocarb 900 EC) in potatoes: highest phytotoxicity and phytotoxicity at final assessment - Maritime EPPO Zone**

Number of trials with...		Selectivity trials (5)				Efficacy trials (12)	
		GLOB1913H		Reference*		GLOB1913H	Reference
		N	2N	N	2N	N	N
Maximum of phytotoxicity recorded during the trials	0% to 5%	5	5	5	5	12	12
	>5% to 10%	-	-	-	-	-	-
	>10% to 15%	-	-	-	-	-	-
	>15 %	-	-	-	-	-	-
Level of symptoms at the last assessments	0% to 5%	5	5	5	5	12	12
	>5% to 10%	-	-	-	-	-	-
	>10% to 15%	-	-	-	-	-	-
	>15 %	-	-	-	-	-	-

Reference: Boxer/Roxy/Fidox at N: 5 L/ha , 2N 10 L/ha. Only one trial in NL applied Fidox at 4 and 8 L/ha.

No phytotoxicity symptom caused by GLOB1913H at the maximum proposed dose rate of 4.4 L/ha neither at the double rate was recorded in all trials.

### North-East EPPO Zone

**Table 0-48 Phytotoxicity of GLOB1913H (Prosulfocarb 900 EC) in potatoes: highest phytotoxicity and phytotoxicity at final assessment - Maritime EPPO Zone**

Number of trials with...		Selectivity trials (2)				Efficacy trials (8)	
		GLOB1913H		Reference*		GLOB1913H	Reference
		N	2N	N	2N	N	N
Maximum of phytotoxicity recorded during the trials	0% to 5%	2	2	2	2	8	8
	>5% to 10%	-	-	-	-	-	-
	>10% to 15%	-	-	-	-	-	-
	>15 %	-	-	-	-	-	-
Level of symptoms at the last assessments	0% to 5%	2	2	2	2	8	8
	>5% to 10%	-	-	-	-	-	-
	>10% to 15%	-	-	-	-	-	-
	>15 %	-	-	-	-	-	-

Reference: Boxer at N: 5 L/ha , 2N 10 L/ha.

No phytotoxicity symptom caused by GLOB1913H at the maximum proposed dose rate of 4.4 L/ha neither at the double rate was recorded in all trials.

### South-East EPPO Zone

**Table 0-49 Phytotoxicity of GLOB1913H (Prosulfocarb 900 EC) in potatoes: highest phytotoxicity and phytotoxicity at final assessment - Maritime EPPO Zone**

Number of trials with...		Selectivity trials (3)				Efficacy trials (3)	
		GLOB1913H		Reference*		GLOB1913H	Reference
		N	2N	N	2N	N	N
Maximum of phytotoxicity recorded during the trials (PHYDEF**)	0% to 5%	3	2	3	2	3	3
	>5% to 10%	-	1	-	1	-	-
	>10% to 15%	-	-	-	-	-	-
	>15 %	-	-	-	-	-	-
Level of symptoms at the last assessments (PHYGEN)	0% to 5%	3	3	3	3	3	3
	>5% to 10%	-	-	-	-	-	-
	>10% to 15%	-	-	-	-	-	-
	>15 %	-	-	-	-	-	-

\*Reference: Fidox at N: 5 L/ha , 2N 10 L/ha.

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\*\*% deformation.

No phytotoxicity symptom caused by GLOB1913H at the maximum proposed dose rate of 4.4 L/ha neither at the double rate was recorded in the vast majority of trials. In only one specific selectivity trial, light symptoms of leaf deformation were observed, but at the last assessment timing, only phytotoxicity general was assessed and it was absent. This is confirmed by the yield data obtained from the trial, where results were comparable to the reference standard and no statistical differences were observed (see section 3.4.2).

### Mediterranean EPPO Zone

**Table 0-50 Phytotoxicity of GLOB1913H (Prosulfocarb 900 EC) in potatoes: highest phytotoxicity and phytotoxicity at final assessment - Maritime EPPO Zone**

Number of trials with...		Selectivity trials (2)				Efficacy trials (2)	
		GLOB1913H		Reference*		GLOB1913H	Reference
		N	2N	N	2N	N	N
Maximum of phytotoxicity recorded during the trials	0% to 5%	2	2	2	2	2	2
	>5% to 10%	-	-	-	-	-	-
	>10% to 15%	-	-	-	-	-	-
	>15 %	-	-	-	-	-	-
Level of symptoms at the last assessments	0% to 5%	2	2	2	2	2	2
	>5% to 10%	-	-	-	-	-	-
	>10% to 15%	-	-	-	-	-	-
	>15 %	-	-	-	-	-	-

Reference: Roxy at N: 5 L/ha , 2N 10 L/ha.

No phytotoxicity symptom caused by GLOB1913H at the maximum proposed dose rate of 4.4 L/ha neither at the double rate was recorded in all trials.

### Conclusion

It can be concluded that GLOB1913H at the maximum proposed dose rate of 4.4 L/ha has no phytotoxic effects on potatoes.

Comments of zRMS:	<p><b>Cereals use</b></p> <p><b>Maritime zone</b></p> <p>Phytotoxicity assessment data were presented from a total of 20 pre-emergence in TRZAW (6), TRZAWD (3), HORVW (4), TTLWI (4), SECCW (4) &amp; 17 post-emergence trials in TRZAW (4), TRZAWD (3), HORVW (3), TTLWI (4), SECCW (3). No unacceptable injury was observed at either 3.5 - 4.4 L/ha (N) or 7 – 8.8 L/ha (2N) in the Maritime zone. Although some symptoms were observed in TRZAW, HORVW, TTLWI and SECCW compared to the untreated control, the highest level of damage observed at last up to the end of assessments at N exceeded 15% only in 1 pre-emergence trial (KCP 6.4-19, SECCW var. Herakles). In all other cases, the effect observed for GLOB1913H disappeared by the end of the season, which is confirmed by the yield data from the selectivity trials.</p> <p><b>North east zone</b></p> <p>Phytotoxicity assessment data were presented from a total of 20 pre-emergence in TRZAW (4), HORVW (7), TTLWI (4), SECCW (5) &amp; 11 post-emergence trials in TRZAW (3), HORVW (3), TTLWI (2), SECCW (3). No unacceptable phytotoxicity or crop vigour was observed at either 3.5 - 4.4 L/ha (N) or 7 – 8.8 L/ha (2N) in the North-East zone. Although some symptoms were observed in TRZAW, HORVW, TTLWI and SECCW compared to the untreated control, the</p>
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	<p>highest level of damage observed at last up to the end of assessments at 2N exceeded 15% only in 1 post-emergence trial on wheat. The damage caused by the reference product was also generally transient and a comparable amount of damage (to GLOB1913H) remained at the last assessments.</p> <p><b>South east zone</b></p> <p>Phytotoxicity assessment data were presented from a total of 2 pre-emergence in TRZAW (1) , HORVW (1), &amp; 2 post-emergence trials in TRZAW (1), HORVW (1), No phytotoxicity symptoms was observed at either 3.5 - 4.4 L/ha (N) or 7 – 8.8 L/ha (2N) in the South-East zone. Based on the limited data provided, it is considered that the proposed use of GLOB1913H is unlikely to cause any unacceptable levels of phytotoxicity.</p> <p>Based on many years of experience with the active substance, extrapolation of phytotoxicity data from other climatic zones can be considered. Concerned cMS should decide at the national level whether to accept the possibility of data extrapolation.</p> <p><b>POTATOES</b></p> <p>10 selectivity trials on potatoes were carried out between 2020 and 2021 in the Maritime EPPO zone (5), in the North-East EPPO Zone (2), and South-East EPPO Zone (3). In all the selectivity trials GLOB1913H was applied once post-emergence, BBCH 0-09 at the rate of 4.4 L/ha (N) and 8.8 L/ha (2N). The phytotoxicity data indicate that the proposed uses are unlikely to cause significant injury to the crops. No phytotoxicity was observed in any of the efficacy and phytotoxicity trials, in potatoes in the Maritime and North East EPPO zone. One case of light symptoms of leaf deformation was observed in South East EPPO zone tended to be minor and transient.</p>
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### 3.3.2 Effect on the yield of treated plants or plant product (KCP 6.4.2)

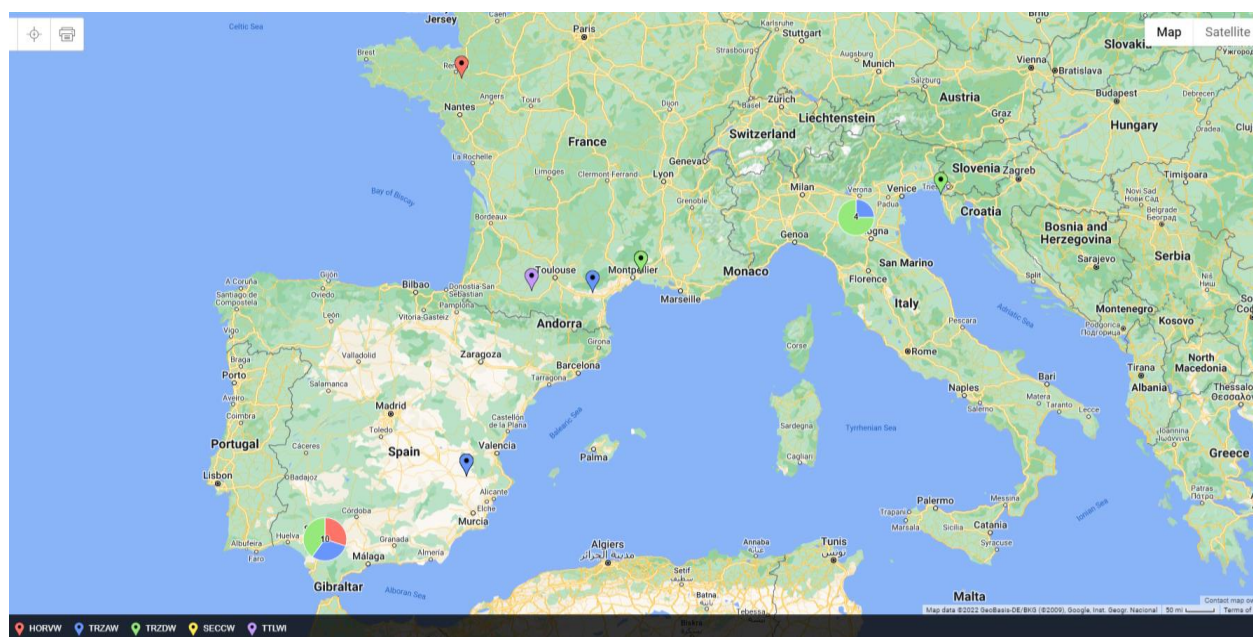
The effect on yield was determined in all the crop safety trials presented in section 3.4 in accordance with the EPPO standard PP 1/135 (4) requirements. Herbicides should be tested for phytotoxicity at both the single (N) and double (2N) dose in the absence of weeds and yield has to be determined.

Yield was evaluated in specific selectivity trials (weed free) carried out on cereals with pre-emergence application (20 trials in the Maritime, 20 in the North-East, 2 in the South-east and 22 in the Mediterranean EPPO zones), as well as on cereals with post-emergence application (17 trials in the Maritime, 11 in the North-East, 2 in the South-east and 26 in the Mediterranean EPPO zones), and on 12 selectivity trials carried out on potatoes (5 trials in the Maritime, 2 in the North-East, 3 in the South-east and 2 in the Mediterranean EPPO zones). Trials on cereals were carried out between 2018 and 2021. Those on potatoes between 2020 and 2021.

Results from trials conducted in Poland were combined with the results of the German and Czech trials since these are neighbouring countries and considered as valid to Poland. The combined results are thus shown below under the North-East EPPO zone section. The trials highlighted in yellow are those conducted in the North-East EPPO Zone (Poland), while blue ones are those conducted in DE and CZ. Trials highlighted in dark blue were conducted in the maritime part of Poland. Trials highlighted in green were conducted in other Maritime zone countries.

In some cereal trials, harvested yield in untreated plots could be considered low. These trials were equally spread among pre and post-emergence trials, as well as among cereal species. This effect is considered to be mainly linked to the local conditions, with most of them concentrated in dry regions as south Spain (as presented in the figure below) and thus considered within the normal range. The dry condition was often referred in the final reports.

**Figure 0-1: Distribution of trials with low yield in untreated plots.**



### **Cereals - Pre-emergence application**

In all the selectivity trials GLOB1913H was applied once according to the GAP table (before crop emergence) at the rates of 3.5 - 4.4 L/ha (N) and 7 – 8.8 L/ha (2N), respectively representing the target rates and the double target rates of application. Durum wheat represents an exception as the rate of 2.6 L/ha was the maximum tested, following requested rate and currently authorized amount of prosulfocarb for the reference products (i.e. France).

Commercial standards, were as well applied at authorized rate N and 2N as comparison. Details of the reference standards used in trials and application rates are presented in Table 0-4.

Plots were harvested individually to give results in kg per plot, and then converted to metric tons per ha. The percentage relative to the control is shown in the tables below and the absolute values assessed are reported for the untreated check.

Furthermore, a comparison of the phytotoxicity encountered in the weed free trials and the yield from those trials where a significant phytotoxicity was observed is presented below. Statistical analysis was made as letter test based on Student-Newman-Keuls ( $P = 0.05$ ). Letters accompanying yield absolute values correspond to the post-hoc test result for the UTC value set at 100%. Where no letter is presented no difference was registered among treatments.

Details on trial methodology for selectivity trials on cereals with pre-emergence application are summarized in Table 0-5, Table 0-6, Table 0-7, Table 0-8, split for each EPPO climatic zone.

### **Maritime EPPO Zone**

In the tables below, the phytotoxic effects observed in weed free trials are compared to the effects on the yield of those trials (only for trials where a significant phytotoxicity was observed). Slight differences observed could be attributed to natural variation and were not statistically significant in the vast majority of cases. The relationship between phytotoxicity and yield is discussed above in the phytotoxicity section 3.4.1. Detailed yield data are summarized from Table 0-53 on.

In the Maritime EPPO zone, a total of 20 trials were carried out on winter cereals in at least 2 seasons for each crop, between 2018 and 2021.

In general no statistically significant differences on yield were observed between plots treated with GLOB1913H (Prosulfocarb 900 EC) and untreated plots. The data were also in line with the reference products containing 800 g/L of prosulfocarb, demonstrating that the pre-emergence use of GLOB1913H at the requested rates does not have a negative impact on the yield of winter cereals in the absence of weeds. In only 1 out of 4 trials in rye in France (KCP 6.4-07), variety Dankowskie rubin, a statistically significant reduction in yield was observed but this cannot be attributed only to the product as the level of reduction was similar at N or 2N rates of both GLOB1913H and reference product, regardless of much lower phytotoxicity levels at N.

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**Table 0-51: Relationship between phytotoxicity and yield on winter soft wheat – pre-em - Maritime EPPO zone**

Test report	Variety	Maximum phyto. at 1N rate (%) (DAA)		Maximum phyto. at 2N (or other) rate (%) (DAA)		Yield in the untreated control  Absolute figures (ton/ha)	Yield at 1N as % of untreated				Yield at 2N as % of untreated	
		GLOB1913H	Standard*	GLOB1913H	Standard*		GLOB1913H	(rate)	Standard	(rate)	GLOB1913H	Standard
Soft winter wheat							GLOB1913H	(rate)	Standard	(rate)	GLOB1913H	Standard
KCP 6.4-02	Graindor	6.3 (136)	3.8 (168)	1.3 (136)	3.8 (168)	8.32	96.36	4.4 L/ha	97.4	5 L/ha	98.9	96.8
KCP 6.4-16	Skyscraper	7.5 (15)	7.5 (15)	8.5 (15)	8 (15)	8.53	102.4	3.5 L/ha	102.9	5 L/ha	107.1	100.1

**Table 0-52: Relationship between phytotoxicity and yield on winter rye –pre-em - Maritime EPPO zone**

Test report	Variety	Maximum phyto. at 1N rate (%) (DAA)		Maximum phyto. at 2N (or other) rate (%) (DAA)		Yield in the untreated control  Absolute figures (ton/ha)	Yield at 1N as % of untreated				Yield at 2N as % of untreated	
		GLOB1913H	Standard*	GLOB1913H	Standard*		GLOB1913H	(rate)	Standard	(rate)	GLOB1913H	Standard
Winter rye												
KCP 6.4-07	Dankowskie rubin	10 (83)	12.5 (83)	40 (83)	37.5(83)	7.54a	87.6b	4.4 L/ha	87.7b	5L/ha	85.5bc	84.5bcd
KCP 6.4-19	Herakles	40(205)	45 (205)	45(205)	47.5(205)	6.23	99.9	3.5 L/ha	99.5	5L/ha	101.2	99.5
KCP 6.4-05	Inspector	35 (29)	30(29)	38(29)	35 (29)	5.46bc	98.2bc	4.4 L/ha	104.6bc	4L/ha	93.4c	107b
KCP 6.4-06	HelTop	0	0	0	0	7.57	98.0	4.4 L/ha	101.8	5L/ha	101.6	101.1

### Detailed yield data - Maritime EPPO Zone

KCP	Crop Code	Variety	UNTREATED		PROSULFOCARB 900 EC 900 g/L 3.5l/ha 3150 g a.s./ha	PROSULFOCARB 900 EC 900 g/L 4.4l/ha 3960 g a.s./ha	PROSULFOCARB 900 EC 900 g/L 7l/ha 6300 g a.s./ha	PROSULFOCARB 900 EC 900 g/L 8.8l/ha 7920 g a.s./ha	Boxer 800 EC 800 G/L 3l/ha 2400 g a.s./ha	Boxer 800 EC 800 G/L 4l/ha 3200 g a.s./ha	Boxer 800 G/L 5l/ha 4000 g a.s./ha	Boxer 800 EC 800 G/L 6l/ha 4800 g a.s./ha	Boxer 800 EC 800 G/L 8l/ha 6400 g a.s./ha	Boxer 800 G/L 10l/ha 8000 g a.s./ha
			% control	SNK										
KCP 6.4-02	TRZAW	Graindor	8.32	100.0 -		96.4 - CS		98.9 - CS			97.4 - Defi			96.8 - Defi
KCP 6.4-09	TRZAW	KWS Talent	11.32	100.0 -		98.8 - CS		98.9 - CS		98.6 -			99.3 -	
KCP 6.4-16	TRZAW	Skyscraper	8.53	100.0 -	102.4 -		107.1 -				102.9 -			100.1 -
KCP 6.4-18	TRZAW	Hereford	7.1	100.0 ab	99.6 ab		98.0 ab				99.0 ab			101.2 a
KCP 6.4-08	TRZAW	Bohemia	9.95	100.0 -		100.9 - CS		100.1 - CS		96.1 -			97.5	
KCP 6.4-10	TRZAW	Viriato	9.3	100.0 a		99.9 a CS		99.5 a CS	99.6 a			100.7 a		

EPPO zone	Crop code	Assessm. type (unit)	Absolut value in the untreated control			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 4.4l/ha			PROSULFOCARB 900 EC at 7l/ha			PROSULFOCARB 900 EC at 8.8l/ha			Boxer 800 EC at 3l/ha			Boxer 800 EC at 4l/ha			Boxer at 5l/ha			Boxer 800 EC at 6l/ha			Boxer 800 EC at 8l/ha			Boxer at 10l/ha		
			Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
EPOMAR	TRZAW	Yield (t/ha)	9.1	7.1-11.3	6	101.0	99.6-102.4	2	99.0	96.4-100.9	4	102.5	98-107.1	2	99.3	98.9-100.1	4	99.6	99.6-99.6	1	97.4	96.1-98.6	2	99.7	97.4-102.9	3	100.7	100.7-100.7	1	98.4	97.5-99.3	2	99.4	96.8-101.2	3

KCP	Crop Code	Variety	UNTREATED		PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	Defi	Defi	Defi	Defi
					900 g/L	900 g/L	900 g/L	900 g/L	800 G/L	800 G/L	800 G/L	800 G/L
			% control	SNK	2.6l/ha	5.4l/ha	5.4l/ha	5.4l/ha	3l/ha	5l/ha	6l/ha	10l/ha
					2340 g a.s./ha	2340-2430 g a.s./ha	4860 g a.s./ha	4860 g a.s./ha	2400 g a.s./ha	4000 g a.s./ha	4800 g a.s./ha	8000 g a.s./ha
KCP 6.4-12	TRZDW	Anvergur	6.92	100.0 -	101.4 - CS		89.7 - CS		98.9 -		85.2 -	
KCP 6.4-13	TRZDW	Envergur	7.64	100.0 -		95.8 -		98.7 -		98.4 -		101.3 -
KCP 6.4-14	TRZDW	RGT VOILUR	8.04	100.0 ab		101.3 a		98.8 ab		91.8 ab		92.2 ab

[illegible]

**Table 0-55: Impact on yield compared to the UTC (set at 100%) on winter barley under weed free conditions – pre-em – Maritime EPPO zone**

KCP	Crop Code	Variety	UNTREATED		PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	Boxer 800 EC	Boxer	Boxer 800 EC	Boxer
			%	SNK	900 g/L	900 g/L	900 g/L	900 g/L	800 G/L	800 GA/L	800 G/L	800 GA/L
			control		3.5l/ha	4.4l/ha	7l/ha	8.8l/ha	4l/ha	5l/ha	8l/ha	10l/ha
					3150 g a.s./ha	3960 g a.s./ha	6300 g a.s./ha	7920 g a.s./ha	3200 g a.s./ha	4000 g a.s./ha	6400 g a.s./ha	8000 g a.s./ha
KCP 6.4-04	HORVW	KWS Kosmos	12.68	100.0 -		98.7 - CS		99.5 - CS	101.7 - Fidox		98.9 - Fidox	
KCP 6.4-15	HORVW	KWS Meridian	7.98	100.0 -	95.1 -		101.6 -			99.1 -		97.2 -
KCP 6.4-01	HORVW	KWS Meridian	8.32	100.0 a		103.4 a CS		100.8 a CS		104.7 a		99.7 a
KCP 6.4-03	HORVW	Kosmos	11.2	100.0 cd		100.9 bcd CS		100.0 cd CS	104.9 a		100.7 bcd	

EPPO zone	Crop code	Assessment type (unit)	Absolute value in the untreated control			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 4.4l/ha			PROSULFOCARB 900 EC at 7l/ha			PROSULFOCARB 900 EC at 8.8l/ha			Boxer 800 EC at 4l/ha			Boxer at 5l/ha			Boxer 800 EC at 8l/ha			Boxer at 10l/ha		
			Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
EPOMAR	HORVW	Yield (t/ha)	10.0	8-12.7	4	95.1	95.1-95.1	1	101.0	98.7-103.4	3	101.6	101.6-101.6	1	100.1	99.5-100.8	3	103.3	101.7-104.9	2	101.9	99.1-104.7	2	99.8	98.9-100.7	2	98.4	97.2-99.7	2

KCP 6.4-07	SECCW	Dankowskie rubin	7.54	100.0 a		87.6 b	CS		85.5 bc	CS		87.7 b	Defi		84.5 bcd	Defi
KCP 6.4-19	SECCW	Herakles	6.23	100.0 -	99.9 -			101.2 -				99.5 -			99.5 -	
KCP 6.4-05	SECCW	INSPECTOR	5.46	100.0 bc		98.2 bc	CS		93.4 c	CS	104.6 bc			107.0 b		
KCP 6.4-06	SECCW	HelTop	7.57	100.0 -		98.0 -	CS		101.6 -	CS		101.8 -			101.1 -	

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EPOMAR	SECCW	Yield (t/ha)	6.7	5.5-7.6	4	99.9	99.9-99.9	1	94.6	87.6-98.2	3	101.2	101.2-101.2	1	93.5	85.5-101.6	3	104.6	104.6-104.6	1	96.3	87.7-101.8	3	107.0	107-107	1	95.0	84.5-101.1	3
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### **North-East EPPO Zone**

In the tables below, the phytotoxic effects observed in weed free trials are compared to the effects on the yield of those trials (only for trials where a significant phytotoxicity was observed). Slight differences observed could be attributed to natural variation and were not statistically significant in the vast majority of cases. The relationship between phytotoxicity and yield is discussed above in the phytotoxicity section 3.4.1. Detailed yield data are summarized from Table 0-60 on.

In the North-East EPPO zone, a total of 20 trials were carried out on winter cereals in at least 2 seasons for each crop, between 2018 and 2021.

In general no statistically significant differences on yield were observed between plots treated with GLOB1913H (Prosulfocarb 900 EC) and untreated plots. The data were also in line with the reference products containing 800 g/L of prosulfocarb, demonstrating that the pre-emergence use of GLOB1913H at the requested rates does not have a negative impact on the yield of winter cereals in the absence of weeds.

In only 2 out of 5 trials in rye in (KCP 6.4-46 and KCP 6.4-52), variety Dankowskie Diament and Elvi , a statistically significant reduction in yield was observed, KCP 6.4-46 (var. Dankowskie Diament, only at 2N 8.8 L/ha) and KCP 6.4-52 (var. Elvi, either at 3.5 or 7 L/ha). The same effects were observed for the reference product applied at similar or even lower amount of active substance.

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**Table 0-57: Relationship between phytotoxicity and yield on winter soft wheat – pre-em - North-East EPPO zone**

Test report	Variety	Maximum phyto. at 1N rate (%) (DAA)		Maximum phyto. at 2N (or other) rate (%) (DAA)		Yield in the untreated control	Yield at 1N as % of untreated				Yield at 2N as % of untreated	
		GLOB1913H	Standard*	GLOB1913H	Standard*	Absolute figures (ton/ha)	GLOB1913H	(rate)	Standard	(rate)	GLOB1913H	Standard
soft winter wheat												
KCP 6.4-51	Kallas	7.5 (203)	12.5 (203)	5(203)	12.5 (203)	5.83	109.0	3.5 L/ha	106.4	3 L/ha	98.6	102.8

**Table 0-58: Relationship between phytotoxicity and yield on winter barley – pre-em – North-East EPPO zone**

Test report	Variety	Maximum phyto. at 1N rate (%) (DAA)		Maximum phyto. at 2N (or other) rate (%) (DAA)		Yield in the untreated control  Absolute figures (ton/ha)	Yield at 1N as % of untreated				Yield at 2N as % of untreated	
		GLOB1913H	Standard*	GLOB1913H	Standard*		GLOB1913H	(rate)	Standard	(rate)	GLOB1913H	Standard
winter barley												
KCP 6.4-114	Mizzi	7.5 (196)	6.3 (196)	8.8 (42)	6.3 (196)	4.3	101.9	3.5 L/ha	102.3	4 L/ha	96.0	96.3
KCP 6.4-44	Veronika	11.3 (28)	11.3(14)	16.3(28)	11.3(14)	5.3	99.5	4.4 L/ha	100.0	3 L/ha	102.8	102.1

**Table 0-59: Relationship between phytotoxicity and yield on winter rye– pre-em – North-East EPPO zone**

Test report	Variety	Maximum phyto. at 1N rate (%) (DAA)		Maximum phyto. at 2N (or other) rate (%) (DAA)		Yield in the untreated control  Absolute figures (ton/ha)	Yield at 1N as % of untreated				Yield at 2N as % of untreated	
		GLOB1913H	Standard*	GLOB1913H	Standard*		GLOB1913H	(rate)	Standard	(rate)	GLOB1913H	Standard
winter rye												
KCP 6.4-46	Dankowskie Diament	6.5 (29)	6 (29)	13.8 (29)	12.5 (29)	7.26a	99.5ab	4.4 L/ha	99.3ab	4 L/ha	94.8b	97.7ab
KCP 6.4-47	Serafino	12.5 (153)	8.8 (153)	12.5 (153)	15 (153)	9.84a	98.5a	4.4 L/ha	91.7ab	4 L/ha	94ab	100.2a
KCP 6.4-52	Elvi	27.5(203)	20(203)	27.5(15)	27.5(15)	3.81a	80.7c	3.5 L/ha	91.7b	3 L/ha	80.2c	85.9bc

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### Detailed yield data - North-East EPPO Zone

**Table 0-60:** Impact on yield compared to the UTC (set at 100%) on winter soft wheat under weed free conditions – pre-em – North-East EPPO zone

KCP	Crop Code	Variety	UNTREATED		PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	Boxer 800 EC	Boxer 800 EC	Boxer 800 EC	Boxer 800 EC
			% control SNK		900 g/L 3.5l/ha 3150 g a.s./ha	900 g/L 4.4l/ha 3960 g a.s./ha	900 g/L 7l/ha 6300 g a.s./ha	900 g/L 8.8l/ha 7920 g a.s./ha	800 G/L 2.5l/ha 2000 g a.s./ha	800 G/L 3l/ha 2400 g a.s./ha	800 G/L 5l/ha 4000 g a.s./ha	800 G/L 6l/ha 4800 g a.s./ha
KCP 6.4-42	TRZAW	KEPLER	7.57	100.0 -		98.9 - CS		98.9 - CS		100.5 -		101.0 -
KCP 6.4-48	TRZAW	KEPLER	6.23	100.0 -		98.4 - CS		103.7 - CS		98.9 -		101.1 -
KCP 6.4-51	TRZAW	Kallas	5.83	100.0 -	109.0 -		98.6 -			106.4 -		102.8 -
KCP 6.4-58	TRZAW	Kena DS	8.14	100.0 -	102.7 -		103.6 -		98.1 -		97.0 -	

EPPO zone	Crop code	Assessment type (unit)	Absolute value in the untreated control			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 4.4l/ha			PROSULFOCARB 900 EC at 7l/ha			PROSULFOCARB 900 EC at 8.8l/ha			Boxer 800 EC at 2.5l/ha			Boxer 800 EC at 3l/ha			Boxer 800 EC at 5l/ha			Boxer 800 EC at 6l/ha		
			Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
NE	TRZAW	Yield (t/ha)	6.9	5.8-8.1	4	105.8	102.7-109	2	98.7	98.4-98.9	2	101.1	98.6-103.6	2	101.3	98.9-103.7	2	98.1	98.1-98.1	1	101.9	98.9-106.4	3	97.0	97-97	1	101.6	101-102.8	3

### Supportive CZ/DE/Maritime Poland trials

KCP	Crop Code	Variety	UNTREATED		PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	Boxer 800 EC	Boxer 800 EC	Boxer 800 EC	Boxer 800 EC	Boxer 800 EC	Boxer 800 EC
			% control SNK		900 g/L 3.5l/ha 3150 g a.s./ha	900 g/L 4.4l/ha 3960 g a.s./ha	900 g/L 7l/ha 6300 g a.s./ha	900 g/L 8.8l/ha 7920 g a.s./ha	800 G/L 3l/ha 2400 g a.s./ha	800 G/L 4l/ha 3200 g a.s./ha	800 G/L 5l/ha 4000 g a.s./ha	800 G/L 6l/ha 4800 g a.s./ha	800 G/L 8l/ha 6400 g a.s./ha	800 G/L 10l/ha 8000 g a.s./ha
KCP 6.4-08	TRZAW	Bohemia	9.95	100.0 -		100.9 - CS		100.1 - CS		96.1 -			97.5	
KCP 6.4-10	TRZAW	Viriato	9.3	100.0 a		99.9 a CS		99.5 a CS		99.6 a		100.7 a		

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**Table 0-61: Impact on yield compared to the UTC (set at 100%) on winter barley under weed free conditions – pre-em – North-East EPPO zone**

KCP	Crop Code	Variety	UNTREATED		PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	Boxer 800 EC	Roxy 800 EC	Boxer 800 EC	Roxy 800 EC
			% control SNK		900 g/L 3.5l/ha 3150 g a.s./ha	900 g/L 4.4l/ha 3960 g a.s./ha	900 g/L 7l/ha 6300 g a.s./ha	900 g/L 8.8l/ha 7920 g a.s./ha	800 G/L 3l/ha 2400 g a.s./ha	800 G/L 4l/ha 3200 g a.s./ha	800 G/L 6l/ha 4800 g a.s./ha	800 G/L 8l/ha 6400 g a.s./ha
KCP 6.4-43	HORVW	KWS KOSMOS	5.7	100.0 -		97.9 - CS		98.7 - CS	99.9 -		96.7 -	
KCP 6.4-44	HORVW	Veronika	5.3	100.0 a		99.5 a CS		102.8 a CS	100.0 a		102.1 a	
KCP 6.4-114	HORVW	Mizzi	4.3	100.0 -	101.9 -		96.0 -			102.3 -		96.3 -
KCP 6.4-115	HORVW	KWS Kosmos	7.7	100.0 -	100.8 -		102.2 -			97.6 -		101.6 -
KCP 6.4-116	HORVW	Carola	5.3	100.0 -	96.9 -		93.8 -			96.2 -		99.1 -

EPPO zone	Crop code	Assessment type (unit)	Absolut value in the untreated control			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 4.4l/ha			PROSULFOCARB 900 EC at 7l/ha			PROSULFOCARB 900 EC at 8.8l/ha			Boxer 800 EC at 3l/ha			Roxy 800 EC at 4l/ha			Boxer 800 EC at 6l/ha			Roxy 800 EC at 8l/ha		
			Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
NE	HORVW	Yield (t/ha)	5.7	4.3-7.7	5	99.9	96.9-101.9	3	98.7	97.9-99.5	2	97.3	93.8-102.2	3	100.8	98.7-102.8	2	99.9	99.9-100	2	98.7	96.2-102.3	3	99.4	96.7-102.1	2	99.0	96.3-101.6	3

**Supportive CZ/DE trials**

KCP	Crop Code	Variety	UNTREATED		PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	Boxer 800 EC	Boxer 800 GA/L	Boxer 800 EC	Boxer 800 GA/L
			% control SNK		900 g/L 3.5l/ha 3150 g a.s./ha	900 g/L 4.4l/ha 3960 g a.s./ha	900 g/L 7l/ha 6300 g a.s./ha	900 g/L 8.8l/ha 7920 g a.s./ha	800 G/L 4l/ha 3200 g a.s./ha	800 GA/L 5l/ha 4000 g a.s./ha	800 G/L 8l/ha 6400 g a.s./ha	800 GA/L 10l/ha 8000 g a.s./ha
KCP 6.4-01	HORVW	KWS Meridian	8.32	100.0 a		103.4 a CS		100.8 a CS		104.7 a		99.7 a
KCP 6.4-03	HORVW	Kosmos	11.2	100.0 cd		100.9 bcd CS		100.0 cd CS	104.9 a		100.7 bcd	

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**Table 0-62: Impact on yield compared to the UTC (set at 100%) on winter rye under weed free conditions – pre-em – North-East EPPO zone**

KCP	Crop Code	Variety	UNTREATED		PROSULFOCARB 900 EC 900 g/L 3.5l/ha 3150 g a.s./ha	PROSULFOCARB 900 EC 900 g/L 4.4l/ha 3960 g a.s./ha	PROSULFOCARB 900 EC 900 g/L 7l/ha 6300 g a.s./ha	PROSULFOCARB 900 EC 900 g/L 8.8l/ha 7920 g a.s./ha	Boxer 800 EC 800 G/L 2.5l/ha 2000 g a.s./ha	Boxer 800 EC 800 G/L 3l/ha 2400 g a.s./ha	Boxer 800 EC 800 G/L 4l/ha 3200 g a.s./ha	Boxer 800 EC 800 G/L 5l/ha 4000 g a.s./ha	Boxer 800 EC 800 G/L 6l/ha 4800 g a.s./ha	Boxer 800 EC 800 G/L 8l/ha 6400 g a.s./ha
			% control	SNK										
KCP 6.4-45	SECCW	SERAFINO	6.3	100.0 -		105.4 -	CS	102.7 -	CS	98.2 -			100.1 -	
KCP 6.4-46	SECCW	Dankowskie Diamant	7.26	100.0 a		99.5 ab	CS	94.8 b	CS		99.3 ab			97.7 ab
KCP 6.4-47	SECCW	Serafino	9.84	100.0 a		98.5 a	CS	94.0 ab	CS		91.7 ab			100.2 a
KCP 6.4-52	SECCW	Elvi	3.81	100.0 a	80.7 c		80.2 c			91.7 b			85.9 bc	
KCP 6.4-54	SECCW	Elias	1.58	100.0 -	76.9 -		101.9 -		94.3 -			83.8 -		

EPPO zone	Crop code	Assessment type (unit)	Absolut value in the untreated control			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 4.4l/ha			PROSULFOCARB 900 EC at 7l/ha			PROSULFOCARB 900 EC at 8.8l/ha			Boxer 800 EC at 2.5l/ha			Boxer 800 EC at 3l/ha			Boxer 800 EC at 4l/ha			Boxer 800 EC at 5l/ha			Boxer 800 EC at 6l/ha			Boxer 800 EC at 8l/ha		
			Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
NE	SECCW	Yield (t/ha)	5.8	1.6-9.8	5	78.8	76.9-80.7	2	101.2	98.5-105.4	3	91.1	80.2-101.9	2	97.2	94-102.7	3	94.3	94.3-94.3	1	95.0	91.7-98.2	2	95.5	91.7-99.3	2	83.8	83.8-83.8	1	93.0	85.9-100.1	2	98.9	97.7-100.2	2

In 2 trials conducted in Estonia and Lithuania in 2020, low yields were obtained on winter rye due to dry conditions. Especially on trial KCP 6.4-54, it is reported that due to the sweltering heat, crop development was very fast – cereal leaves withered prematurely and harvest for winter cereals started earlier than usual. This must be taken into account when analyzing the final results.

### Supportive CZ/DE trials

KCP	Crop Code	Variety	UNTREATED		PROSULFOCARB 900 EC 900 g/L 3.5l/ha 3150 g a.s./ha	PROSULFOCARB 900 EC 900 g/L 4.4l/ha 3960 g a.s./ha	PROSULFOCARB 900 EC 900 g/L 7l/ha 6300 g a.s./ha	PROSULFOCARB 900 EC 900 g/L 8.8l/ha 7920 g a.s./ha	Boxer 800 EC 800 G/L 4l/ha 3200 g a.s./ha	Boxer 800 EC 800 G/L 5l/ha 4000 g a.s./ha	Boxer 800 EC 800 G/L 8l/ha 6400 g a.s./ha	Boxer 800 EC 800 G/L 10l/ha 8000 g a.s./ha
			% control	SNK								
KCP 6.4-05	SECCW	INSPECTOR	5.46	100.0 bc		98.2 bc	CS	93.4 c	CS	104.6 bc		107.0 b
KCP 6.4-06	SECCW	HelTop	7.57	100.0 -		98.0 -	CS	101.6 -	CS	101.8 -		101.1 -

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**Table 0-63: Impact on yield compared to the UTC (set at 100%) on winter triticale under weed free conditions – pre-em – North-East EPPO zone**

KCP	Crop Code	Variety	UNTREATED		PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	Boxer 800 EC	Boxer 800 EC	Boxer 800 EC	Boxer 800 EC
			% control	SNK	900 g/L 3.5l/ha 3150 g a.s./ha	900 g/L 4.4l/ha 3960 g a.s./ha	900 g/L 7l/ha 6300 g a.s./ha	900 g/L 8.8l/ha 7920 g a.s./ha	800 G/L 2.5l/ha 2000 g a.s./ha	800 G/L 3l/ha 2400 g a.s./ha	800 G/L 5l/ha 4000 g a.s./ha	800 G/L 6l/ha 4800 g a.s./ha
KCP 6.4-49	TTLWI	PORTO	5.1	100.0 -		94.6 - CS		102.7 - CS		97.8 -		98.6 -
KCP 6.4-50	TTLWI	Tadeus	6.1	100.0 -		100.6 - CS		97.8 - CS		99.3 -		98.7 -
KCP 6.4-53	TTLWI	Sequenz	4.3	100.0 -	102.9 -		98.7 -		96.6 -		94.6 -	
KCP 6.4-57	TTLWI	Cappricia	6.87	100.0 -	102.3 -		99.1 -		97.5 -		98.6 -	

EPPO zone	Crop code	Assessment type (unit)	Absolut value in the untreated control			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 4.4l/ha			PROSULFOCARB 900 EC at 7l/ha			PROSULFOCARB 900 EC at 8.8l/ha			Boxer 800 EC at 2.5l/ha			Boxer 800 EC at 3l/ha			Boxer 800 EC at 5l/ha			Boxer 800 EC at 6l/ha		
			Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
NE	TTLWI	Yield (t/ha)	5.6	4.3-6.9	4	102.6	102.3-102.9	2	97.6	94.6-100.6	2	98.9	98.7-99.1	2	100.3	97.8-102.7	2	97.1	96.6-97.5	2	98.5	97.8-99.3	2	96.6	94.6-98.6	2	98.7	98.6-98.7	2

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### South-East EPPO Zone

As no phytotoxic effects were observed in weed free trials, no tables are presented with comparison between level of symptoms and effects on the yield Detailed yield data are summarized from Table 0-64 on.

In the South-East EPPO zone, one trial was carried out on wheat and one on barley in pre-emergence. No statistically significant differences on yield were observed between plots treated with GLOB1913H (Prosulfocarb 900 EC) and untreated plots.

### Detailed yield data - South-East EPPO Zone

**Table 0-64: Impact on yield compared to the UTC (set at 100%) on winter soft wheat under weed free conditions– pre-em – South-East EPPO zone**

KCP	Crop Code	Variety	UNTREATED			PROSULFOCARB 900 EC			PROSULFOCARB 900 EC			Boxer			Boxer		
			% control SNK			900 g/L 4.4l/ha 3960 g a.s./ha			900 g/L 8.8l/ha 7920 g a.s./ha			800 G/L 3l/ha 2400 g a.s./ha			800 G/L 6l/ha 4800 g a.s./ha		
KCP 6.4-118	TRZAW	Limbergh	3.4	100.0	-	100.0	-	4L/ha	96.5	-	8 L/ha	99.7	-	3 L/ha	94.4	-	Fidox

EPPO zone	Crop code	Assessm. type (unit)	Absolut value in the untreated control			PROSULFOCARB 900 EC at 4.4l/ha			PROSULFOCARB 900 EC at 8.8l/ha			Boxer at 3l/ha			Boxer at 6l/ha		
			Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
S-E	TRZAW	Yield (t/ha)	3.4	3.4-3.4	1	100.0	100-100	1	96.5	96.5-96.5	1	99.7	99.7-99.7	1	94.4	94.4-94.4	1

**Table 0-65: Impact on yield compared to the UTC (set at 100%) on winter barley under weed free conditions – pre-em – South-East EPPO zone**

KCP	Crop Code	Variety	UNTREATED			PROSULFOCARB 900 EC			PROSULFOCARB 900 EC			Boxer			Boxer		
			% control SNK			900 g/L 4.4l/ha 3960 g a.s./ha			900 g/L 8.8l/ha 7920 g a.s./ha			800 G/L 3l/ha 2400 g a.s./ha			800 G/L 6l/ha 4800 g a.s./ha		
KCP 6.4-117	HORVW	SU Jule	7	100.0	-	97.2	-	4L/ha	96.4	-	8 L/ha	98.4	-	3 L/ha	102.3	-	Fidox

EPPO zone	Crop code	Assessm. type (unit)	Absolut value in the untreated control			PROSULFOCARB 900 EC at 4.4l/ha			PROSULFOCARB 900 EC at 8.8l/ha			Boxer at 3l/ha			Boxer at 6l/ha		
			Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
S-E	HORVW	Yield (t/ha)	7.0	7-7	1	97.2	97.2-97.2	1	96.4	96.4-96.4	1	98.4	98.4-98.4	1	102.3	102.3-102.3	1

### **Mediterranean**

In the tables below, the phytotoxic effects observed in weed free trials are compared to the effects on the yield of those trials (only for trials where a significant phytotoxicity was observed). Slight differences observed could be attributed to natural variation and were not statistically significant in the vast majority of cases. The relationship between phytotoxicity and yield is discussed above in the phytotoxicity section 3.4.1. Detailed yield data are summarized from Table 0-69 on.

In the Mediterranean EPPO zone, a total of 22 trials were carried out in pre-emergence on winter cereals in at least 2 seasons for each crop, between 2018 and 2021, except on triticale where only one year was tested.

In general no statistically significant differences on yield were observed between plots treated with GLOB1913H (Prosulfocarb 900 EC) and untreated plots. The data were also in line with the reference products containing 800 g/L of prosulfocarb, demonstrating that the pre-emergence use of GLOB1913H at the requested rates does not have a negative impact on the yield of winter cereals in the absence of weeds.

In only 1 out of 5 trials in wheat in (KCP 6.4-36), variety Akim, a statistically significant reduction in yield was observed at the highest rate tested (5.4 L/ha). This was not observed for the reference product which however was not based on Prosulfocarb.

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**Table 0-66: Relationship between phytotoxicity and yield on winter soft wheat – pre-em – Mediterranean EPPO zone**

Test report	Variety	Maximum phyto. at 1N rate (%) (DAA)		Maximum phyto. at 2N (or other) rate (%) (DAA)		Yield in the untreated control  Absolute figures (ton/ha)	Yield at 1N as % of untreated				Yield at 2N as % of untreated	
		GLOB1913H	Standard*	GLOB1913H	Standard*		GLOB1913H	(rate)	Standard	(rate)	GLOB1913H	Standard
Winter wheat												
KCP 6.4-28	Giorgione	6.3 (32)	1.3 (32)	23.8 (32)	12.5 (32)	5.3	105.8	4.4 L/ha	108.1	4 L/ha	107.1	99.5
KCP 6.4-27	Solindo	7.5 (95)	12.5 (65)	10 (65)	10 (65)	2.78*	122.9	4.4 L/ha	125.1	5 L/ha	108.8	115.7

\*Presence of weed at harvest, comparison relevant between treated plots

**Table 0-67: Relationship between phytotoxicity and yield on winter durum wheat – pre-em – Mediterranean EPPO zone**

Test report	Variety	Maximum phyto. at 1N rate (%) (DAA)		Maximum phyto. at 2N (or other) rate (%) (DAA)		Yield in the untreated control  Absolute figures (ton/ha)	Yield at 1N as % of untreated				Yield at 2N as % of untreated	
		GLOB1913H	Standard*	GLOB1913H	Standard*		GLOB1913H	(rate)	Standard	(rate)	GLOB1913H	Standard
		winter durum wheat										
KCP 6.4-37	ANVERGUR	0.0	21.3	9.3 (32)	47.5	2.47	113.7	2.7 L/ha	113.47	0.6L/ha (Fosbury)	102.59	115.57
KCP 6.4-40	BRANCALEONE	2.8 (95)	21.3 (123)	12.5 (123)	55 (123)	7.26 a	92 ab	2.7 L/ha	68.4 c	0.6L/ha (Battle Delta)	85.2 abc	44.3 d

**Table 0-68: Relationship between phytotoxicity and yield on winter barley – pre-em – Mediterranean EPPO zone**

Test report	Variety	Maximum phyto. at 1N rate (%) (DAA)		Maximum phyto. at 2N (or other) rate (%) (DAA)		Yield in the untreated control  Absolute figures (ton/ha)	Yield at 1N as % of untreated				Yield at 2N as % of untreated	
		GLOB1913H	Standard*	GLOB1913H	Standard*		GLOB1913H	(rate)	Standard	(rate)	GLOB1913H	Standard
KCP 6.4-23	RAFAELA	50(30)	47.5(30)	65(30)	67.5(30)	3.95*	97.7	4.4 L/ha	100.0	5 L/ha	94.9	90.2
KCP 6.4-25	CALANQUE	17.5 (119)	21.3 (119)	18.8 (119)	27.5 (119)	5.38	105.2	4.4 L/ha	104.7	4 L/ha	110.2	107.9

\*Presence of weed at harvest, comparison relevant between treated plots

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### Detailed yield data - Mediterranean EPPO Zone

**Table 0-69: Impact on yield compared to the UTC (set at 100%) on winter soft wheat under weed free conditions– pre-em – Mediterranean EPPO zone**

KCP	Crop Code	Variety	UNTREATED		PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	Roxy 800 EC	Roxy 800 EC	Roxy 800 EC	Roxy 800 EC	Herold	
			% control	SNK	900 g/L 2.6-2.7l/ha 2340-2430 g a.s./ha	900 g/L 4.4l/ha 3960 g a.s./ha	900 g/L 5.4l/ha 4860 g a.s./ha	900 g/L 8.8l/ha 7920 g a.s./ha	800 G/L 4l/ha 3200 g a.s./ha	800 G/L 5l/ha 4000 g a.s./ha	800 G/L 8l/ha 6400 g a.s./ha	800 G/L 10l/ha 8000 g a.s./ha	600 G/L 0.3l/ha 180 g a.s./ha	
KCP 6.4-26	TRZAW	TOCAÑO	3.66	100.0 -		97.1 - CS		103.3 - CS		103.9 - Auros		100.7 - Auros		
KCP 6.4-27	TRZAW	Solindo	2.78	100.0 -		122.9 - CS		108.8 - CS		125.1 - Defi		115.7 - Defi		
KCP 6.4-28	TRZAW	Giorgione	5.3	100.0 -		105.8 - CS		107.1 - CS	108.1 -		99.5 -			
KCP 6.4-36	TRZAW	Akim	2.36	100.0 d	102.6 d		93.9 e						112.6 a	106.
KCP 6.4-38	TRZAW	Falado	5.29	100.0 -	99.4 -		96.5 -							100.

EPPO zone	Crop code	Assessm. type (unit)	Absolut value in the untreated control			PROSULFOCARB 900 EC at 2.6-2.7l/ha			PROSULFOCARB 900 EC at 4.4l/ha			PROSULFOCARB 900 EC at 5.4l/ha			PROSULFOCARB 900 EC at 8.8l/ha			Roxy 800 EC at 4l/ha			Roxy 800 EC at 5l/ha			Roxy 800 EC at 8l/ha			Roxy 800 EC at 10l/ha			Herold at 0.3l/ha			
			Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean
MED	TRZAW	Yield (t/ha)	3.9	2.4-5.3	5	101.0	99.4-102.6	2	108.6	97.1-122.9	3	95.2	93.9-96.5	2	106.4	103.3-108.8	3	108.1	108.1-108.1	1	114.5	103.9-125.1	2	99.5	99.5-99.5	1	108.2	100.7-115.7	2	112.6	112.6-112.6	1	103.3

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**Table 0-70: Impact on yield compared to the UTC (set at 100%) on winter durum wheat under weed free conditions – pre-em – Mediterranean EPPO zone**

KCP	Crop Code	Variety	UNTREATED			PROSULFOCARB 900 EC 900 g/L 2.6-2.7l/ha			PROSULFOCARB 900 EC 900 g/L 5.4l/ha			Roxy 800 EC 800 G/L 4l/ha			Roxy 800 EC 800 G/L 5l/ha			Roxy 800 EC 800 G/L 8l/ha			Roxy 800 EC 800 G/L 10l/ha			Defi 800 G/L 3l/ha			Defi 800 G/L 6l/ha			Herold 600 G/L 0.6l/ha			Herold 600 G/L 1.2l/ha		
			% control	SNK		2340-2430 g a.s./ha			4860 g a.s./ha			3200 g a.s./ha			4000 g a.s./ha			6400 g a.s./ha			8000 g a.s./ha			2400 g a.s./ha			4800 g a.s./ha			360 g a.s./ha			720 g a.s./ha		
KCP 6.4-31	TRZD W	EURODURO	2.8	100.0	-	106.4	-	CS	103.8	-	CS				104.7	-	Auros				101.4	-	Auros												
KCP 6.4-32	TRZD W	AVISPA	2.84	100.0	-	100.1	-	CS	99.0	-	CS				100.2	-	Auros				97.9	-	Auros												
KCP 6.4-33	TRZD W	ANVERGUR	7.31	100.0	a	90.6	abc	CS	87.9	abc	CS													96.1	ab		89.2	abc							
KCP 6.4-34	TRZD W	Levante	4.33	100.0	-	100.9	-	CS	102.3	-	CS																			101.5	-	Fuga Delta	100.8	-	Fuga Delta
KCP 6.4-35	TRZD W	Levante	3.45	100.0	-	88.7	-	CS	84.7	-	CS	99.3	-				85.5	-																	
KCP 6.4-37	TRZD W	ANVERGUR	2.47	100.0	-	113.7	-		102.6	-																				113.5	-	Fosburi	115.6	-	Fosburi
KCP 6.4-40	TRZD W	BRANCALEONE	7.26	100.0	a	92.0	ab		85.2	abc																				68.4	c	Battle Delta	44.3	d	Battle Delta
KCP 6.4-41	TRZD W	Levante	2.44	100.0	-	97.6	-		92.9	-																				112.6	-	Battle Delta	98.8	-	Battle Delta

EPPO zone	Crop code	Assessm. type (unit)	Absolut value in the untreated control			PROSULFOCAR B 900 EC at 2.6-2.7l/ha			PROSULFOCAR B 900 EC at 5.4l/ha			Roxy 800 EC at 4l/ha			Roxy 800 EC at 5l/ha			Roxy 800 EC at 8l/ha			Roxy 800 EC at 10l/ha			Defi at 3l/ha			Defi at 6l/ha			Herold at 0.6l/ha			Herold at 1.2l/ha		
			Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
MED	TRZD W	Yield (t/ha)	4.1	2.4-7.3	8	98.7	88.7-113.7	8	94.8	84.7-103.8	8	99.3	99.3-99.3	1	102.4	100.2-104.7	2	85.5	85.5-85.5	1	99.6	97.9-101.4	2	96.1	96.1-96.1	1	89.2	89.2-89.2	1	99.0	68.4-113.5	4	89.9	44.3-115.6	4

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**Table 0-71: Impact on yield compared to the UTC (set at 100%) on winter barley under weed free conditions – pre-em – Mediterranean EPPO zone**

KCP	Crop Code	Variety	UNTREATED		PROSULFOCARB 900 EC 900 g/L 2.6-2.7l/ha 2340-2430 g a.s./ha	PROSULFOCARB 900 EC 900 g/L 4.4l/ha 3960 g a.s./ha	PROSULFOCARB 900 EC 900 g/L 5.4l/ha 4860 g a.s./ha	PROSULFOCARB 900 EC 900 g/L 8.8l/ha 7920 g a.s./ha	Roxy 800 EC 800 G/L 4l/ha 3200 g a.s./ha	Roxy 800 EC 800 G/L 5l/ha 4000 g a.s./ha	Roxy 800 EC 800 G/L 8l/ha 6400 g a.s./ha	Roxy 800 EC 800 G/L 10l/ha 8000 g a.s./ha	Herold 600 G/L 0.6l/ha 360 g a.s./ha	Herold 600 G/L 1.2l/ha 720 g a.s./ha
			% control SNK											
KCP 6.4-20	HORV W	Zlatko	4.67	100.0 -		100.1 -	CS	101.9 -	CS	99.7 -	Filon	100.7 -	Filon	
KCP 6.4-21	HORV W	Treveler	1.77	100.0 -		105.1 -	CS	110.5 -	CS	109.3 -	Auros	100.5 -	Auros	
KCP 6.4-22	HORV W	Traveler	1.86	100.0 -		103.9 -	CS	104.2 -	CS	102.2 -	Auros	108.6 -	Auros	
KCP 6.4-23	HORV W	Rafaela	3.95	100.0 -		97.7 -	CS	94.9 -	CS	100.0 -	Defi	90.2 -	Defi	
KCP 6.4-24	HORV W	Barun	5.42	100.0 -		101.2 -	CS	100.0 -	CS	104.0 -	Filon	100.2 -	Filon	
KCP 6.4-25	HORV W	Calanque	5.38	100.0 -		105.2 -	CS	110.2 -	CS	104.7 -		107.9 -		
KCP 6.4-39	HORV W	Meseta	5.23	100.0 a	99.8 a		99.6 a						99.7 a Battle Delta	98.5 a Battle Delta

EPPO zone	Crop code	Assessm. type (unit)	Absolut value in the untreated control			PROSULFOCARB 900 EC at 2.6-2.7l/ha			PROSULFOCARB 900 EC at 4.4l/ha			PROSULFOCARB 900 EC at 5.4l/ha			PROSULFOCARB 900 EC at 8.8l/ha			Roxy 800 EC at 4l/ha			Roxy 800 EC at 5l/ha			Roxy 800 EC at 8l/ha			Roxy 800 EC at 10l/ha			Herold at 0.6l/ha			Herold at 1.2l/ha		
			Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
MED	HORV W	Yield (t/ha)	4.0	1.8-5.4	7	99.8	99.8-99.8	1	102.2	97.7-105.2	6	99.6	99.6-99.6	1	103.6	94.9-110.5	6	104.7	104.7-104.7	1	103.0	99.7-109.3	5	107.9	107.9-107.9	1	100.0	90.2-108.6	5	99.7	99.7-99.7	1	98.5	98.5-98.5	1

**Table 0-72: Impact on yield compared to the UTC (set at 100%) on winter triticale under weed free conditions – pre-em – Mediterranean EPPO zone**

KCP	Crop Code	Variety	Crop BBCH at appl.	UNTREATED		PROSULFOCARB 900 EC 900 g/L 4.4l/ha 3960 g a.s./ha	PROSULFOCARB 900 EC 900 g/L 8.8l/ha 7920 g a.s./ha	PROSULFOCARB 900 EC 900 g/L 10l/ha 8000 g a.s./ha
				% control SNK				
KCP 6.4-29	TTLWI	FIDO	3	4.49	100.0 -	95.0 -	CS	91.4 -
KCP 6.4-30	TTLWI	Vivacio	5	7.9	100.0 -	103.9 -	CS	99.5 -

EPPO zone	Crop code	Assessm. type (unit)	Crop BBCH at appl.	Absolut value in the untreated control			PROSULFOCARB 900 EC at 4.4l/ha			PROSULFOCARB 900 EC at 8.8l/ha			Roxy 800 EC at 5l/ha			Roxy 800 EC at 10l/ha		
				Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
MED	TTLWI	Yield (t/ha)	3-5	6.2	4.5-7.9	2	99.4	95-103.9	2	95.4	91.4-99.5	2	96.5	91.8-101.2	2	96.6	90.4-102.8	2

## Cereals - Post-emergence application

In all the selectivity trials GLOB1913H was applied once according to the GAP table (crop BBCH 10-29) at the rates of 3.5 - 4.4 L/ha (N) and 7 – 8.8 L/ha (2N), respectively representing the target rates and the double target rates of application. Durum wheat represents an exception as the rate of 2.6 L/ha was the maximum tested, following requested rate and currently authorized amount of prosulfocarb for the reference products (i.e. France).

Commercial standards, were as well applied at authorized rate N and 2N as comparison. Details of the reference standards used in trials and application rates are presented in Table 0-4.

Plots were harvested individually to give results in kg per plot, and then converted to metric tons per ha. The percentage relative to the control is shown in the tables below and the absolute values assessed are reported for the untreated check.

Furthermore, a comparison of the phytotoxicity encountered in the weed free trials and the yield from those trials where a significant phytotoxicity was observed is presented below. Statistical analysis was made as letter test based on Student-Newman-Keuls ( $P = 0.05$ ). Letters accompanying yield absolute values correspond to the post-hoc test result for the UTC value set at 100%. Where no letter is presented no difference was registered among treatments.

Details on trial methodology for selectivity trials on cereals with post-emergence application are summarized in Table 0-9, Table 0-10, Table 0-11, Table 0-12, split for each EPPO climatic zone.

### Maritime EPPO Zone

In the tables below, the phytotoxic effects observed in weed free trials are compared to the effects on the yield of those trials (only for trials where a significant phytotoxicity was observed). Slight differences observed could be attributed to natural variation and were not statistically significant in the vast majority of cases. The relationship between phytotoxicity and yield is discussed above in the phytotoxicity section 3.4.1. Detailed yield data are summarized from Table 0-76 on.

In the Maritime EPPO zone, a total of 17 trials were carried out on winter cereals in at least 2 seasons for each crop, between 2018 and 2021.

No statistically significant differences on yield were observed between plots treated with GLOB1913H (Prosulfocarb 900 EC) and untreated plots. The data were also in line with the reference products containing 800 g/L of prosulfocarb, demonstrating that the pre-emergence use of GLOB1913H at the requested rates does not have a negative impact on the yield of winter cereals in the absence of weeds.

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**Table 0-73: Relationship between phytotoxicity and yield on winter wheat – post-em - Maritime EPPO zone**

Test report	Variety	Maximum phyto. at 1N rate (%) (DAA)		Maximum phyto. at 2N (or other) rate (%) (DAA)		Yield in the untreated control  Absolute figures (ton/ha)	Yield at 1N as % of untreated				Yield at 2N as % of untreated	
		GLOB1913H	Standard*	GLOB1913H	Standard*		GLOB1913H	(rate)	Standard	(rate)	GLOB1913H	Standard
Winter wheat												
KCP 6.4-74	Linus	0	0	10(7)	20(13)	7.7b	108.8a	3.5 L/ha	106.9a	5 L/ha	108.4a	109.9a

**Table 0-74: Relationship between phytotoxicity and yield on winter barley –post-em - Maritime EPPO zone**

Test report	Variety	Maximum phyto. at 1N rate (%) (DAA)		Maximum phyto. at 2N (or other) rate (%) (DAA)		Yield in the untreated control  Absolute figures (ton/ha)	Yield at 1N as % of untreated				Yield at 2N as % of untreated	
		GLOB1913H	Standard*	GLOB1913H	Standard*		GLOB1913H	(rate)	Standard	(rate)	GLOB1913H	Standard
Winter barley												
KCP 6.4-63	Fabian	70 (14)	57.5 (14)	80 (14)	77.5 (14)	7.71abc	96.4abc	4.4 L/ha	106.8a	4 L/ha	103.8abc	92.7c
KCP 6.4-64	Jettoo	2.8 (14)	3.5 (14)	15 (14)	5 (14)	8.0	108.99	4.4 L/ha	95.02	5 L/ha	103.21	113.68
KCP 6.4-76	Verity	0.8 (6)	0 (6)	6.3 (6)	8.8 (6)	9.1	101.42	3.5 L/ha	100.05	5 L/ha	97.61	99.28

**Table 0-75: Relationship between phytotoxicity and yield on winter rye –post-em - Maritime EPPO zone**

Test report	Variety	Maximum phyto. at 1N rate (%) (DAA)		Maximum phyto. at 2N (or other) rate (%) (DAA)		Yield in the untreated control  Absolute figures (ton/ha)	Yield at 1N as % of untreated				Yield at 2N as % of untreated	
		GLOB1913H	Standard*	GLOB1913H	Standard*		GLOB1913H	(rate)	Standard	(rate)	GLOB1913H	Standard
Winter rye							GLOB1913H	(rate)	Standard	(rate)	GLOB1913H	Standard
KCP 6.4-67	INSPECTOR	7.5 (28)	2 (28)	14.5 (28)	8 (28)	5.22	101	4.4 L/ha	104.42	4 L/ha	98.54	98.66
KCP 6.4-73	Serafino	0	0	11.3 (14)	9 (14)	9.07	101.14	3.5 L/ha	101.85	5 L/ha	100.55	102.06

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### Detailed yield data - Maritime EPPO Zone

**Table 0-76: Impact on yield compared to the UTC (set at 100%) on winter soft wheat under weed free conditions – post-em – Maritime EPPO zone**

KCP	Crop Code	Variety	Crop BBCH at appl.	UNTREATED		PROSULFOCARB 900 EC 900 g/L 3.5l/ha 3150 g a.s./ha	PROSULFOCARB 900 EC 900 g/L 4.4l/ha 3960 g a.s./ha	PROSULFOCARB 900 EC 900 g/L 7l/ha 6300 g a.s./ha	PROSULFOCARB 900 EC 900 g/L 8.8l/ha 7920 g a.s./ha	Roxy 800 EC 800 G/L 4l/ha 3200 g a.s./ha	Roxy 800 EC 800 G/L 5l/ha 4000 g a.s./ha	Roxy 800 EC 800 G/L 8l/ha 6400 g a.s./ha	Roxy 800 EC 800 g/L 10l/ha 8000 g a.s./ha
				10.4	100.0 -		102.3 - CS		104.0 - CS		101.5 -		101.7 -
KCP 6.4-66	TRZAW	KWS Talent	12	8.1	100.0 -	99.7 -		98.9 -			102.1 - Boxer		99.5 - Boxer
KCP 6.4-72	TRZAW	Informer	12	7.7	100.0 b	108.8 a		108.4 a			106.9 a Boxer		109.9 a Boxer
KCP 6.4-74	TRZAW	Linus	12	7.52	100.0 -		104.9 - CS		102.6 - CS	104.2 -		104.7 -	

EPPO zone	Crop code	Assessm. type (unit)	Crop BBCH at appl.	Absolut value in the untreated control			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 4.4l/ha			PROSULFOCARB 900 EC at 7l/ha			PROSULFOCARB 900 EC at 8.8l/ha			Roxy 800 EC at 4l/ha			Roxy 800 EC at 5l/ha			Roxy 800 EC at 8l/ha			Roxy 800 EC at 10l/ha		
				Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
MAR	TRZAW	Yield (t/ha)	12-12	8.4	7.5-10.4	4	104.3	99.7-108.8	2	103.6	102.3-104.9	2	103.7	98.9-108.4	2	103.3	102.6-104	2	104.2	104.2-104.2	1	103.5	101.5-106.9	3	104.7	104.7-104.7	1	103.7	99.5-109.9	3

**Table 0-77: Impact on yield compared to the UTC (set at 100%) on winter durum wheat under weed free conditions – post-em – Maritime EPPO zone**

KCP	Crop Code	Variety	Crop BBCH at appl.	UNTREATED		PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	Defi	Defi	Defi	Defi
					% control	900 g/L 2.6-2.7l/ha 2340-2430 g a.s./ha	900 g/L 5.4l/ha 4860 g a.s./ha	800 G/L 3l/ha 2400 g a.s./ha	800 G/L 5l/ha 4000 g a.s./ha	800 G/L 6l/ha 4800 g a.s./ha	800 G/L 10l/ha 8000 g a.s./ha
KCP 6.4-62	TRZDW	Voilur	13	5.7	100.0 a	111.9 a	CS	98.1 a		101.4 a	
KCP 6.4-70	TRZDW	Envergur	11	7.6	100.0 -	101.1 -		97.7 -	102.2 -		103.5 -
KCP 6.4-71	TRZDW	ANVERGUR	12	4.3	100.0 -	103.9 -	109.7 -		93.5 -		101.8 -

EPPO zone	Crop code	Assessm. type (unit)	Crop BBCH at appl.	Absolut value in the untreated control			PROSULFOCARB 900 EC at 2.6-2.7l/ha			PROSULFOCARB 900 EC at 5.4l/ha			Defi at 3l/ha			Defi at 5l/ha			Defi at 6l/ha			Defi at 10l/ha		
				Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
MAR	TRZDW	Yield (t/ha)	11-13	5.9	4.3-7.6	3	105.6	101.1-111.9	3	104.9	97.7-109.7	3	98.1	98.1-98.1	1	97.9	93.5-102.2	2	101.4	101.4-101.4	1	102.6	101.8-103.5	2

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Globachem NV/Central Zone

**Table 0-78: Impact on yield compared to the UTC (set at 100%) on winter barley under weed free conditions – post-em – Maritime EPPO zone**

KCP	Crop Code	Variety	Crop BBCH at appl.	UNTREATED		PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	Roxy 800 EC	Roxy 800 EC	Roxy 800 EC	Roxy 800 EC
				% control SNK		900 g/L 3.5l/ha 3150 g a.s./ha	900 g/L 4.4l/ha 3960 g a.s./ha	900 g/L 7l/ha 6300 g a.s./ha	900 g/L 8.8l/ha 7920 g a.s./ha	800 G/L 4l/ha 3200 g a.s./ha	800 G/L 5l/ha 4000 g a.s./ha	800 G/L 8l/ha 6400 g a.s./ha	800 G/L 10l/ha 8000 g a.s./ha
KCP 6.4-64	HORVW	Jettoo	11	8.0	100.0 -		109.0 - CS		103.2 - CS		95.0 -		113.7 -
KCP 6.4-76	HORVW	Verity	11	9.1	100.0 -	101.4 -		97.6 -			100.1 - Boxer		99.3 - Boxer
KCP 6.4-63	HORVW	Fabian	12	7.71	100.0 abc		96.4 abc CS		103.8 abc CS	106.8 a		92.7 c	

EPPO zone	Crop code	Assessm. type (unit)	Crop BBCH at appl.	Absolut value in the untreated control			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 4.4l/ha			PROSULFOCARB 900 EC at 7l/ha			PROSULFOCARB 900 EC at 8.8l/ha			Roxy 800 EC at 4l/ha			Roxy 800 EC at 5l/ha			Roxy 800 EC at 8l/ha			Roxy 800 EC at 10l/ha		
				Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
MAR	HORVW	Yield (t/ha)	11-12	8.2	7.7-9.1	3	101.4	101.4-101.4	1	102.7	96.4-109	2	97.6	97.6-97.6	1	103.5	103.2-103.8	2	106.8	106.8-106.8	1	97.5	95-100.1	2	92.7	92.7-92.7	1	106.5	99.3-113.7	2

**Table 0-79: Impact on yield compared to the UTC (set at 100%) on winter rye under weed free conditions – post-em – Maritime EPPO zone**

KCP	Crop Code	Variety	Crop BBCH at appl.	UNTREATED		PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	Roxy 800 EC	Roxy 800 EC	Roxy 800 EC	Roxy 800 EC
						900 g/L	900 g/L	900 g/L	900 g/L	800 G/L	800 G/L	800 G/L	800 G/L
				% control	SNK	3.5l/ha	4.4l/ha	7l/ha	8.8l/ha	4l/ha	5l/ha	8l/ha	10l/ha
						3150 g a.s./ha	3960 g a.s./ha	6300 g a.s./ha	7920 g a.s./ha	3200 g a.s./ha	4000 g a.s./ha	6400 g a.s./ha	8000 g a.s./ha
KCP 6.4-60	SECCW	Dankowskie robin	13	9.0	100.0 -		101.0 - CS		99.2 - CS		104.0 -		99.1 -
KCP 6.4-73	SECCW	Serafino	11	9.1	100.0 -	101.1 -		100.6 -			101.9 - Boxer		102.1 - Boxer
KCP 6.4-67	SECCW	INSPECTOR	12	5.22	100.0 -		101.0 - CS		98.5 - CS	104.4 -		98.7 -	

EPPO zone	Crop code	Assessm. type (unit)	Crop BBCH at appl.	Absolut value in the untreated control			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 4.4l/ha			PROSULFOCARB 900 EC at 7l/ha			PROSULFOCARB 900 EC at 8.8l/ha			Roxy 800 EC at 4l/ha			Roxy 800 EC at 5l/ha			Roxy 800 EC at 8l/ha			Roxy 800 EC at 10l/ha		
				Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
MAR	SECCW	Yield (t/ha)	11-13	7.8	5.2-9.1	3	101.1	101.1-101.1	1	101.0	101-101	2	100.6	100.6-100.6	1	98.8	98.5-99.2	2	104.4	104.4-104.4	1	102.9	101.9-104	2	98.7	98.7-98.7	1	100.6	99.1-102.1	2

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Globachem NV/Central Zone

**Table 0-80: Impact on yield compared to the UTC (set at 100%) on winter triticale under weed free conditions – post-em – Maritime EPPO zone**

KCP	Crop Code	Variety	Crop BBCH at appl.	UNTREATED		PROSULFOCARB 900 EC 900 g/L 3.5l/ha 3150 g a.s./ha	PROSULFOCARB 900 EC 900 g/L 4.4l/ha 3960 g a.s./ha	PROSULFOCARB 900 EC 900 g/L 7l/ha 6300 g a.s./ha	PROSULFOCARB 900 EC 900 g/L 8.8l/ha 7920 g a.s./ha	Roxy 800 EC 800 G/L 5l/ha 4000 g a.s./ha	Roxy 800 EC 800 G/L 10l/ha 8000 g a.s./ha	Herold 600 SC 600 g/L 0.35l/ha 210 g a.s./ha	Herold 600 SC 600 g/L 0.7l/ha 420 g a.s./ha
				% control	SNK								
KCP 6.4-61	TTLWI	OMEAC	12	7.7	100.0 b		103.8 ab	CS	103.7 ab	CS	100.7 b	103.3 ab	
KCP 6.4-75	TTLWI	Cappricia	11	6.3	100.0 -	95.6 -		96.3 -		98.6 -	Boxer	93.6 -	Boxer
KCP 6.4-69	TTLWI	Barolo	12	4.77	100.0 -		100.4 -	CS	96.6 -	CS	103.9 -	Boxer	98.8 -
KCP 6.4-59	TTLWI	Trapero	11	3.8	100.0 -		99.3 -	CS	98.9 -	CS		101.9 -	101.6 -

EPPO zone	Crop code	Assessm. type (unit)	Crop BBCH at appl.	Absolut value in the untreated control			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 4.4l/ha			PROSULFOCARB 900 EC at 7l/ha			PROSULFOCARB 900 EC at 8.8l/ha			Roxy 800 EC at 5l/ha			Roxy 800 EC at 10l/ha			Herold 600 SC at 0.35l/ha			Herold 600 SC at 0.7l/ha		
				Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
MAR	TTLWI	Yield (t/ha)	11-12	5.6	3.8-7.7	4	95.6	95.6-95.6	1	101.2	99.3-103.8	3	96.3	96.3-96.3	1	99.7	96.6-103.7	3	101.1	98.6-103.9	3	98.6	93.6-103.3	3	101.9	101.9-101.9	1	101.6	101.6-101.6	1

In one trial conducted in maritime part of Poland in 2019, low yield was obtained on winter triticale due to dry conditions during the trial.

### **North-East EPPO Zone**

In the tables below, the phytotoxic effects observed in weed free trials are compared to the effects on the yield of those trials (only for trials where a significant phytotoxicity was observed). Slight differences observed could be attributed to natural variation and were not statistically significant in the vast majority of cases. The relationship between phytotoxicity and yield is discussed above in the phytotoxicity section 3.4.1. Detailed yield data are summarized from Table 0-84 on.

In the North-East EPPO zone, a total of 11 trials were carried out on winter cereals in at least 2 seasons for each crop, between 2018 and 2021.

No statistically significant differences on yield were observed between plots treated with GLOB1913H (Prosulfocarb 900 EC) and untreated plots. The data were also in line with the reference products containing 800 g/L of prosulfocarb, demonstrating that the pre-emergence use of GLOB1913H at the requested rates does not have a negative impact on the yield of winter cereals in the absence of weeds.

In only 1 out of 3 trials in rye (KCP 6.4-107 carried out in Estonia on variety Elvi), a statistically significant reduction in yield was observed equally at N and 2N. A smaller reduction was observed for the reference product but this was applied at a lower amount of a.s.

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Globachem NV/Central Zone

**Table 0-81: Relationship between phytotoxicity and yield on winter soft wheat – post-em - North-East EPPO zone**

Test report	Variety	Maximum phyto. at 1N rate (%) (DAA)		Maximum phyto. at 2N (or other) rate (%) (DAA)		Yield in the untreated control	Yield at 1N as % of untreated				Yield at 2N as % of untreated	
		GLOB1913H	Standard*	GLOB1913H	Standard*	Absolute figures (ton/ha)	GLOB1913H	(rate)	Standard	(rate)	GLOB1913H	Standard
Winter wheat												
KCP 6.4-108	Ada	22.5 (203)	17.5	32.5 (203)	25	4.1	104.05	3.5 L/ha	104.74	3 L/ha	102.67	103.16

**Table 0-82: Relationship between phytotoxicity and yield on winter rye– post-em – North-East EPPO zone**

Test report	Variety	Maximum phyto. at 1N rate (%) (DAA)		Maximum phyto. at 2N (or other) rate (%) (DAA)		Yield in the untreated control  Absolute figures (ton/ha)	Yield at 1N as % of untreated				Yield at 2N as % of untreated	
		GLOB1913H	Standard*	GLOB1913H	Standard*		GLOB1913H	(rate)	Standard	(rate)	GLOB1913H	Standard
Winter rye												
KCP 6.4-107	Elvi	17.5 (191)	10 (191)	22.5 (191)	12.5 (191)	4.47ab	88.6c	3.5 L/ha	97.5ab	5 L/ha	86.6c	96.7ab

**Table 0-83: Relationship between phytotoxicity and yield on winter tritcale– post-em – North-East EPPO zone**

Test report	Variety	Maximum phyto. at 1N rate (%) (DAA)		Maximum phyto. at 2N (or other) rate (%) (DAA)		Yield in the untreated control	Yield at 1N as % of untreated				Yield at 2N as % of untreated	
		GLOB1913H	Standard*	GLOB1913H	Standard*	Absolute figures (ton/ha)	GLOB1913H	(rate)	Standard	(rate)	GLOB1913H	Standard
Winter tritcale												
KCP 6.4-106	Sekret	1.8 (14)	2 (14)	13.8 (14)	1.5 (14)	3.14	98.3	4.4 L/ha	94.31	3 L/ha	97.79	100

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Globachem NV/Central Zone

**Detailed yield data - North-East EPPO Zone****Table 0-84: Impact on yield compared to the UTC (set at 100%) on winter soft wheat under weed free conditions – post-em – North-East EPPO zone**

KCP	Crop Code	Variety	Crop BBCH at appl.	UNTREATED			PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	Boxer 800 EC	Boxer 800 EC	Boxer 800 EC	Boxer 800 EC
				% control SNK			900 g/L 3.5l/ha 3150 g a.s./ha	900 g/L 4.4l/ha 3960 g a.s./ha	900 g/L 7l/ha 6300 g a.s./ha	900 g/L 8.8l/ha 7920 g a.s./ha	800 G/L 3l/ha 2400 g a.s./ha	800 G/L 4l/ha 3200 g a.s./ha	800 G/L 6l/ha 4800 g a.s./ha	800 G/L 8l/ha 6400 g a.s./ha
KCP 6.4-104	TRZAW	Patras	12	7.23	100.0 -			98.7 - CS		97.6 - CS		99.9 - Roxy		99.5 - Roxy
KCP 6.4-108	TRZAW	Ada	12	4.1	100.0 -		104.1 -		102.7 -		104.7 -		103.2 -	
KCP 6.4-113	TRZAW	Etana	12	9	100.0 -		102.9 -		107.0 -			106.0 -		106.0 -

EPPO zone	Crop code	Assessm. type (unit)	Crop BBCH at appl.	Absolut value in the untreated control			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 4.4l/ha			PROSULFOCARB 900 EC at 7l/ha			PROSULFOCARB 900 EC at 8.8l/ha			Boxer 800 EC at 3l/ha			Boxer 800 EC at 4l/ha			Boxer 800 EC at 6l/ha			Boxer 800 EC at 8l/ha		
				Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
NE	TRZAW	Yield (t/ha)	12-12	6.8	4.1-9	3	103.5	102.9-104.1	2	98.7	98.7-98.7	1	104.9	102.7-107	2	97.6	97.6-97.6	1	104.7	104.7-104.7	1	102.9	99.9-106	2	103.2	103.2-103.2	1	102.8	99.5-106	2

**Supportive CZ/DE trials**

KCP	Crop Code	Variety	Crop BBCH at appl.	UNTREATED			PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	Roxy 800 EC	Roxy 800 EC	Roxy 800 EC	Roxy 800 EC
				% control SNK			900 g/L 3.5l/ha 3150 g a.s./ha	900 g/L 4.4l/ha 3960 g a.s./ha	900 g/L 7l/ha 6300 g a.s./ha	900 g/L 8.8l/ha 7920 g a.s./ha	800 G/L 4l/ha 3200 g a.s./ha	800 G/L 5l/ha 4000 g a.s./ha	800 G/L 8l/ha 6400 g a.s./ha	800 g/L 10l/ha 8000 g a.s./ha
KCP 6.4-65	TRZAW	Tobak	12	7.52	100.0 -			104.9 - CS		102.6 - CS	104.2 -		104.7 -	

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Globachem NV/Central Zone

**Table 0-85: Impact on yield compared to the UTC (set at 100%) on winter barley under weed free conditions – post-em – North-East EPPO zone**

KCP	Crop Code	Variety	Crop BBCH at appl.	UNTREATED		PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	Boxer 800 EC	Boxer 800 EC	Boxer 800 EC	Boxer 800 EC
				% control		900 g/L 3.5l/ha 3150 g a.s./ha	900 g/L 4.4l/ha 3960 g a.s./ha	900 g/L 7l/ha 6300 g a.s./ha	900 g/L 8.8l/ha 7920 g a.s./ha	800 G/L 3l/ha 2400 g a.s./ha	800 G/L 4l/ha 3200 g a.s./ha	800 G/L 6l/ha 4800 g a.s./ha	800 G/L 8l/ha 6400 g a.s./ha
KCP 6.4-103	HORVW	Ida	12	5	100.0 -		102.1 - CS		118.8 - CS	100.2 -		115.6 -	
KCP 6.4-109	HORVW	Meridian	12	2.73	100.0 -	124.7 -		116.9 -			120.1 -		99.5 -
KCP 6.4-112	HORVW	KWS Meridian	11	8.05	100.0 -	108.5 -		104.3 -			104.6 -		106.4 -

EPPO zone	Crop code	Assessm. type (unit)	Crop BBCH at appl.	Absolut value in the untreated control			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 4.4l/ha			PROSULFOCARB 900 EC at 7l/ha			PROSULFOCARB 900 EC at 8.8l/ha			Boxer 800 EC at 3l/ha			Boxer 800 EC at 4l/ha			Boxer 800 EC at 6l/ha			Boxer 800 EC at 8l/ha		
				Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
NE	HORVW	Yield (t/ha)	11-12	5.3	2.7-8.1	3	116.6	108.5-124.7	2	102.1	102.1-102.1	1	110.6	104.3-116.9	2	118.8	118.8-118.8	1	100.2	100.2-100.2	1	112.4	104.6-120.1	2	115.6	115.6-115.6	1	103.0	99.5-106.4	2

**Supportive CZ/DE trials**

KCP	Crop Code	Variety	Crop BBCH at appl.	UNTREATED		PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	Roxy 800 EC	Roxy 800 EC	Roxy 800 EC	Roxy 800 EC
				% control		900 g/L 3.5l/ha 3150 g a.s./ha	900 g/L 4.4l/ha 3960 g a.s./ha	900 g/L 7l/ha 6300 g a.s./ha	900 g/L 8.8l/ha 7920 g a.s./ha	800 G/L 4l/ha 3200 g a.s./ha	800 G/L 5l/ha 4000 g a.s./ha	800 G/L 8l/ha 6400 g a.s./ha	800 G/L 10l/ha 8000 g a.s./ha
KCP 6.4-63	HORVW	Fabian	12	7.71	100.0 abc		96.4 abc CS		103.8 abc CS	106.8 a		92.7 c	

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Globachem NV/Central Zone

**Table 0-86: Impact on yield compared to the UTC (set at 100%) on winter rye under weed free conditions – post-em – North-East EPPO zone**

KCP	Crop Code	Variety	Crop BBCH at appl.	UNTREATED		PROSULFOCARB 900 EC 900 g/L 3.5l/ha 3150 g a.s./ha	PROSULFOCARB 900 EC 900 g/L 4.4l/ha 3960 g a.s./ha	PROSULFOCARB 900 EC 900 g/L 7l/ha 6300 g a.s./ha	PROSULFOCARB 900 EC 900 g/L 8.8l/ha 7920 g a.s./ha	Boxer 800 EC 800 G/L 3l/ha 2400 g a.s./ha	Boxer 800 EC 800 G/L 4l/ha 3200 g a.s./ha	Boxer 800 EC 800 G/L 6l/ha 4800 g a.s./ha	Boxer 800 EC 800 G/L 8l/ha 6400 g a.s./ha
				% control	SNK								
KCP 6.4-105	SECCW	Hadron	13	6.02	100.0 -		100.3 -	CS	101.7 -	CS	100.4 -		100.2 -
KCP 6.4-107	SECCW	Elvi	11	4.47	100.0 ab	88.6 c		86.6 c		97.5 ab		96.7 ab	
KCP 6.4-111	SECCW	SU Performer	13	7.77	100.0 -	93.6 -		92.4 -			91.3 -		102.2 -

EPPO zone	Crop code	Assessm. type (unit)	Crop BBCH at appl.	Absolut value in the untreated control			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 4.4l/ha			PROSULFOCARB 900 EC at 7l/ha			PROSULFOCARB 900 EC at 8.8l/ha			Boxer 800 EC at 3l/ha			Boxer 800 EC at 4l/ha			Boxer 800 EC at 6l/ha			Boxer 800 EC at 8l/ha		
				Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
NE	SECCW	Yield (t/ha)	11-13	6.1	4.5-7.8	3	91.1	88.6-93.6	2	100.3	100.3-100.3	1	89.5	86.6-92.4	2	101.7	101.7-101.7	1	98.9	97.5-100.4	2	91.3	91.3-91.3	1	98.5	96.7-100.2	2	102.2	102.2-102.2	1

**Supportive CZ/DE trials**

KCP	Crop Code	Variety	Crop BBCH at appl.	UNTREATED		PROSULFOCARB 900 EC 900 g/L 3.5l/ha 3150 g a.s./ha	PROSULFOCARB 900 EC 900 g/L 4.4l/ha 3960 g a.s./ha	PROSULFOCARB 900 EC 900 g/L 7l/ha 6300 g a.s./ha	PROSULFOCARB 900 EC 900 g/L 8.8l/ha 7920 g a.s./ha	Roxy 800 EC 800 G/L 4l/ha 3200 g a.s./ha	Roxy 800 EC 800 G/L 5l/ha 4000 g a.s./ha	Roxy 800 EC 800 G/L 8l/ha 6400 g a.s./ha	Roxy 800 EC 800 G/L 10l/ha 8000 g a.s./ha
				% control	SNK								
KCP 6.4-67	SECCW	INSPECTOR	12	5.22	100.0 -		101.0 -	CS	98.5 -	CS	104.4 -		98.7 -

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Globachem NV/Central Zone

**Table 0-87: Impact on yield compared to the UTC (set at 100%) on winter triticale under weed free conditions – post-em – North-East EPPO zone**

KCP	Crop Code	Variety	Crop BBCH at appl.	UNTREATED		PROSULFOCARB 900 EC 900 g/L 3.5l/ha 3150 g a.s./ha	PROSULFOCARB 900 EC 900 g/L 4.4l/ha 3960 g a.s./ha	PROSULFOCARB 900 EC 900 g/L 7l/ha 6300 g a.s./ha	PROSULFOCARB 900 EC 900 g/L 8.8l/ha 7920 g a.s./ha	Boxer 800 EC 800 G/L 3l/ha 2400 g a.s./ha	Boxer 800 EC 800 G/L 4l/ha 3200 g a.s./ha	Boxer 800 EC 800 G/L 6l/ha 4800 g a.s./ha	Boxer 800 EC 800 G/L 8l/ha 6400 g a.s./ha
				% control	SNK								
KCP 6.4-106	TTLWI	Sekret	12	3.14	100.0 -		98.3 -	CS	97.8 -	CS	94.3 -		100.0 -
KCP 6.4-110	TTLWI	Cappricia	11	5.78	100.0 b	104.5 ab		101.1 b			112.8 ab		110.5 ab

EPPO zone	Crop code	Assessm. type (unit)	Crop BBCH at appl.	Absolut value in the untreated control			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 4.4l/ha			PROSULFOCARB 900 EC at 7l/ha			PROSULFOCARB 900 EC at 8.8l/ha			Boxer 800 EC at 3l/ha			Boxer 800 EC at 4l/ha			Boxer 800 EC at 6l/ha			Boxer 800 EC at 8l/ha		
				Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
NE	TTLWI	Yield (t/ha)	11-12	4.5	3.1-5.8	2	104.5	104.5-104.5	1	98.3	98.3-98.3	1	101.1	101.1-101.1	1	97.8	97.8-97.8	1	94.3	94.3-94.3	1	112.8	112.8-112.8	1	100.0	100-100	1	110.5	110.5-110.5	1

**Supportive CZ/DE/Maritime Poland trials**

KCP	Crop Code	Variety	Crop BBCH at appl.	UNTREATED		PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	Roxy 800 EC	Roxy 800 EC	Herold 600 SC	Herold 600 SC
				% control	SNK	900 g/L 3.5l/ha 3150 g a.s./ha	900 g/L 4.4l/ha 3960 g a.s./ha	900 g/L 7l/ha 6300 g a.s./ha	900 g/L 8.8l/ha 7920 g a.s./ha	800 G/L 5l/ha 4000 g a.s./ha	800 G/L 10l/ha 8000 g a.s./ha	600 g/L 0.35l/ha 210 g a.s./ha	600 g/L 0.7l/ha 420 g a.s./ha
KCP 6.4-69	TTLWI	Barolo	12	4.77	100.0 -		100.4 - CS		96.6 - CS	103.9 - Boxer	98.8 - Boxer		
KCP 6.4-59	TTLWI	Trapero	11	3.8	100.0 -		99.3 - CS		98.9 - CS			101.9 -	101.6 -

In one trial conducted in maritime part of Poland in 2019, low yield was obtained on winter triticale due to dry conditions during the trial.

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### South-East EPPO Zone

As no phytotoxic effects were observed in weed free trials, no tables are presented with comparison between level of symptoms and effects on the yield Detailed yield data are summarized from table Table 0-88 on.

In the South-East EPPO zone, one trial was carried out on wheat and one on barley in post-emergence. No statistically significant differences on yield were observed between plots treated with GLOB1913H (Prosulfocarb 900 EC) and untreated plots.

### Detailed yield data - South-East EPPO Zone

**Table 0-88: Impact on yield compared to the UTC (set at 100%) on winter soft wheat under weed free conditions– post-em – South-East EPPO zone**

KCP	Crop Code	Variety	Crop BBCH at appl.	UNTREATED			PROSULFOCARB 900 EC 900 g/L 4.4l/ha 3960 g a.s./ha			PROSULFOCARB 900 EC 900 g/L 8.8l/ha 7920 g a.s./ha			Boxer 800 G/L 3l/ha 2400 g a.s./ha			Boxer 800 G/L 6l/ha 4800 g a.s./ha		
KCP 6.4-120	TRZAW	Limbergh	12	3.2	100.0	-	105.0	-	4L/ha	107.2	-	8 L/ha	99.2	-	3 L/ha	103.7	-	Fidox

EPPO zone	Crop code	Assessm. type (unit)	Crop BBCH at appl.	Absolut value in the untreated control			PROSULFOCARB 900 EC at 4.4l/ha			PROSULFOCARB 900 EC at 8.8l/ha			Boxer at 3l/ha			Boxer at 6l/ha		
				Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
S-E	TRZAW	Yield (t/ha)	12	3.2	3.2-3.2	1	105.0	105-105	1	107.2	107.2-107.2	1	99.2	99.2-99.2	1	103.7	103.7-103.7	1

**Table 0-89: Impact on yield compared to the UTC (set at 100%) on winter barley under weed free conditions – post-em – South-East EPPO zone**

KCP	Crop Code	Variety	Crop BBCH at appl.	UNTREATED			PROSULFOCARB 900 EC 900 g/L 4.4l/ha 3960 g a.s./ha			PROSULFOCARB 900 EC 900 g/L 8.8l/ha 7920 g a.s./ha			Boxer 800 G/L 3l/ha 2400 g a.s./ha			Boxer 800 G/L 6l/ha 4800 g a.s./ha		
KCP 6.4-119	HORVW	SU Jule	11	7.1	100.0	-	97.8	-	4L/ha	95.6	-	8 L/ha	95.5	-	3 L/ha	93.0	-	Fidox

EPPO zone	Crop code	Assessm. type (unit)	Crop BBCH at appl.	Absolut value in the untreated control			PROSULFOCARB 900 EC at 4.4l/ha			PROSULFOCARB 900 EC at 8.8l/ha			Boxer at 3l/ha			Boxer at 6l/ha		
				Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
S-E	HORVW	Yield (t/ha)	11	7.1	7.1-7.1	1	97.8	97.8-97.8	1	95.6	95.6-95.6	1	95.5	95.5-95.5	1	93.0	93-93	1

### **Mediterranean**

In the tables below, the phytotoxic effects observed in weed free trials are compared to the effects on the yield of those trials (only for crops where a significant phytotoxicity was observed). Slight differences observed could be attributed to natural variation and were not statistically significant in the vast majority of cases. Detailed yield data are summarized from Table 0-94 on.

In the Mediterranean EPPO zone, a total of 26 trials were carried out in post-emergence on winter cereals in at least 2 seasons for each crop, between 2018 and 2021, except on triticale where only one year was tested.

No statistically significant differences on yield were observed between plots treated with GLOB1913H (Prosulfocarb 900 EC) and untreated plots. The data were also in line with the reference products containing 800 g/L of prosulfocarb, demonstrating that the pre-emergence use of GLOB1913H at the requested rates does not have a negative impact on the yield of winter cereals in the absence of weeds.

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**Table 0-90: Relationship between phytotoxicity and yield on winter soft wheat – post-em – Mediterranean EPPO zone**

Test report	Variety	Maximum phyto. at 1N rate (%) (DAA)		Maximum phyto. at 2N (or other) rate (%) (DAA)		Yield in the untreated control  Absolute figures (ton/ha)	Yield at 1N as % of untreated				Yield at 2N as % of untreated	
		GLOB1913H	Standard*	GLOB1913H	Standard*		GLOB1913H	(rate)	Standard	(rate)	GLOB1913H	Standard
		Winter wheat										
KCP 6.4-79	Sirtaki	30 (61)	0	40 (38)	1.6 (61)	6.48	101.2	4.4 L/ha	106.6	0.6 L/ha (Naceto)	96.0	103.8
KCP 6.4-85	Giorgione	0.6 (94)	7.5 (94)	6.3 (94)	4.4 (94)	5.48	113.5	4.4 L/ha	97.9	4 L/ha	107.0	104.9
KCP 6.4-92	Rebelde	10.3 (14)	4.8 (14)	10 (14)	13 (14)	4.13b	106.6ab	4.4 L/ha	109.4ab	5 L/ha	103.0b	100.2b
KCP 6.4-94	Rebelde	4.5 (15)	5.5 (15)	9.8 (15)	12.5 (15)	6.25	100.0	4.4 L/ha	100.5	4 L/ha	105.8	103.2

**Table 0-91: Relationship between phytotoxicity and yield on winter durum wheat – post-em – Mediterranean EPPO zone**

Test report	Variety	Maximum phyto. at 1N rate (%) (DAA)		Maximum phyto. at 2N (or other) rate (%) (DAA)		Yield in the untreated control  Absolute figures (ton/ha)	Yield at 1N as % of untreated				Yield at 2N as % of untreated	
		GLOBAL1913H	Standard*	GLOBAL1913H	Standard*		GLOBAL1913H	(rate)	Standard	(rate)	GLOBAL1913H	Standard
winter durum wheat												
KCP 6.4-100	Anvergur	6.3 (28)	10 (28)	10 (28)	35 (100)	4.05; 3.03*	114.5	2.6 L/ha	103.5	0.6 L/ha (Fosburv)	111.3	95.8

\*dry yield

**Table 0-92: Relationship between phytotoxicity and yield on winter barley – post-em – Mediterranean EPPO zone**

Test report	Variety	Maximum phyto. at 1N rate (%) (DAA)		Maximum phyto. at 2N (or other) rate (%) (DAA)		Yield in the untreated control  Absolute figures (ton/ha)	Yield at 1N as % of untreated				Yield at 2N as % of untreated	
		GLOB1913H	Standard*	GLOB1913H	Standard*		GLOB1913H	(rate)	Standard	(rate)	GLOB1913H	Standard
Winter barley												
KCP 6.4-88	Memento	0 (14)	1.8 (33)	15 (14)	12.5 (14)	4.99	91.6	4.4 L/ha	90.4	5 L/ha	78.8	81.1

**Table 0-93: Relationship between phytotoxicity and yield on winter triticale – post-em – Mediterranean EPPO zone**

Test report	Variety	Maximum phyto. at 1N rate (%) (DAA)		Maximum phyto. at 2N (or other) rate (%) (DAA)		Yield in the untreated control  Absolute figures (ton/ha)	Yield at 1N as % of untreated				Yield at 2N as % of untreated	
		GLOB1913H	Standard*	GLOB1913H	Standard*		GLOB1913H	(rate)	Standard	(rate)	GLOB1913H	Standard

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Winter tritcale												
KCP 6.4-97	Vivacio	5 (14)	15 (14)	20 (14)	25 (14)	7.9	103.8	4.4 L/ha	99.4	5 L/ha	94.9	97.5

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**Detailed yield data - Mediterranean EPPO Zone****Table 0-94: Impact on yield compared to the UTC (set at 100%) on winter soft wheat under weed free conditions– post-em – Mediterranean EPPO zone**

KCP	Crop Code	Variety	Crop BBC H at appl.	UNTREATED		PROSULFOCARB 900 EC 900 g/L 2.6-2.7l/ha 2340-2430 g a.s./ha	PROSULFOCARB 900 EC 900 g/L 4.4l/ha 3960 g a.s./ha	PROSULFOCARB 900 EC 900 g/L 5.4l/ha 4860 g a.s./ha	PROSULFOCARB 900 EC 900 g/L 8.8l/ha 7920 g a.s./ha	Roxy 800 EC 800 G/L 4l/ha 3200 g a.s./ha	Roxy 800 EC 800 G/L 5l/ha 4000 g a.s./ha	Roxy 800 EC 800 G/L 8l/ha 6400 g a.s./ha	Roxy 800 EC 800 G/L 10l/ha 8000 g a.s./ha	Herold 600 G/L 0.6l/ha 360 g a.s./ha	Herold 600 G/L 1.2l/ha 720 g a.s./ha
KCP 6.4-79	TRZAW	Sirtaki	12	6.48	100.0 -		101.2 - CS		96.0 - CS					106.6 - Naceto	103.8 - Naceto
KCP 6.4-80	TRZAW	TOCAÑO	13	3.7	100.0 -		99.4 - CS		104.5 - CS		101.4 - Auros		100.6 - Auros		
KCP 6.4-82	TRZAW	AVISPA	11	2.8	100.0 -	104.4 - CS		102.4 - CS			101.4 - Auros		101.8 - Auros		
KCP 6.4-84	TRZAW	Falado	13	6.77	100.0 -		104.6 - CS		99.4 - CS		100.9 - Filon		100.4 - Filon		
KCP 6.4-85	TRZAW	Giorgione	13	5.48	100.0 -		113.5 - CS		107.0 - CS	97.9 -		104.9 -			
KCP 6.4-91	TRZAW	TOCAÑO	12	3.64	100.0 -		101.8 - CS		99.7 - CS		99.6 - Auros		100.9 - Auros		
KCP 6.4-92	TRZAW	Rebelde	14	4.13	100.0 b		106.6 ab CS		103.0 b CS		109.4 ab		100.2 b		
KCP 6.4-93	TRZAW	Ingenio	11	6.5	100.0 -		101.8 - CS		102.0 - CS		101.4 - Filon		99.3 - Filon		
KCP 6.4-94	TRZAW	Rebelde	13	6.25	100.0 -		100.0 - CS		105.8 - CS	100.5 -		103.2 -			
KCP 6.4-95	TRZAW	Rebelde	14	3.0	100.0 -		109.0 - CS		97.0 - CS	100.8 -		108.7 -			
KCP 6.4-98	TRZAW	Akim	11	2.04	100.0 -	98.6 -		98.6 -						97.9 -	97.5 -
KCP 6.4-99	TRZAW	Tiepolo	13	5.95	100.0 -	93.4 -		88.0 -						96.3 - Fosburi	86.2 - Fosburi

EPPO zone	Crop code	Assessm. type (unit)	Crop BBC H at appl.	Absolut value in the untreated control			PROSULFOCARB 900 EC at 2.6-2.7l/ha			PROSULFOCARB 900 EC at 4.4l/ha			PROSULFOCARB 900 EC at 5.4l/ha			PROSULFOCARB 900 EC at 8.8l/ha			Roxy 800 EC at 4l/ha			Roxy 800 EC at 5l/ha			Roxy 800 EC at 8l/ha			Roxy 800 EC at 10l/ha			Herold at 0.6l/ha			Herold at 1.2l/ha		
				Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
MED	TRZAW	Yield (t/ha)	11-14	4.7	2-6.8	12	98.8	93.4-104.4	3	104.2	99.4-113.5	9	96.3	88-102.4	3	101.6	96-107	9	99.7	97.9-100.8	3	102.3	99.6-109.4	6	105.6	103.2-108.7	3	100.5	99.3-101.8	6	100.3	96.3-106.6	3	95.8	86.2-103.8	3

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**Table 0-95: Impact on yield compared to the UTC (set at 100%) on winter durum wheat under weed free conditions – post-em – Mediterranean EPPO zone**

KCP	Crop Code	Variety	Crop BBCH at appl.	UNTREATED % control SNK		PROSULFOCARB 900 EC 900 g/L 2.6-2.7/ha 2340-2430 g a.s./ha	PROSULFOCARB 900 EC 900 g/L 5.4l/ha 4860 g a.s./ha	Roxy 800 EC 800 G/L 4l/ha 3200 g a.s./ha	Roxy 800 EC 800 G/L 5l/ha 4000 g a.s./ha	Roxy 800 EC 800 G/L 8l/ha 6400 g a.s./ha	Roxy 800 EC 800 G/L 10l/ha 8000 g a.s./ha	Defi 800 G/L 3l/ha 2400 g a.s./ha	Defi 800 G/L 6l/ha 4800 g a.s./ha	Herold 600 G/L 0.6l/ha 360 g a.s./ha	Herold 600 G/L 1.2l/ha 720 g a.s./ha
KCP 6.4-100	TRZDW	ANVERGUR	12	3.03	100.0 -	114.5 -	111.3 -							103.5 - Fosburi	95.8 - Fosburi
KCP 6.4-101	TRZDW	Levante	13	3.89	100.0 -	100.1 -	98.9 -							99.1 - Fuga Delta	95.1 - Fuga Delta
KCP 6.4-77	TRZDW	Levante	11	2.4	100.0 -	98.3 -	100.0 -							96.9 - Battle Delta	95.0 - Battle Delta
KCP 6.4-81	TRZDW	EURO DURO	12	2.8	100.0 -	104.8 - CS	100.9 - CS		101.3 - Auros		101.8 - Auros				
KCP 6.4-83	TRZDW	ANVERGUR	14	7.04	100.0 -	99.6 - CS	94.9 - CS					92.2 -	100.2 -		
KCP 6.4-86	TRZDW	Pigreco	13	4	100.0 -	119.1 - CS	107.5 - CS	118.4 -		107.1 -					

EPPO zone	Crop code	Assessm. type (unit)	Crop BBCH at appl.	Absolut value in the untreated control			PROSULFOCARB 900 EC at 2.6-2.7l/ha			PROSULFOCARB 900 EC at 5.4l/ha			Roxy 800 EC at 4l/ha			Roxy 800 EC at 5l/ha			Roxy 800 EC at 8l/ha			Roxy 800 EC at 10l/ha			Defi at 3l/ha			Defi at 6l/ha			Herold at 0.6l/ha			Herold at 1.2l/ha		
				Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
MED	TRZDW	Yield (t/ha)	11-14	3.9	2.4-7	6	106.1	98.3-119.1	6	102.2	94.9-111.3	6	118.4	118.4-118.4	1	101.3	101.3-101.3	1	107.1	107.1-107.1	1	101.8	101.8-101.8	1	92.2	92.2-92.2	1	100.2	100.2-100.2	1	99.8	96.9-103.5	3	95.3	95-95.8	3

**Table 0-96: Impact on yield compared to the UTC (set at 100%) on winter barley under weed free conditions – post-em – Mediterranean EPPO zone**

KCP	Crop Code	Variety	Crop BBCH at appl.	UNTREATED % control SNK		PROSULFOCARB 900 EC 900 g/L 2.6-2.7/ha 2340-2430 g a.s./ha	PROSULFOCARB 900 EC 900 g/L 4.4l/ha 3960 g a.s./ha	PROSULFOCARB 900 EC 900 g/L 5.4l/ha 4860 g a.s./ha	PROSULFOCARB 900 EC 900 g/L 8.8l/ha 7920 g a.s./ha	Roxy 800 EC 800 G/L 4l/ha 3200 g a.s./ha	Roxy 800 EC 800 G/L 5l/ha 4000 g a.s./ha	Roxy 800 EC 800 G/L 8l/ha 6400 g a.s./ha	Roxy 800 EC 800 G/L 10l/ha 8000 g a.s./ha	Herold 600 G/L 0.6l/ha 360 g a.s./ha	Herold 600 G/L 1.2l/ha 720 g a.s./ha
KCP 6.4-102	HORVW	Bente	13	7.22	100.0 -	103.5 -		98.8 -						98.7 - Battle Delta	95.0 - Battle Delta
KCP 6.4-78	HORVW	Zlatko	11	4.65	100.0 -		99.9 - CS		98.6 - CS					99.0 - Fuga Delta	101.8 - Fuga Delta
KCP 6.4-87	HORVW	Treveler	13	1.57	100.0 -		105.5 - CS		108.3 - CS		109.0 - Auros		113.2 - Auros		
KCP 6.4-88	HORVW	Memento	13	4.99	100.0 -		91.6 - CS		78.8 - CS		90.4 -		81.1 -		
KCP 6.4-89	HORVW	Barun	13	5.27	100.0 -		101.8 - CS		99.1 - CS		101.8 - Filon		100.4 - Filon		
KCP 6.4-90	HORVW	IDRA	14	5.3	100.0 -		107.9 - CS		100.0 - CS	111.4 -		90.9 -			
EPPO zone	Crop code		Crop BBCH	Absolut value in the untreated control		PROSULFOCARB 900 EC at 2.6-2.7l/ha	PROSULFOCARB 900 EC at 4.4l/ha	PROSULFOCARB 900 EC at 5.4l/ha	PROSULFOCARB 900 EC at 8.8l/ha	Roxy 800 EC at 4l/ha	Roxy 800 EC at 5l/ha	Roxy 800 EC at 8l/ha	Roxy 800 EC at 10l/ha	Herold at 0.6l/ha	Herold at 1.2l/ha

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		Assessm. type (unit)	H at appl.	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n			
MED	HORV W	Yield (t/ha)	11-14	4.8	1.6-7.2	6	103.5	103.5- 103.5	1	101.4	91.6- 107.9	5	98.8	98.8- 98.8	1	97.0	78.8- 108.3	5	111.4	111.4- 111.4	1	100.4	90.4- 109	3	90.9	90.9- 90.9	1	98.3	81.1- 113.2	3	98.8	98.7- 99	2	98.4	95- 101.8	2

**Table 0-97: Impact on yield compared to the UTC (set at 100%) on winter triticales under weed free conditions – post-em – Mediterranean EPPO zone**

KCP	Crop Code	Variety	Crop BBCH at appl.	UNTREATED			PROSULFOCARB 900 EC 900 g/L 4.4l/ha 3960 g a.s./ha			PROSULFOCARB 900 EC 900 g/L 8.8l/ha 7920 g a.s./ha			Roxy 800 EC 800 G/L 5l/ha 4000 g a.s./ha			Roxy 800 EC 800 G/L 10l/ha 8000 g a.s./ha		
				% control		SNK												
KCP 6.4-96	TTLWI	Fido	14	3.83	100.0	-	104.2	-	CS	105.4	-	CS	97.5	-		98.6	-	
KCP 6.4-97	TTLWI	Vivacio	14	7.9	100.0	-	103.8	-	CS	94.9	-	CS	99.4	-		97.5	-	

EPPO zone	Crop code	Assessm. type (unit)	Crop BBCH at appl.	Absolut value in the untreated control			PROSULFOCARB 900 EC at 4.4l/ha			PROSULFOCARB 900 EC at 8.8l/ha			Roxy 800 EC at 5l/ha			Roxy 800 EC at 10l/ha		
				Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
MED	TTLWI	Yield (t/ha)	14-14	5.9	3.8-7.9	2	104.0	103.8-104.2	2	100.1	94.9-105.4	2	98.5	97.5-99.4	2	98.1	97.5-98.6	2

## Potatoes

In all the selectivity trials on potatoes, GLOB1913H (also identified as Prosulfocarb 900 EC or Roxy 900 EC) was applied once according to the GAP table (pre-emergence, BBCH 0-09) at the rate of 4.4 L/ha (N) and 8.8 L/ha (2N), respectively representing the maximum target rate and the double target rate of application.

Commercial standards were as well applied at N and 2N as comparison. Details of the reference standards used in trials and application rates are presented in Table 0-4. Moreover, the standards are all products based on 800 g/L of prosulfocarb, applied at virtually the same amount of active substance per hectare.

In line with EPPO PP1/135, plots were harvested individually to give results in number of tubers and kg per plot. Total yield was expressed as tonnes/hectare.

The percentage relative to the control is shown in the tables below and the absolute values assessed are reported for the untreated check.

Furthermore, a comparison of the phytotoxicity encountered in the weed free trials and the yield from those trials where a significant phytotoxicity was observed is presented below (only one trial in the South-East EPPO zone).

Statistical analysis was made as letter test based on Student-Newman-Keuls ( $P = 0.05$ ). Where no letter is presented (absent or '-') no difference was registered among treatments. Letters accompanying yield absolute values correspond to the post-hoc test result for the UTC value set at 100%.

Details on trial methodology for selectivity trials is summarized in Table 0-13, Table 0-14, Table 0-15 and Table 0-16, split for each EPPO climatic zone.

### Maritime EPPO Zone

In the Maritime EPPO Zone, no phytotoxicity symptom caused by GLOB1913H at the maximum proposed dose rate of 4.4 L/ha neither at the double rate was recorded in all trials. Therefore, no table is presented for the relationship between phytotoxicity and yield.

A total of 5 trials were carried out during 2020 in Czech Republic, Germany and the Netherlands. Yield data are summarized in Table 0-98.

In 5 trials in the Maritime EPPO zone, GLOB1913H at the maximum proposed label rate of 4.4 L/ha had no significant negative effect on the yield of potatoes in the absence of weeds.

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### Detailed yield data - Maritime EPPO Zone

**Table 0-98: Impact on yield compared to the UTC (set at 100%) on potatoes under weed free conditions – Maritime EPPO zone**

KCP	Crop Variety	Rating Date	Rating Type	UNTREATED	GLOB1913H	Boxer/Fidox	GLOB1913H	Boxer/Fidox
				absolute value %control SNK	900 g/L EC 4.4 L/ha 3960 g a.s./ha	800 g/L EC 5 L/ha 4000 g a.s./ha	900 g/L EC 8.8 L/ha 7920 g a.s./ha	800 g/L EC 10 L/ha 8000 g a.s./ha
KCP 6.4-194	Dali	07/10/20	YIELD	45.88 100 ab	102.56 ab	97.18 ab Boxer	105.08 ab	82.63 b Boxer
KCP 6.4-195	Antonia	17/09/20	YIELD	42 100 -	100.54 -	100.16 - Boxer	104.43 -	101.81 - Boxer
KCP 6.4-196	Kuras	19/10/20	YIELD	13.85 100 -	95.81 -	95.46 - Boxer	94.32 -	93.64 - Boxer
KCP 6.4-197	Goldmarie	21/10/20	YIELD	29.71 100 -	102.54 -	103.12 - Boxer	101.63 -	101.48 - Boxer
KCP 6.4-198	Artus	10/11/20	YIELD	55.66 100 ab	106.09 a	101.77 ab Fidox at 4L/ha	101.26 ab	97.27 b Fidox at 8L/ha

EPPO zone	Nb. trials	Grouping	Assessment type (unit)	Absolut value in the untreated control			Yield at 1N as % of untreated						Yield at 2N rate as % of untreated					
							GLOB1913H at 4.4 L/ha			Boxer/Fidox at 5 L/ha			GLOB1913H at 8.8 L/ha			Boxer/Fidox at 10 L/ha		
				Mean	Min &	Max	Mean	Min &	Max	Mean	Min &	Max	Mean	Min &	Max	Mean	Min &	Max
MAR	5	All	Yield (t/ha)	37.4	13.9	55.7	101.5	95.8	106.1	99.5	95.5	103.1	101.3	94.3	105.1	95.4	82.6	101.8

### **North-East EPPO Zone**

In the North-East EPPO Zone, no phytotoxicity symptom caused by GLOB1913H at the maximum proposed dose rate of 4.4 L/ha neither at the double rate was recorded in all trials. Therefore, no table is presented for the relationship between phytotoxicity and yield.

A total of 2 trials were carried out during 2020 in Poland. In support of authorization in the Central zone, the results of all trials conducted in the North-East climatic zone were combined with the results of the German and Czech trials (4 trials) since these are neighbouring countries and considered as valid to Poland, the only MS in the Central zone belonging to the North-East climatic zone. The combined results from 6 trials are thus shown in the table below. The trials highlighted in yellow are those conducted in the North-East EPPO Zone, while blue ones are those conducted in DE and CZ . Yield data are summarized in Table 0-99.

In all 6 trials, GLOB1913H at the maximum proposed label rate of 4.4 L/ha had no significant negative effect on the yield of potatoes in the absence of weeds.

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### Detailed yield data - North-East EPPO Zone

**Table 0-99: Impact on yield compared to the UTC (set at 100%) on potatoes under weed free conditions – North-East EPPO zone**

KCP	Crop Variety	Rating Date	Rating Type	UNTREATED			GLOB1913H			Boxer			GLOB1913H			Boxer		
				absolute value	%control	SNK	900 g/L EC	4.4 L/ha	3960 g a.s./ha	800 g/L EC	5 L/ha	4000 g a.s./ha	900 g/L EC	8.8 L/ha	7920 g a.s./ha	800 g/L EC	10 L/ha	8000 g a.s./ha
KCP 6.4-194	Dali	07/10/20	YIELD	45.88	100	ab	102.56	ab		97.18	ab	Boxer	105.08	ab		82.63	b	Boxer
KCP 6.4-195	Antonia	17/09/20	YIELD	42	100	-	100.54	-		100.16	-	Boxer	104.43	-		101.81	-	Boxer
KCP 6.4-196	Kuras	19/10/20	YIELD	13.85	100	-	95.81	-		95.46	-	Boxer	94.32	-		93.64	-	Boxer
KCP 6.4-197	Goldmarie	21/10/20	YIELD	29.71	100	-	102.54	-		103.12	-	Boxer	101.63	-		101.48	-	Boxer
KCP 6.4-192	Boryna	08/10/20	YIELD	39.19	100	-	94.72	-		94.73	-	Boxer 800 EC	100.53	-		98.38	-	Boxer
KCP 6.4-193	Lady Claire	15/09/20	YIELD	33.76	100	-	99.13	-		96.04	-	Boxer 800 EC	109.61	-		106.82	-	Boxer

EPPO zone	Nb. trials	Grouping	Assessment type (unit)	Absolut value in the untreated control			Yield at 1N as % of untreated						Yield at 2N rate as % of untreated					
							GLOB1913H at 4.4 L/ha			Boxer at 5 L/ha			GLOB1913H at 8.8 L/ha			Boxer at 10 L/ha		
				Mean	Min &	Max	Mean	Min &	Max	Mean	Min &	Max	Mean	Min &	Max	Mean	Min &	Max
NE	2	All	Yield (t/ha)	36.5	33.8	39.2	96.9	94.7	99.1	95.4	94.7	96.0	105.1	100.5	109.6	102.6	98.4	106.8

Means valid for Poland (when available, CZ and DE trials included in mean calulation)

NE (+CZ,DE)	6	All	Yield (t/ha)	34.1	13.9	45.9	99.2	94.7	102.6	97.8	94.7	103.1	102.6	94.3	109.6	97.5	82.6	106.8
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### South-East EPPO Zone

In the table below, the phytotoxic effects observed in weed free trials are compared to the effects on the yield of those trials (only for trials where a significant phytotoxicity was observed). In only one trial some reduction was observed at the double rate (variety Red Scarlett). Same effect was observed for the reference product and likely remain in the range of natural variation, since it was not statistically significant.

**Table 0-100: Relationship between phytotoxicity and yield on potatoes – South-East EPPO zone**

Test report	Variety	Maximum phyto. at N rate (%)		Maximum phyto. at 2N rate (%)		Yield in the untreated control Absolute figures (t/ha)	Yield at 1N as % of untreated		Yield at 2N rate as % of untreated	
		GLOB1913H	Ref*	GLOB1913H	Ref*		GLOB1913H	Ref*	GLOB1913H	Ref*
KCP 6.4-199	Red Scarlett	3	3	6	6	22.55	105.31	100.12	94.82	92.68

\*In trial KCP 6.4-199, the reference product Fidox (prosulfocarb 800g/L) was applied at 5 & 10 L/ha

Yield data are summarized in Table 0-101. In 3 trials in the South-East EPPO zone, GLOB1913H at the maximum proposed label rate of 4.4 L/ha had no significant negative effect on the yield of potatoes in the absence of weeds.

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### Detailed yield data - South-East EPPO Zone

**Table 0-101: Impact on yield compared to the UTC (set at 100%) on potatoes under weed free conditions – South-East EPPO zone**

KCP	Crop Variety	Rating Date	Rating Type	UNTREATED			GLOB1913H 900 g/L EC 4.4 L/ha 3960 g a.s./ha	Fidox 800 g/L EC 5 L/ha 4000 g a.s./ha	GLOB1913H 900 g/L EC 8.8 L/ha 7920 g a.s./ha	Fidox 800 g/L EC 10 L/ha 8000 g a.s./ha
				absolute value	%control	SNK				
KCP 6.4-199	Red Scarlett	16/08/20	YIELD	22.55	100	-	105.31	-	100.12	-
KCP 6.4-200	Red Scarlet	30/07/20	YIELD	39.27	100	a	85.59	ab	97.1	a
KCP 6.4-201	Desiree	07/09/20	YIELD	9.83	100	-	117.87	-	119.25	-

EPPO zone	Nb. trials	Grouping	Assessment type (unit)	Absolut value in the untreated control			Yield at 1N as % of untreated						Yield at 2N rate as % of untreated					
							GLOB1913H at 4.4 L/ha			Fidox at 5 L/ha			GLOB1913H at 8.8 L/ha			Fidox at 10 L/ha		
				Mean	Min &	Max	Mean	Min &	Max	Mean	Min &	Max	Mean	Min &	Max	Mean	Min &	Max
SE	3	All	Yield (t/ha)	23.9	9.8	39.3	102.9	85.6	117.9	105.5	97.1	119.3	102.3	93.4	118.7	95.9	80.9	114.2

### **Mediterranean EPPO Zone**

In the Mediterranean EPPO Zone, no phytotoxicity symptom caused by GLOB1913H at the maximum proposed dose rate of 4.4 L/ha neither at the double rate was recorded in all trials. Therefore, no table is presented for the relationship between phytotoxicity and yield.

A total of 2 trials were carried out during 2021 in Italy. Yield data are summarized in Table 0-102.

In 2 trials in the Mediterranean EPPO zone, GLOB1913H at the maximum proposed label rate of 4.4 L/ha had no significant negative effect on the yield of potatoes in the absence of weeds. Some reduction on yield was observed for all treatments (including the reference product) and likely remain in the range of natural variation, since it was not statistically significant, neither increased at the double rate.

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### Detailed yield data - Mediterranean EPPO Zone

**Table 0-102: Impact on yield compared to the UTC (set at 100%) on potatoes under weed free conditions – Mediterranean EPPO zone**

KCP	Crop Variety	Rating Date	Rating Type	UNTREATED	GLOB1913H 900 g/L EC 4.4 L/ha 3960 g a.s./ha	Boxer/Roxy/Fidox 800 g/L EC 5 L/ha 4000 g a.s./ha	GLOB1913H 900 g/L EC 8.8 L/ha 7920 g a.s./ha	Boxer/Fidox 800 g/L EC 10 L/ha 8000 g a.s./ha
				absolute value      %control      SNK				
KCP 6.4-202	Agria	10/09/2021	YIELD	18.75      100	93.88 -	90.11 -      Roxy 800 EC	92.85 -	90.74 -      Roxy 800 EC
KCP 6.4-203	Monalisa	27/08/2021	YIELD	15.88      100	94.3 -	99.8 -      Roxy 800 EC	93.3 -	99.6 -      Roxy 800 EC

EPPO zone	Nb. trials	Grouping	Assessment type (unit)	Absolut value in the untreated control			Yield at 1N as % of untreated						Yield at 2N rate as % of untreated					
							GLOB1913H at 4.4 L/ha			Boxer/Roxy/Defi /Filon/Fidox at 5 L/ha			GLOB1913H at 8.8 L/ha			Boxer/Fidox at 10 L/ha		
				Mean	Min &	Max	Mean	Min &	Max	Mean	Min &	Max	Mean	Min &	Max	Mean	Min &	Max
MED	2	All	Yield (t/ha)	17.3	15.9	18.8	94.1	93.9	94.3	95.0	90.1	99.8	93.1	92.9	93.3	95.1	90.7	99.6

Comments of zRMS:	<p><b>Cereals Use</b></p> <p><b>Maritime</b></p> <p>Pre-emergence application</p> <p>Tables 3.4-51-52 shows the yield relative to the untreated control in the trials where phytotoxicity was observed. There were generally no large reductions in the yield in these trials, with the exception being 87.6% yield at N in trial in rye (KCP 6.4-07), variety Dankowskie rubin. The yield following treatment with the reference product was 87.7%. Overall, whilst there were some phytotoxicity symptoms, the majority were transient and reduced or disappeared over time and they did not appear to have a negative impact on the yield. Additionally, comparable symptoms were observed following treatment with the reference products.</p> <p>Post-emergence application</p> <p>Tables 3.4-73-75 show the yield relative to the untreated control in the trials where phytotoxicity was observed. Overall, in these cases, there were increasing effects on yield with the exception being 96.4% yield at N in a trial in barley, though</p>
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decreasing effects were not significant. Overall, whilst there were some phytotoxicity symptoms, the majority were transient and reduced or disappeared over time and they did not appear to have a negative impact on the yield. Additionally, comparable symptoms were observed following treatment with the reference products.

#### **North-East zone**

##### **Pre-emergence application**

Tables 3.4-57-59 shows the yield relative to the untreated control in the trials where phytotoxicity was observed. There were generally no large reductions in the yield in these trials, with the exception being 80.7% yield at N in trial in rye (KCP 6.4-52), variety Elvi. The yield following treatment with the reference product was 91.7%. Overall, whilst there were some phytotoxicity symptoms, the majority were transient and reduced or disappeared over time and they did not appear to have a negative impact on the yield. Additionally, comparable symptoms were observed following treatment with the reference products.

##### **Post-emergence application**

Tables 3.4-57-59 shows the yield relative to the untreated control in the trials where phytotoxicity was observed. There were generally no large reductions in the yield in these trials, with the exception being 88.6% yield at N in trial in rye (KCP 6.4-107), variety Elvi. The yield following treatment with the reference product was 97.5%. Overall, whilst there were some phytotoxicity symptoms, the majority were transient and reduced or disappeared over time and they did not appear to have a negative impact on the yield. Additionally, comparable symptoms were observed following treatment with the reference products.

#### **Potatoes**

Regardless of the EPPO zone, there were no statistically significant differences when comparing the yield in the untreated control to the yield following treatment with either GLOB1913H or the reference products. The overall means indicated comparable yields regardless of the treatment applied.

### 3.3.3 Effects on the quality of plants or plant products (KCP 6.4.3)

The effect on the quality was determined in all the crop safety trials presented in section 3.4 in accordance with the EPPO standard PP 1/135 (4) requirements.

Quality was evaluated in specific selectivity trials (weed free) carried out on cereals with pre-emergence application (20 trials in the Maritime, 20 in the North-East, 2 in the South-east and 22 in the Mediterranean EPPO zones), as well as on cereals with post-emergence application (17 trials in the Maritime, 11 in the North-East, 2 in the South-east and 26 in the Mediterranean EPPO zones), and on 12 selectivity trials carried out on potatoes (5 trials in the Maritime, 2 in the North-East, 3 in the South-east and 2 in the Mediterranean EPPO zones). Trials on cereals were carried out between 2018 and 2021. Those on potatoes between 2020 and 2021.

Results from trials conducted in Poland were combined with the results of the German and Czech trials since these are neighbouring countries and considered as valid to Poland. The combined results are thus shown below under the North-East EPPO zone section. The trials highlighted in yellow are those conducted in the North-East EPPO Zone (Poland), while blue ones are those conducted in DE and CZ. Trials highlighted in dark blue were conducted in the maritime part of Poland. Trials highlighted in green were conducted in other Maritime zone countries.

#### Cereals - Pre-emergence application

In all the selectivity trials GLOB1913H was applied once according to the GAP table (before crop emergence) at the rates of 3.5 - 4.4 L/ha (N) and 7 – 8.8 L/ha (2N), respectively representing the target rates and the double target rates of application. Durum wheat in Maritime zone represents an exception as the rate of 2.6 L/ha was the maximum tested, following current authorized amounts of prosulfocarb for the reference products in the country (i.e. France).

Commercial standards, were as well applied at authorized rate N and 2N as comparison. Details of the reference standards used in trials and application rates are presented in Table 0-4.

Plots were harvested individually to give results in HLW (kg per 100 L) and seeds collected to assess the weight of 1000 kernels (TKW). The percentage relative to the control is shown in the tables below and the absolute values assessed are reported for the untreated check.

Statistical analysis was made as letter test based on Student-Newman-Keuls ( $P = 0.05$ ). Where no letter is presented no difference was registered among treatments. Letters accompanying HLW or TKW absolute values correspond to the post-hoc test result for the UTC value set at 100%. Where no letter is presented no difference was registered among treatments.

Details on trial methodology for selectivity trials on cereals with pre-emergence application are summarized in Table 0-5, Table 0-6, Table 0-7, Table 0-8, split for each EPPO climatic zone.

specific selectivity trials evaluated the adverse effects of cereals with pre-emergence application. Trials on cereals were carried out between 2018 and 2021 on a wide range of commercially grown varieties.

All the studies revealed no negative impact on the quality of winter cereals.

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## Maritime EPPO Zone

### Detailed quality data - Maritime EPPO Zone

**Table 0-103: Impact on the quality (HLW) compared to the UTC (set at 100%) on winter soft wheat under weed free conditions – pre-em – Maritime EPPO zone**

KCP	Crop Code	Variety	UNTREATED		PROSULFOCARB 900 EC		PROSULFOCARB 900 EC		Boxer 800 EC		Boxer 800 EC		Boxer 800 EC		Boxer 800 EC		Boxer 800 EC		Boxer 800 EC		
			pl/m2	% control	SNK	900 g/L	900 g/L	800 G/L	800 G/L	800 G/L	800 G/L	800 G/L	800 G/L	800 G/L	800 G/L	800 G/L	800 G/L	800 G/L			
						4.4l/ha	8.8l/ha	3l/ha	4l/ha	5l/ha	6l/ha	8l/ha	10l/ha								
					3960 g a.s./ha		7920 g a.s./ha		2400 g a.s./ha		3200 g a.s./ha		4000 g a.s./ha		4800 g a.s./ha		6400 g a.s./ha		8000 g a.s./ha		
KCP 6.4-02	TRZAW	Graindor	76.85	100.0	ab	100.6	a	CS	100.0	ab	CS			99.7	ab	Defi			99.5	ab	Defi
KCP 6.4-09	TRZAW	KWS Talent	52.53	100.0	-	100.2	-	CS	97.8	-	CS		104.6	-				102.5	-		
KCP 6.4-08	TRZAW	Bohemia	81	100.0	-	98.5	-	CS	96.9	-	CS		98.2	-				98.2	-		
KCP 6.4-10	TRZAW	Viriato	47.59	100.0	a	99.0	a	CS	98.5	a	CS	100.6	a				100.7	a			

EPPO zone	Crop code	Assessment type (unit)	Absolut value in the untreated control			PROSULFOCARB 900 EC at 4.4l/ha			PROSULFOCARB 900 EC at 8.8l/ha			Boxer 800 EC at 3l/ha			Boxer 800 EC at 4l/ha			Boxer at 5l/ha			Boxer 800 EC at 6l/ha			Boxer 800 EC at 8l/ha			Boxer at 10l/ha		
			Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
EPOMAR	TRZAW	HLW (kg/100L)	64.5	47.6-81	4	99.6	98.5-100.6	4	98.3	96.9-100	4	100.6	100.6-100.6	1	101.4	98.2-104.6	2	99.7	99.7-99.7	1	100.7	100.7-100.7	1	100.3	98.2-102.5	2	99.5	99.5-99.5	1

**Table 0-104: Impact on the quality (TKW) compared to the UTC (set at 100%) from GLOB1913H on winter soft wheat under weed free conditions – pre-em – Maritime EPPO zone**

KCP	Crop Code	Variety	UNTREATED			PROSULFOCARB 900 EC		PROSULFOCARB 900 EC		Boxer 800 G/L		Boxer 800 G/L	
			pl/m2	% control	SNK	900 g/L	3.5l/ha	900 g/L	7l/ha	800 G/L	5l/ha	800 G/L	10l/ha
						3150 g a.s./ha		6300 g a.s./ha		4000 g a.s./ha		8000 g a.s./ha	
KCP 6.4-16	TRZAW	Skyscraper	36.91	100.0	-	100.0	-	103.9	-	101.7	-	101.5	-
KCP 6.4-18	TRZAW	Hereford	28.59	100.0	-	104.6	-	107.9	-	107.9	-	109.2	-

EPPO zone	Crop code	Assessment type (unit)	Absolut value in the untreated control			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 7l/ha			Boxer at 5l/ha			Boxer at 10l/ha		
			Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n

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EPOMAR	TRZAW	TKW (g)	32.8	28.6-36.9	2	102.3	100-104.6	2	105.9	103.9-107.9	2	104.8	101.7-107.9	2	105.3	101.5-109.2	2
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**Table 0-105: Impact on the quality (HLW) compared to the UTC (set at 100%) on winter durum wheat under weed free conditions – pre-em – Maritime EPPO zone**

KCP	Crop Code	Variety	UNTREATED		PROSULFOCARB 900 EC		PROSULFOCARB 900 EC		Defi		Defi	
			pl/m2	% control	SNK	900 g/L 2.6-2.7l/ha 2340-2430 g a.s./ha	900 g/L 5.4l/ha 4860 g a.s./ha	900 g/L 3l/ha 2400 g a.s./ha	800 G/L 3l/ha 2400 g a.s./ha	800 G/L 6l/ha 4800 g a.s./ha		
KCP 6.4-12	TRZDW	Anvergur	85.72	100.0 -		98.9 - CS	99.1 - CS	99.3 -			94.5 -	

EPPO zone	Crop code	Assessment type (unit)	Absolut value in the untreated control			PROSULFOCARB 900 EC at 2.6-2.7l/ha			PROSULFOCARB 900 EC at 5.4l/ha			Defi at 3l/ha			Defi at 6l/ha		
			Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
EPOMAR	TRZDW	HLW (kg/100L)	85.7	85.7-85.7	1	98.9	98.9-98.9	1	99.1	99.1-99.1	1	99.3	99.3-99.3	1	94.5	94.5-94.5	1

**Table 0-106: Impact on the quality (TKW) compared to the UTC (set at 100%) from GLOB1913H on winter durum wheat under weed free conditions – pre-em – Maritime EPPO zone**

KCP	Crop Code	Variety	UNTREATED		PROSULFOCARB 900 EC		PROSULFOCARB 900 EC		Defi		
					900 g/L		900 g/L		800 G/L		800 G/L
				%	2.6-2.7l/ha		5.4l/ha		5l/ha		10l/ha
			pl/m2	SNK	control	2340-2430 g a.s./ha	4860 g a.s./ha	4000 g a.s./ha	8000 g a.s./ha		
KCP 6.4-13	TRZDW	Envergur	40.98	100.0 -	100.8 -		94.8 -		104.7 -		103.2 -
KCP 6.4-14	TRZDW	RGT VOILUR	37.87	100.0 -	97.8 -		100.0 -		100.6 -		99.1 -

EPPO zone	Crop code	Assessment type (unit)	Absolut value in the untreated control			PROSULFOCARB 900 EC at 2.6-2.7l/ha			PROSULFOCARB 900 EC at 5.4l/ha			Defi at 5l/ha			Defi at 10l/ha		
			Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
EPOMAR	TRZDW	TKW (g)	39.4	37.9-41	2	99.3	97.8-100.8	2	97.4	94.8-100	2	102.7	100.6-104.7	2	101.1	99.1-103.2	2

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**Table 0-107: Impact on the quality (HLW) compared to the UTC (set at 100%) on winter barley under weed free conditions – pre-em – Maritime EPPO zone**

KCP	Crop Code	Variety	UNTREATED			PROSULFOCARB 900 EC			PROSULFOCARB 900 EC			Boxer 800 EC			Boxer 800 EC			Boxer 800 EC		
			pl/m2	% control	SNK	900 g/L 4.4l/ha 3960 g a.s./ha	900 g/L 8.8l/ha 7920 g a.s./ha		900 g/L 8.8l/ha 7920 g a.s./ha			800 G/L 4l/ha 3200 g a.s./ha	800 GA/L 5l/ha 4000 g a.s./ha		800 G/L 8l/ha 6400 g a.s./ha			800 GA/L 10l/ha 8000 g a.s./ha		
KCP 6.4-04	HORVW	KWS Kosmos	40.05	100.0 -		104.3 -	CS		102.4 -	CS		101.9 -	Fidox		101.6 -	Fidox				
KCP 6.4-01	HORVW	KWS Meridian	59.12	100.0 -		99.4 -	CS		100.2 -	CS			98.9 -					101.6 -		
KCP 6.4-03	HORVW	Kosmos	64.35	100.0 -		102.5 -	CS		102.3 -	CS		103.0 -			103.0 -					

EPPO zone	Crop code	Assessment type (unit)	Absolut value in the untreated control			PROSULFOCARB 900 EC at 4.4l/ha			PROSULFOCARB 900 EC at 8.8l/ha			Boxer 800 EC at 4l/ha			Boxer at 5l/ha			Boxer 800 EC at 8l/ha			Boxer at 10l/ha		
			Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
EPOMAR	HORVW	HLW (kg/100L)	54.5	40.1-64.4	3	102.0	99.4-104.3	3	101.6	100.2-102.4	3	102.5	101.9-103	2	98.9	98.9-98.9	1	102.3	101.6-103	2	101.6	101.6-101.6	1

**Table 0-108: Impact on the quality (TKW) compared to the UTC (set at 100%) on winter barley under weed free conditions – pre-em – Maritime EPPO zone**

KCP	Crop Code	Variety	UNTREATED			PROSULFOCARB 900 EC			PROSULFOCARB 900 EC			PROSULFOCARB 900 EC			PROSULFOCARB 900 EC			Boxer 800 EC			Boxer 800 EC			Boxer 800 EC		
			pl/m2	% control	SNK	900 g/L 3.5l/ha 3150 g a.s./ha	900 g/L 4.4l/ha 3960 g a.s./ha		900 g/L 7l/ha 6300 g a.s./ha			900 g/L 8.8l/ha 7920 g a.s./ha			900 g/L 8.8l/ha 7920 g a.s./ha			800 G/L 4l/ha 3200 g a.s./ha	800 GA/L 5l/ha 4000 g a.s./ha		800 G/L 8l/ha 6400 g a.s./ha			800 GA/L 10l/ha 8000 g a.s./ha		
KCP 6.4-15	HORVW	KWS Meridian	43.48	100.0		99.3 -			98.9 -									97.2 -								100.1 -
KCP 6.4-03	HORVW	Kosmos	44.36	100.0 b			109.1 a	CS				108.5 a	CS		108.5 a						109.2 a					

EPPO zone	Crop code	Assessment type (unit)	Absolut value in the untreated control			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 4.4l/ha			PROSULFOCARB 900 EC at 7l/ha			PROSULFOCARB 900 EC at 8.8l/ha			Boxer 800 EC at 4l/ha			Boxer at 5l/ha			Boxer 800 EC at 8l/ha			Boxer at 10l/ha		
			Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
EPOMAR	HORVW	TKW (g)	43.9	43.5-44.4	2	99.3	99.3-99.3	1	109.1	109.1-109.1	1	98.9	98.9-98.9	1	108.5	108.5-108.5	1	108.5	108.5-108.5	1	97.2	97.2-97.2	1	109.2	109.2-109.2	1	100.1	100.1-100.1	1

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**Table 0-109: Impact on the quality (HLW) compared to the UTC (set at 100%) on winter rye under weed free conditions – pre-em – Maritime EPPO zone**

KCP	Crop Code	Variety	UNTREATED		PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	Boxer 800 EC	Boxer	Boxer 800 EC	Boxer
					900 g/L	900 g/L	900 g/L	900 g/L	800 G/L	800 G/L	800 G/L	800 G/L
					3.5l/ha	4.4l/ha	7l/ha	8.8l/ha	4l/ha	5l/ha	8l/ha	10l/ha
			pl/m2	% SNK control	3150 g a.s./ha	3960 g a.s./ha	6300 g a.s./ha	7920 g a.s./ha	3200 g a.s./ha	4000 g a.s./ha	6400 g a.s./ha	8000 g a.s./ha
KCP 6.4-07	SECCW	Dankowskie rubin	76.05	100.0 -		99.3 - CS		99.8 - CS		99.6 - Defi		99.7 - Defi
KCP 6.4-19	SECCW	Herakles	77.52	100.0 b	100.1 b		100.9 ab			100.4 ab		101.0 ab
KCP 6.4-05	SECCW	INSPECTOR	67.53	100.0 b		100.8 b CS		100.3 b CS	100.3 b		100.9 b	
KCP 6.4-06	SECCW	HelTop	74.55	100.0 a		99.8 a CS		98.9 ab CS		99.5 a		99.0 ab

EPPO zone	Crop code	Assessment type (unit)	Absolute value in the untreated control			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 4.4l/ha			PROSULFOCARB 900 EC at 7l/ha			PROSULFOCARB 900 EC at 8.8l/ha			Boxer 800 EC at 4l/ha			Boxer at 5l/ha			Boxer 800 EC at 8l/ha			Boxer at 10l/ha		
			Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
EPOMAR	SECCW	HLW (kg/100L)	73.9	67.5-77.5	4	100.1	100.1-100.1	1	100.0	99.3-100.8	3	100.9	100.9-100.9	1	99.7	98.9-100.3	3	100.3	100.3-100.3	1	99.8	99.5-100.4	3	100.9	100.9-100.9	1	99.9	99-101	3

**Table 0-110: Impact on the quality (TKW) compared to the UTC (set at 100%) on winter rye under weed free conditions – pre-em – Maritime EPPO zone**

KCP	Crop Code	Variety	UNTREATED			PROSULFOCARB 900 EC			PROSULFOCARB 900 EC			Boxer			Boxer		
			pl/m2	%	SNK	900 g/L	900 g/L	900 g/L	900 g/L	900 g/L	900 g/L	900 g/L	900 g/L	900 g/L	900 g/L	900 g/L	900 g/L
						3.5l/ha	7l/ha	7l/ha	7l/ha	7l/ha	7l/ha	7l/ha	7l/ha	7l/ha	7l/ha	7l/ha	7l/ha
						3150 g a.s./ha	6300 g a.s./ha	6300 g a.s./ha	6300 g a.s./ha	6300 g a.s./ha	6300 g a.s./ha	6300 g a.s./ha	6300 g a.s./ha	6300 g a.s./ha	6300 g a.s./ha	6300 g a.s./ha	6300 g a.s./ha
KCP 6.4-19	SECCW	Herakles	31.97	100.0	-	96.5	-		107.2	-		101.1	-		99.1	-	

EPPO zone	Crop code	Assessment type (unit)	Absolute value in the untreated control			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 7l/ha			Boxer at 5l/ha			Boxer at 10l/ha		
			Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
EPOMAR	SECCW	TKW (g)	32.0	32-32	1	96.5	96.5-96.5	1	107.2	107.2-107.2	1	101.1	101.1-101.1	1	99.1	99.1-99.1	1

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**Table 0-111: Impact on the quality (HLW) compared to the UTC (set at 100%) on winter triticale under weed free conditions – pre-em – Maritime EPPO zone**

KCP	Crop Code	Variety	UNTREATED			PROSULFOCARB 900 EC			PROSULFOCARB 900 EC			Boxer			Boxer			Jura		
			pl/m2	%	SNK	900 g/L	4.4l/ha	3960 g a.s./ha	900 g/L	8.8l/ha	7920 g a.s./ha	800 GA/L	5l/ha	4000 g a.s./ha	800 GA/L	10l/ha	8000 g a.s./ha	681 g/L	4l/ha	2724 g a.s./ha
				control																
KCP 6.4-11	TTLWI	ELICSIR	79.28	100.0 -																
KCP 6.4-68	TTLWI	Barolo	73.23	100.0 -																

EPPO zone	Crop code	Assessment type (unit)	Absolut value in the untreated control			PROSULFOCARB 900 EC at 4.4l/ha			PROSULFOCARB 900 EC at 8.8l/ha			Boxer at 5l/ha			Boxer at 10l/ha			Jura at 4l/ha			Jura at 8l/ha		
			Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
EPOMAR	TTLWI	HLW (kg/100L)	76.3	73.2-79.3	2	99.6	98.8-100.5	2	99.9	99.8-100.1	2	100.2	100.2-100.2	1	99.7	99.7-99.7	1	102.3	102.3-102.3	1	101.8	101.8-101.8	1

**Table 0-112: Impact on the quality (TKW) compared to the UTC (set at 100%) on winter triticale under weed free conditions – pre-em – Maritime EPPO zone**

KCP	Crop Code	Variety	UNTREATED			PROSULFOCARB 900 EC			PROSULFOCARB 900 EC			Boxer			Boxer		
			pl/m2	%	SNK	900 g/L	3.5l/ha	3150 g a.s./ha	900 g/L	7l/ha	6300 g a.s./ha	800 GA/L	5l/ha	4000 g a.s./ha	800 GA/L	10l/ha	8000 g a.s./ha
				control													
KCP 6.4-17	TTLWI	Neogen	46.61	100.0 -													

EPPO zone	Crop code	Assessment type (unit)	Absolut value in the untreated control			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 7l/ha			Boxer at 5l/ha			Boxer at 10l/ha		
			Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
EPOMAR	TTLWI	TKW (g)	46.6	46.6-46.6	1	99.4	99.4-99.4	1	102.2	102.2-102.2	1	99.9	99.9-99.9	1	99.3	99.3-99.3	1

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## North-East EPPO Zone

### Detailed quality data - North-East EPPO Zone

**Table 0-113: Impact on the quality (HLW) compared to the UTC (set at 100%) on winter soft wheat under weed free conditions – pre-em – North-East EPPO zone**

KCP	Crop Code	Variety	UNTREATED		PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	Boxer 800 EC	Boxer 800 EC
			% SNK		900 g/L 3.5l/ha 3150 g a.s./ha	900 g/L 4.4l/ha 3960 g a.s./ha	900 g/L 7l/ha 6300 g a.s./ha	900 g/L 8.8l/ha 7920 g a.s./ha	800 G/L 3l/ha 2400 g a.s./ha	800 G/L 6l/ha 4800 g a.s./ha
KCP 6.4-42	TRZAW	KEPLER	67.85	100.0 -		100.9 -	CS	100.2 -	CS	98.9 -
KCP 6.4-48	TRZAW	KEPLER	75.83	100.0 -		100.2 -	CS	98.9 -	CS	100.8 -
KCP 6.4-51	TRZAW	Kallas	82.5	100.0 -	98.8 -		99.3 -		99.4 -	99.7 -

EPPO zone	Crop code	Assessment type (unit)	Absolut value in the untreated control			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 4.4l/ha			PROSULFOCARB 900 EC at 7l/ha			PROSULFOCARB 900 EC at 8.8l/ha			Boxer 800 EC at 3l/ha			Boxer 800 EC at 6l/ha		
			Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
NE	TRZAW	HLW (kg/100L)	75.4	67.9-82.5	3	98.8	98.8-98.8	1	100.6	100.2-100.9	2	99.3	99.3-99.3	1	99.5	98.9-100.2	2	99.5	99.3-99.8	3	99.8	98.9-100.8	3

**Table 0-114: Impact on the quality (TKW) compared to the UTC (set at 100%) on winter soft wheat under weed free conditions – pre-em – North-East EPPO zone**

KCP	Crop Code	Variety	UNTREATED		PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	Boxer 800 EC	Boxer 800 EC	Boxer 800 EC	Boxer 800 EC
			% SNK		900 g/L 3.5l/ha 3150 g a.s./ha	900 g/L 7l/ha 6300 g a.s./ha	800 G/L 2.5l/ha 2000 g a.s./ha	800 G/L 3l/ha 2400 g a.s./ha	800 G/L 5l/ha 4000 g a.s./ha	800 G/L 6l/ha 4800 g a.s./ha
KCP 6.4-51	TRZAW	Kallas	29.85	100.0 -	98.9 -	98.1 -		99.9 -		98.6 -
KCP 6.4-58	TRZAW	Kena DS	39.75	100.0 -	98.2 -	99.4 -	97.8 -		98.8 -	

EPPO zone	Crop code	Assessment type (unit)	Absolut value in the untreated control			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 7l/ha			Boxer 800 EC at 2.5l/ha			Boxer 800 EC at 3l/ha			Boxer 800 EC at 5l/ha			Boxer 800 EC at 6l/ha		
			Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
NE	TRZAW	TKW (g)	34.8	29.9-39.8	2	98.6	98.2-98.9	2	98.8	98.1-99.4	2	97.8	97.8-97.8	1	99.9	99.9-99.9	1	98.8	98.8-98.8	1	98.6	98.6-98.6	1

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**Table 0-115: Impact on the quality (HLW) compared to the UTC (set at 100%) on winter barley under weed free conditions – pre-em – North-East EPPO zone**

KCP	Crop Code	Variety	UNTREATED		PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	Boxer 800 EC	Boxer 800 EC
			% control SNK		900 g/L 4.4l/ha 3960 g a.s./ha	900 g/L 8.8l/ha 7920 g a.s./ha	800 G/L 3l/ha 2400 g a.s./ha	800 G/L 6l/ha 4800 g a.s./ha
KCP 6.4-43	HORVW	KWS KOSMOS	56.25	100.0 -	95.9 - CS	98.4 - CS	99.6 -	97.6 -
KCP 6.4-44	HORVW	Veronika	56.75	100.0 a	97.9 a CS	98.7 a CS	101.0 a	98.2 a

EPPO zone	Crop code	Assessment type (unit)	Absolut value in the untreated control			PROSULFOCARB 900 EC at 4.4l/ha			PROSULFOCARB 900 EC at 8.8l/ha			Boxer 800 EC at 3l/ha			Boxer 800 EC at 6l/ha		
			Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
NE	HORVW	HLW (kg/100L)	56.5	56.3-56.8	2	96.9	95.9-97.9	2	98.5	98.4-98.7	2	100.3	99.6-101	2	97.9	97.6-98.2	2

**Table 0-116: Impact on the quality (TKW) compared to the UTC (set at 100%) on winter barley under weed free conditions – pre-em – North-East EPPO zone**

KCP	Crop Code	Variety	UNTREATED		PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	Roxy 800 EC	Roxy 800 EC
			% control SNK		900 g/L 3.5l/ha 3150 g a.s./ha	900 g/L 7l/ha 6300 g a.s./ha	800 G/L 4l/ha 3200 g a.s./ha	800 G/L 8l/ha 6400 g a.s./ha
KCP 6.4-114	HORVW	Mizzi	45.4	100.0 b	101.4 ab	99.9 b	101.6 ab	103.5 a
KCP 6.4-115	HORVW	KWS Kosmos	46.2	100.0 -	100.4 -	102.0 -	102.1 -	102.5 -
KCP 6.4-116	HORVW	Carola	46.4	100.0 -	100.5 -	100.2 -	100.8 -	99.9 -

EPPO zone	Crop code	Assessment type (unit)	Absolut value in the untreated control			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 7l/ha			Roxy 800 EC at 4l/ha			Roxy 800 EC at 8l/ha		
			Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
NE	HORVW	TKW (g)	46.0	45.4-46.4	3	100.8	100.4-101.4	3	100.7	99.9-102	3	101.5	100.8-102.1	3	102.0	99.9-103.5	3

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**Table 0-117: Impact on the quality (HLW) compared to the UTC (set at 100%) on winter rye under weed free conditions – pre-em – North-East EPPO zone**

KCP	Crop Code	Variety	UNTREATED		PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	Boxer 800 EC	Boxer 800 EC	Boxer 800 EC	Boxer 800 EC
			% SNK		900 g/L	900 g/L	900 g/L	900 g/L	800 G/L	800 G/L	800 G/L	800 G/L
			control		3.5l/ha	4.4l/ha	7l/ha	8.8l/ha	3l/ha	4l/ha	6l/ha	8l/ha
					3150 g a.s./ha	3960 g a.s./ha	6300 g a.s./ha	7920 g a.s./ha	2400 g a.s./ha	3200 g a.s./ha	4800 g a.s./ha	6400 g a.s./ha
KCP 6.4-45	SECCW	SERAFINO	71.85	100.0 -		101.6 - CS		100.1 - CS	100.8 -		101.2 -	
KCP 6.4-46	SECCW	Dankowskie Diamant	71.01	100.0 -		100.2 - CS		100.1 - CS		100.0 -		99.5 -
KCP 6.4-47	SECCW	Serafino	70.39	100.0 -		99.3 - CS		99.4 - CS		99.4 -		99.5 -
KCP 6.4-52	SECCW	Elvi	75.25	100.0 a	99.2 b		99.1 b		99.7 a		99.7 a	

EPPO zone	Crop code	Assessment type (unit)	Absolut value in the untreated control			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 4.4l/ha			PROSULFOCARB 900 EC at 7l/ha			PROSULFOCARB 900 EC at 8.8l/ha			Boxer 800 EC at 3l/ha			Boxer 800 EC at 4l/ha			Boxer 800 EC at 6l/ha			Boxer 800 EC at 8l/ha		
			Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
NE	SECCW	HLW (kg/100L)	72.1	70.4-75.3	4	99.2	99.2-99.2	1	100.4	99.3-101.6	3	99.1	99.1-99.1	1	99.9	99.4-100.1	3	100.2	99.7-100.8	2	99.7	99.4-100	2	100.4	99.7-101.2	2	99.5	99.5-99.5	2

**Table 0-118: Impact on the quality (TKW) compared to the UTC (set at 100%) on winter rye under weed free conditions – pre-em – North-East EPPO zone**

KCP	Crop Code	Variety	UNTREATED		PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	Boxer 800 EC	Boxer 800 EC	Boxer 800 EC	Boxer 800 EC
			% SNK		900 g/L	900 g/L	800 G/L	800 G/L	800 G/L	800 G/L
			control		3.5l/ha	7l/ha	2.5l/ha	3l/ha	5l/ha	6l/ha
					3150 g a.s./ha	6300 g a.s./ha	2000 g a.s./ha	2400 g a.s./ha	4000 g a.s./ha	4800 g a.s./ha
KCP 6.4-52	SECCW	Elvi	26.18	100.0 -	104.0 -	102.8 -		101.5 -		102.5 -
KCP 6.4-54	SECCW	Elias	30.3	100.0 -	103.2 -	103.4 -	102.3 -		102.1 -	

EPPO zone	Crop code	Assessment type (unit)	Absolut value in the untreated control			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 7l/ha			Boxer 800 EC at 2.5l/ha			Boxer 800 EC at 3l/ha			Boxer 800 EC at 5l/ha			Boxer 800 EC at 6l/ha		
			Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
NE	SECCW	TKW (g)	28.2	26.2-30.3	2	103.6	103.2-104	2	103.1	102.8-103.4	2	102.3	102.3-102.3	1	101.5	101.5-101.5	1	102.1	102.1-102.1	1	102.5	102.5-102.5	1

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**Table 0-119: Impact on the quality (HLW) compared to the UTC (set at 100%) on winter triticale under weed free conditions – pre-em – North-East EPPO zone**

KCP	Crop Code	Variety	UNTREATED		PROSULFOCARB 900 EC 900 g/L 4.4l/ha 3960 g a.s./ha	PROSULFOCARB 900 EC 900 g/L 8.8l/ha 7920 g a.s./ha	Boxer 800 EC 800 G/L 3l/ha 2400 g a.s./ha	Boxer 800 EC 800 G/L 6l/ha 4800 g a.s./ha
			% control	SNK				
KCP 6.4-49	TTLWI	PORTO	72.55	100.0 -	101.2 - CS	98.8 - CS	100.4 -	99.6 -
KCP 6.4-50	TTLWI	Tadeus	57.98	100.0 -	99.4 - CS	101.7 - CS	99.8 -	103.0 -

EPPO zone	Crop code	Assessment type (unit)	Absolut value in the untreated control			PROSULFOCARB 900 EC at 4.4l/ha			PROSULFOCARB 900 EC at 8.8l/ha			Boxer 800 EC at 3l/ha			Boxer 800 EC at 6l/ha		
			Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
NE	TTLWI	HLW (kg/100L)	65.3	58-72.6	2	100.3	99.4-101.2	2	100.2	98.8-101.7	2	100.1	99.8-100.4	2	101.3	99.6-103	2

**Table 0-120: Impact on the quality (TKW) compared to the UTC (set at 100%) on winter triticale under weed free conditions – pre-em – North-East EPPO zone**

KCP	Crop Code	Variety	UNTREATED		PROSULFOCARB 900 EC 900 g/L 3.5l/ha 3150 g a.s./ha	PROSULFOCARB 900 EC 900 g/L 7l/ha 6300 g a.s./ha	Boxer 800 EC 800 G/L 2.5l/ha 2000 g a.s./ha	Boxer 800 EC 800 G/L 5l/ha 4000 g a.s./ha
			% control	SNK				
KCP 6.4-53	TTLWI	Sequenz	35.63	100.0 -	99.0 -	103.3 -	100.0 -	99.2 -
KCP 6.4-57	TTLWI	Cappricia	43.57	100.0 -	98.9 -	101.2 -	101.4 -	99.0 -

EPPO zone	Crop code	Assessment type (unit)	Absolut value in the untreated control			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 7l/ha			Boxer 800 EC at 2.5l/ha			Boxer 800 EC at 5l/ha		
			Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
NE	TTLWI	TKW (g)	39.6	35.6-43.6	2	99.0	98.9-99	2	102.2	101.2-103.3	2	100.7	100-101.4	2	99.1	99-99.2	2

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## South-East EPPO Zone

### Detailed quality data - South-East EPPO Zone

**Table 0-121: Impact on the quality (HLW) compared to the UTC (set at 100%) on winter soft wheat under weed free conditions – pre-em – South-East EPPO zone**

KCP	Crop Code	Variety	UNTREATED			PROSULFOCARB 900 EC			PROSULFOCARB 900 EC			Boxer			Boxer		
			% SNK			900 g/L			900 g/L			800 G/L			800 G/L		
			control			4.4l/ha			8.8l/ha			3l/ha			6l/ha		
			3960 g a.s./ha			7920 g a.s./ha			2400 g a.s./ha			4800 g a.s./ha					
KCP 6.4-118	TRZAW	Limbergh	36.4	100.0	-	101.0	-	4L/ha	99.7	-	8 L/ha	98.6	-	3 L/ha	100.0	-	Fidox

EPPO zone	Crop code	Assessm. type (unit)	Absolut value in the untreated control			PROSULFOCARB 900 EC at 4.4l/ha			PROSULFOCARB 900 EC at 8.8l/ha			Boxer at 3l/ha			Boxer at 6l/ha		
			Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
S-E	TRZAW	TKW (g)	36.4	36.4-36.4	1	101.0	101-101	1	99.7	99.7-99.7	1	98.6	98.6-98.6	1	100.0	100-100	1

**Table 0-122: Impact on the quality (HLW) compared to the UTC (set at 100%) on winter barley under weed free conditions – pre-em – South-East EPPO zone**

KCP	Crop Code	Variety	UNTREATED			PROSULFOCARB 900 EC			PROSULFOCARB 900 EC			Boxer			Boxer		
			% SNK			900 g/L			900 g/L			800 G/L			800 G/L		
			control			4.4l/ha			8.8l/ha			3l/ha			6l/ha		
			3960 g a.s./ha			7920 g a.s./ha			2400 g a.s./ha			4800 g a.s./ha					
KCP 6.4-117	HORVW	SU Jule	46.7	100.0	-	99.2	-	4L/ha	97.6	-	8 L/ha	98.1	-	3 L/ha	97.9	-	Fidox

EPPO zone	Crop code	Assessm. type (unit)	Absolut value in the untreated control			PROSULFOCARB 900 EC at 4.4l/ha			PROSULFOCARB 900 EC at 8.8l/ha			Boxer at 3l/ha			Boxer at 6l/ha		
			Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
S-E	HORVW	TKW (g)	46.7	46.7-46.7	1	99.2	99.2-99.2	1	97.6	97.6-97.6	1	98.1	98.1-98.1	1	97.9	97.9-97.9	1

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## Mediterranean

### Detailed quality data - Mediterranean EPPO Zone

**Table 0-123: Impact on the quality (HLW) compared to the UTC (set at 100%) on winter soft wheat under weed free conditions – pre-em – Mediterranean EPPO zone**

KCP	Crop Code	Variety	UNTREATED		PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	Roxy 800 EC	Roxy 800 EC	Roxy 800 EC	Roxy 800 EC
			% SNK control		900 g/L 2.6-2.7l/ha 2340-2430 g a.s./ha	900 g/L 4.4l/ha 3960 g a.s./ha	900 g/L 8.8l/ha 7920 g a.s./ha	800 G/L 4l/ha 3200 g a.s./ha	800 G/L 5l/ha 4000 g a.s./ha	800 G/L 8l/ha 6400 g a.s./ha	800 G/L 10l/ha 8000 g a.s./ha
KCP 6.4-26	TRZAW	TOCAÑO	70.01	100.0 -		100.8 - CS	102.6 - CS		102.7 - Auros		102.3 - Auros
KCP 6.4-27	TRZAW	Solindo	67.17	100.0 -		86.2 - CS	91.0 - CS		91.1 - Defi		101.9 - Defi
KCP 6.4-28	TRZAW	Giorgione	79.53	100.0 -		99.8 - CS	100.5 - CS	100.8 -		100.1 -	

EPPO zone	Crop code	Assessm. type (unit)	Absolut value in the untreated control			PROSULFOCARB 900 EC at 2.6-2.7l/ha			PROSULFOCARB 900 EC at 4.4l/ha			PROSULFOCARB 900 EC at 8.8l/ha			Roxy 800 EC at 4l/ha			Roxy 800 EC at 5l/ha			Roxy 800 EC at 8l/ha			Roxy 800 EC at 10l/ha		
			Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
MED	TRZAW	HLW (kg/100L)	72.2	67.2-79.5	3	#DIV/0!	0-0	0	95.6	86.2-100.8	3	98.0	91-102.6	3	100.8	100.8-100.8	1	96.9	91.1-102.7	2	100.1	100.1-100.1	1	102.1	101.9-102.3	2

**Table 0-124: Impact on the quality (TKW) compared to the UTC (set at 100%) from GLOB1913H on winter soft wheat under weed free conditions – pre-em – Mediterranean EPPO zone**

KCP	Crop Code	Variety	UNTREATED		PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	Herold	Herold	Herold
			% SNK control		900 g/L 2.6-2.7l/ha 2340-2430 g a.s./ha	900 g/L 5.4l/ha 4860 g a.s./ha	600 G/L 0.3l/ha 180 g a.s./ha	600 G/L 0.6l/ha 360 g a.s./ha	600 G/L 1.2l/ha 720 g a.s./ha
KCP 6.4-36	TRZAW	Akim	35.18	100.0 -	100.4 -	95.6 -	100.8 -	100.5 -	
KCP 6.4-38	TRZAW	Falado	37.28	100.0 -	101.7 -	98.3 -		102.4 - Fuga Delta	98.0 - Fuga Delta

EPPO zone	Crop code	Assessm. type (unit)	Absolut value in the untreated control			PROSULFOCARB 900 EC at 2.6-2.7l/ha			PROSULFOCARB 900 EC at 5.4l/ha			Herold at 0.3l/ha			Herold at 0.6l/ha			Herold at 1.2l/ha		
			Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
MED	TRZAW	TKW (g)	36.2	35.2-37.3	2	101.1	100.4-101.7	2	96.9	95.6-98.3	2	100.8	100.8-100.8	1	101.4	100.5-102.4	2	98.0	98-98	1

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**Table 0-125: Impact on the quality (HLW) compared to the UTC (set at 100%) on winter durum wheat under weed free conditions – pre-em – Mediterranean EPPO zone**

KCP	Crop Code	Variety	UNTREATED		PROSULFOCARB 900 EC		PROSULFOCARB 900 EC		Roxy 800 EC		Roxy 800 EC		Roxy 800 EC		Roxy 800 EC		Defi		Defi		Herold		Herold	
			% SNK control		900 g/L 2.6-2.7l/ha 2340-2430 g a.s./ha		900 g/L 5.4l/ha 4860 g a.s./ha		800 G/L 4l/ha 3200 g a.s./ha		800 G/L 5l/ha 4000 g a.s./ha		800 G/L 8l/ha 6400 g a.s./ha		800 G/L 10l/ha 8000 g a.s./ha		800 G/L 3l/ha 2400 g a.s./ha		800 G/L 6l/ha 4800 g a.s./ha		600 G/L 0.6l/ha 360 g a.s./ha		600 G/L 1.2l/ha 720 g a.s./ha	
KCP 6.4-31	TRZDW	Euroduro	71.8	100.0 -	103.8 -	CS	100.0 -	CS		97.4 -	Auros		100.2 -	Auros										
KCP 6.4-32	TRZDW	Avispa	69.68	100.0 -	101.5 -	CS	100.5 -	CS		102.0 -	Auros		98.7 -	Auros										
KCP 6.4-33	TRZDW	Anvergur	73.89	100.0 -	99.9 -	CS	100.0 -	CS								99.8 -	97.8 -							
KCP 6.4-34	TRZDW	Levante	76.38	100.0 -	100.3 -	CS	100.6 -	CS												99.7 -	Fuga Delta	100.5 -	Fuga Delta	
KCP 6.4-35	TRZDW	Levante	81.03	100.0 ab	100.4 ab	CS	99.3 b	CS	100.8 ab			100.5 ab												
KCP 6.4-37	TRZDW	Anvergur	74.5	100.0 -	100.9 -		96.7 -													99.3 -	Fosburi	97.6 -	Fosburi	

EPPO zone	Crop code	Assessm. type (unit)	Absolut value in the untreated control			PROSULFOCARB 900 EC at 2.6-2.7l/ha			PROSULFOCARB 900 EC at 5.4l/ha			Roxy 800 EC at 4l/ha			Roxy 800 EC at 5l/ha			Roxy 800 EC at 8l/ha			Roxy 800 EC at 10l/ha			Defi at 3l/ha			Defi at 6l/ha			Herold at 0.6l/ha			Herold at 1.2l/ha		
			Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
MED	TRZDW	HLW (kg/100L)	74.6	69.7-81	6	101.1	99.9-103.8	6	99.5	96.7-100.6	6	100.8	100.8-100.8	1	99.7	97.4-102	2	100.5	100.5-100.5	1	99.5	98.7-100.2	2	99.8	99.8-99.8	1	97.8	97.8-97.8	1	99.5	99.3-99.7	2	99.0	97.6-100.5	2

**Table 0-126: Impact on the quality (TKW) compared to the UTC (set at 100%) from GLOB1913H on winter durum wheat under weed free conditions – pre-em – Mediterranean EPPO zone**

KCP	Crop Code	Variety	UNTREATED			PROSULFOCARB 900 EC			PROSULFOCARB 900 EC			Herold			Herold		
			% SNK control			900 g/L 2.6-2.7l/ha 2340-2430 g a.s./ha			900 g/L 5.4l/ha 4860 g a.s./ha			600 G/L 0.6l/ha 360 g a.s./ha			600 G/L 1.2l/ha 720 g a.s./ha		
KCP 6.4-37	TRZDW	ANVERGUR	41.35	100.0	-	103.5	-		99.7	-		97.8	-	Fosburi	105.0	-	Fosburi
KCP 6.4-40	TRZDW	BRANCALEONE	44.5	100.0	-	104.0	-		100.0	-		101.5	-	Battle Delta	102.2	-	Battle Delta
KCP 6.4-41	TRZDW	Levante	41.5	100.0	-	95.0	-		99.7	-		99.0	-	Battle Delta	94.9	-	Battle Delta
EPPO zone	Crop code	Assessm. type (unit)	Absolut value in the untreated control			PROSULFOCARB 900 EC at 2.6-2.7l/ha			PROSULFOCARB 900 EC at 5.4l/ha			Herold at 0.6l/ha			Herold at 1.2l/ha		
			Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
MED	TRZDW	TKW (g)	42.5	41.4-44.5	3	100.8	95-104	3	99.8	99.7-100	3	99.4	97.8-101.5	3	100.7	94.9-105	3

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**Table 0-127: Impact on the quality (HLW) compared to the UTC (set at 100%) on winter barley under weed free conditions – pre-em – Mediterranean EPPO zone**

KCP	Crop Code	Variety	UNTREATED			PROSULFOCARB 900 EC			PROSULFOCARB 900 EC			Roxy 800 EC			Roxy 800 EC			Roxy 800 EC			Roxy 800 EC		
			% control			900 g/L 4.4l/ha 3960 g a.s./ha			900 g/L 8.8l/ha 7920 g a.s./ha			800 G/L 4l/ha 3200 g a.s./ha			800 G/L 5l/ha 4000 g a.s./ha			800 G/L 8l/ha 6400 g a.s./ha			800 G/L 10l/ha 8000 g a.s./ha		
KCP 6.4-20	HORVW	Zlatko	70.74	100.0	-	100.3	-	CS	99.7	-	CS				99.8	-	Filon				99.9	-	Filon
KCP 6.4-21	HORVW	Treveler	49.96	100.0	-	101.8	-	CS	102.8	-	CS				98.2	-	Auros				104.7	-	Auros
KCP 6.4-22	HORVW	TRAVELER	58.87	100.0	-	101.5	-	CS	100.9	-	CS				102.1	-	Auros				101.9	-	Auros
KCP 6.4-24	HORVW	Barun	67.92	100.0	-	100.1	-	CS	99.3	-	CS				99.1	-	Filon				99.7	-	Filon
KCP 6.4-25	HORVW	CALANQUE	59.35	100.0	-	99.4	-	CS	101.1	-	CS	98.6	-					101.3	-				

EPPO zone	Crop code	Assessm. type (unit)	Absolut value in the untreated control			PROSULFOCARB 900 EC at 4.4l/ha			PROSULFOCARB 900 EC at 8.8l/ha			Roxy 800 EC at 4l/ha			Roxy 800 EC at 5l/ha			Roxy 800 EC at 8l/ha			Roxy 800 EC at 10l/ha		
			Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
MED	HORVW	HLW (kg/100L)	61.4	50-70.7	5	100.6	99.4-101.8	5	100.8	99.3-102.8	5	98.6	98.6-98.6	1	99.8	98.2-102.1	4	101.3	101.3-101.3	1	101.5	99.7-104.7	4

**Table 0-128: Impact on the quality (TKW) compared to the UTC (set at 100%) on winter barley under weed free conditions – pre-em – Mediterranean EPPO zone**

KCP	Crop Code	Variety	UNTREATED			PROSULFOCARB 900 EC			PROSULFOCARB 900 EC			Herold			Herold		
			% control			900 g/L 2.7l/ha 2430 g a.s./ha			900 g/L 5.4l/ha 4860 g a.s./ha			600 G/L 0.6l/ha 360 g a.s./ha			600 G/L 1.2l/ha 720 g a.s./ha		
KCP 6.4-39	HORVW	Meseta	45.53	100.0	b	100.2	b		100.1	b		99.7	b	Battle Delta	99.8	b	Battle Delta

EPPO zone	Crop code	Assessm. type (unit)	Absolut value in the untreated control			PROSULFOCARB 900 EC at 2.6-2.7l/ha			PROSULFOCARB 900 EC at 5.4l/ha			Herold at 0.6l/ha			Herold at 1.2l/ha		
			Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
MED	HORVW	TKW (g)	45.5	45.5-45.5	1	100.2	100.2-100.2	1	100.1	100.1-100.1	1	99.7	99.7-99.7	1	99.8	99.8-99.8	1

**Table 0-129: Impact on the quality (HLW) compared to the UTC (set at 100%) on winter triticale under weed free conditions – pre-em – Mediterranean EPPO zone**

KCP	Crop Code	Variety	Crop BBCH at appl.	UNTREATED			PROSULFOCARB 900 EC			PROSULFOCARB 900 EC			Roxy 800 EC			Roxy 800 EC		
				% control			900 g/L 4.4l/ha 3960 g a.s./ha			900 g/L 8.8l/ha 7920 g a.s./ha			800 G/L 5l/ha 4000 g a.s./ha			800 G/L 10l/ha 8000 g a.s./ha		
KCP 6.4-29	TTLWI	FIDO	3	65.23	100.0	-	100.5	-	CS	99.8	-	CS	98.4	-		99.2	-	
KCP 6.4-30	TTLWI	Vivacio	5	65.78	100.0	-	95.7	-	CS	98.8	-	CS	98.5	-		100.9	-	

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EPPO zone	Crop code	Assessm. type (unit)	Crop BBCH at appl.	Absolut value in the untreated control			PROSULFOCARB 900 EC at 4.4l/ha			PROSULFOCARB 900 EC at 8.8l/ha			Roxy 800 EC at 5l/ha			Roxy 800 EC at 10l/ha		
				Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
MED	TTLWI	HLW (kg/100L)	3-5	65.5	65.2-65.8	2	98.1	95.7-100.5	2	99.3	98.8-99.8	2	98.4	98.4-98.5	2	100.0	99.2-100.9	2

### **Cereals - Post-emergence application**

In all the selectivity trials GLOB1913H was applied once according to the GAP table (before crop emergence) at the rates of 3.5 - 4.4 L/ha (N) and 7 – 8.8 L/ha (2N), respectively representing the target rates and the double target rates of application. Durum wheat in Maritime zone represents an exception as the rate of 2.6 L/ha was the maximum tested, following current authorized amounts of prosulfocarb for the reference products in the country (i.e. France).

Commercial standards, were as well applied at authorized rate N and 2N as comparison. Details of the reference standards used in trials and application rates are presented in Table 0-4.

Plots were harvested individually to give results in HLW (kg per 100 L) and seeds collected to assess the weight of 1000 kernels (TKW). The percentage relative to the control is shown in the tables below and the absolute values assessed are reported for the untreated check.

Statistical analysis was made as letter test based on Student-Newman-Keuls ( $P = 0.05$ ). Where no letter is presented no difference was registered among treatments. Letters accompanying HLW or TKW absolute values correspond to the post-hoc test result for the UTC value set at 100%. Where no letter is presented no difference was registered among treatments.

Details on trial methodology for selectivity trials on cereals with post-emergence application are summarized in Table 0-9, Table 0-10, Table 0-11, Table 0-12, split for each EPPO climatic zone.

All the studies revealed no negative impact on the quality of winter cereals.

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## Maritime EPPO Zone

### Detailed quality data - Maritime EPPO Zone

**Table 0-130: Impact on the quality (HLW) compared to the UTC (set at 100%) on winter soft wheat under weed free conditions – post-em – Maritime EPPO zone**

KCP	Crop Code	Variety	Crop BBCH at appl.	UNTREATED % control SNK			PROSULFOCARB 900 EC 900 g/L 3.5l/ha 3150 g a.s./ha	PROSULFOCARB 900 EC 900 g/L 4.4l/ha 3960 g a.s./ha	PROSULFOCARB 900 EC 900 g/L 7l/ha 6300 g a.s./ha	PROSULFOCARB 900 EC 900 g/L 8.8l/ha 7920 g a.s./ha	Roxy 800 EC 800 G/L 4l/ha 3200 g a.s./ha	Roxy 800 EC 800 g/L 5l/ha 4000 g a.s./ha	Roxy 800 EC 800 G/L 8l/ha 6400 g a.s./ha	Roxy 800 EC 800 g/L 10l/ha 8000 g a.s./ha
KCP 6.4-66	TRZAW	KWS Talent	12	52.13	100.0 -			94.6 - CS		100.7 - CS		106.1 -		97.7 -
KCP 6.4-74	TRZAW	Linus	12	77.83	100.0 -	99.5 -			99.9 -			99.8 - Boxer		99.9 - Boxer
KCP 6.4-65	TRZAW	Tobak	12	66.75	100.0 -			104.2 - CS		102.3 - CS	102.7 -		101.5 -	

EPPO zone	Crop code	Assessm. type (unit)	Crop BBCH at appl.	Absolut value in the untreated control			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 4.4l/ha			PROSULFOCARB 900 EC at 7l/ha			PROSULFOCARB 900 EC at 8.8l/ha			Roxy 800 EC at 4l/ha			Roxy 800 EC at 5l/ha			Roxy 800 EC at 8l/ha			Roxy 800 EC at 10l/ha		
				Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn
MAR	TRZAW	HLW (kg/100L)	12-12	65.6	52.1-77.8	3	99.5	99.5-99.5	1	99.4	94.6-104.2	2	99.9	99.9-99.9	1	101.5	100.7-102.3	2	102.7	102.7-102.7	1	102.9	99.8-106.1	2	101.5	101.5-101.5	1	98.8	97.7-99.9	2

**Table 0-131: Impact on the quality (TKW) compared to the UTC (set at 100%) from GLOB1913H on winter soft wheat under weed free conditions – post-em – Maritime EPPO zone**

KCP	Crop Code	Variety	Crop BBCH at appl.	UNTREATED % control SNK			PROSULFOCARB 900 EC 900 g/L 3.5l/ha 3150 g a.s./ha			PROSULFOCARB 900 EC 900 g/L 7l/ha 6300 g a.s./ha			Roxy 800 EC 800 g/L 5l/ha 4000 g a.s./ha			Roxy 800 EC 800 g/L 10l/ha 8000 g a.s./ha		
KCP 6.4-72	TRZAW	Informer	12	40.13	100.0 -		101.8 -			103.5 -			99.0 - Boxer			96.3 -		Boxer
KCP 6.4-74	TRZAW	Linus	12	43.19	100.0 -		98.1 -			98.5 -			100.0 - Boxer			98.1 -		Boxer

EPPO zone	Crop code	Assessm. type (unit)	Crop BBCH at appl.	Absolut value in the untreated control			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 7l/ha			Roxy 800 EC at 5l/ha			Roxy 800 EC at 10l/ha		
				Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn
MAR	TRZAW	TKW (g)	12-12	41.7	40.1-43.2	2	99.9	98.1-101.8	2	101.0	98.5-103.5	2	99.5	99-100	2	97.2	96.3-98.1	2

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**Table 0-132: Impact on the quality (HLW) compared to the UTC (set at 100%) on winter durum wheat under weed free conditions – post-em – Maritime EPPO zone**

KCP	Crop Code	Variety	Crop BBCH at appl.	UNTREATED		PROSULFOCARB 900 EC		PROSULFOCARB 900 EC		Defi		Defi	
				% control		900 g/L 2.6-2.7l/ha 2340-2430 g a.s./ha		900 g/L 5.4l/ha 4860 g a.s./ha		800 G/L 3l/ha 2400 g a.s./ha		800 G/L 6l/ha 4800 g a.s./ha	
KCP 6.4-62	TRZDW	Voilur	13	76.58	100.0 -	92.9 -	CS	97.1 -	CS	94.3 -		85.2 -	

EPPO zone	Crop code	Assessm. type (unit)	Crop BBCH at appl.	Absolut value in the untreated control			PROSULFOCARB 900 EC at 2.6-2.7l/ha			PROSULFOCARB 900 EC at 5.4l/ha			Defi at 3l/ha			Defi at 6l/ha		
				Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn
MAR	TRZDW	HLW (kg/100L)	13-13	76.6	76.6-76.6	1	92.9	92.9-92.9	1	97.1	97.1-97.1	1	94.3	94.3-94.3	1	85.2	85.2-85.2	1

**Table 0-133: Impact on the quality (TKW) compared to the UTC (set at 100%) from GLOB1913H on winter durum wheat under weed free conditions – post-em – Maritime EPPO zone**

KCP	Crop Code	Variety	Crop BBCH at appl.	UNTREATED		PROSULFOCARB 900 EC		PROSULFOCARB 900 EC		Defi		Defi	
				% control		900 g/L 2.6-2.7l/ha 2340-2430 g a.s./ha		900 g/L 5.4l/ha 4860 g a.s./ha		800 G/L 5l/ha 4000 g a.s./ha		800 G/L 10l/ha 8000 g a.s./ha	
KCP 6.4-70	TRZDW	Envergur	11	39.6	100.0 -	94.2 -		108.0 -		101.9 -		98.7 -	
KCP 6.4-71	TRZDW	ANVERGUR	12	44.44	100.0 -	102.1 -		99.9 -		99.7 -		98.2 -	

EPPO zone	Crop code	Assessm. type (unit)	Crop BBCH at appl.	Absolut value in the untreated control			PROSULFOCARB 900 EC at 2.6-2.7l/ha			PROSULFOCARB 900 EC at 5.4l/ha			Defi at 5l/ha			Defi at 10l/ha		
				Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn
MAR	TRZDW	TKW (g)	11-12	42.0	39.6-44.4	2	98.1	94.2-102.1	2	103.9	99.9-108	2	100.8	99.7-101.9	2	98.5	98.2-98.7	2

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**Table 0-134: Impact on the quality (HLW) compared to the UTC (set at 100%) on winter barley under weed free conditions – post-em – Maritime EPPO zone**

KCP	Crop Code	Variety	Crop BBCH at appl.	UNTREATED		PROSULFOCARB 900 EC 900 g/L 3.5l/ha 3150 g a.s./ha	PROSULFOCARB 900 EC 900 g/L 4.4l/ha 3960 g a.s./ha	PROSULFOCARB 900 EC 900 g/L 7l/ha 6300 g a.s./ha	PROSULFOCARB 900 EC 900 g/L 8.8l/ha 7920 g a.s./ha	Roxy 800 EC 800 G/L 4l/ha 3200 g a.s./ha	Roxy 800 EC 800 G/L 5l/ha 4000 g a.s./ha	Roxy 800 EC 800 G/L 8l/ha 6400 g a.s./ha	Roxy 800 EC 800 G/L 10l/ha 8000 g a.s./ha
				% control	SNK								
KCP 6.4-64	HORVW	Jettoo	11	62.59	100.0 -		104.7 - CS		102.5 - CS		101.2 -		103.4 -
KCP 6.4-76	HORVW	Verity	11	69.92	100.0 ab	98.6 ab		99.2 ab			97.0 b Boxer		101.2 a Boxer
KCP 6.4-63	HORVW	Fabian	12	53.15	100.0 -		99.9 - CS		100.1 - CS	100.5 -		100.2 -	

EPPO zone	Crop code	Assessm. type (unit)	Crop BBCH at appl.	Absolut value in the untreated control			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 4.4l/ha			PROSULFOCARB 900 EC at 7l/ha			PROSULFOCARB 900 EC at 8.8l/ha			Roxy 800 EC at 4l/ha			Roxy 800 EC at 5l/ha			Roxy 800 EC at 8l/ha			Roxy 800 EC at 10l/ha		
				Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn
MAR	HORVW	HLW (kg/100L)	11-12	61.9	53.2-69.9	3	98.6	98.6-98.6	1	102.3	99.9-104.7	2	99.2	99.2-99.2	1	101.3	100.1-102.5	2	100.5	100.5-100.5	1	99.1	97-101.2	2	100.2	100.2-100.2	1	102.3	101.2-103.4	2

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**Table 0-135: Impact on the quality (HLW) compared to the UTC (set at 100%) on winter rye under weed free conditions – post-em – Maritime EPPO zone**

KCP	Crop Code	Variety	Crop BBCH at appl.	UNTREATED		PROSULFOCARB 900 EC		PROSULFOCARB 900 EC		Roxy 800 EC		Roxy 800 EC		Roxy 800 EC		Roxy 800 EC	
				% control		900 g/L 4.4l/ha 3960 g a.s./ha		900 g/L 8.8l/ha 7920 g a.s./ha		800 G/L 4l/ha 3200 g a.s./ha		800 G/L 5l/ha 4000 g a.s./ha		800 G/L 8l/ha 6400 g a.s./ha		800 G/L 10l/ha 8000 g a.s./ha	
KCP 6.4-60	SECCW	Dankowskie robin	13	70.48	100.0 -	100.1 - CS		100.0 - CS				100.2 -				99.4 -	
KCP 6.4-67	SECCW	INSPECTOR	12	70.27	100.0 a	98.7 b CS		96.8 d CS		100.2 a				100.4 a			

EPPO zone	Crop code	Assessm. type (unit)	Crop BBCH at appl.	Absolut value in the untreated control			PROSULFOCARB 900 EC at 4.4l/ha			PROSULFOCARB 900 EC at 8.8l/ha			Roxy 800 EC at 4l/ha			Roxy 800 EC at 5l/ha			Roxy 800 EC at 8l/ha			Roxy 800 EC at 10l/ha		
				Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn
MAR	SECCW	HLW (kg/100L)	12-13	70.4	70.3-70.5	2	99.4	98.7-100.1	2	98.4	96.8-100	2	100.2	100.2-100.2	1	100.2	100.2-100.2	1	100.4	100.4-100.4	1	99.4	99.4-99.4	1

**Table 0-136: Impact on the quality (TKW) compared to the UTC (set at 100%) on winter rye under weed free conditions – post-em – Maritime EPPO zone**

KCP	Crop Code	Variety	Crop BBCH at appl.	UNTREATED		PROSULFOCARB 900 EC		PROSULFOCARB 900 EC		Roxy 800 EC		Roxy 800 EC	
				% control		900 g/L 3.5l/ha 3150 g a.s./ha		900 g/L 7l/ha 6300 g a.s./ha		800 G/L 5l/ha 4000 g a.s./ha		800 G/L 10l/ha 8000 g a.s./ha	
KCP 6.4-73	SECCW	Serafino	11	28.22	100.0 -	99.9 -		99.5 -		101.8 - Boxer		102.0 - Boxer	

EPPO zone	Crop code	Assessm. type (unit)	Crop BBCH at appl.	Absolut value in the untreated control			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 7l/ha			Roxy 800 EC at 5l/ha			Roxy 800 EC at 10l/ha		
				Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn
MAR	SECCW	TKW (g)	11-11	28.2	28.2-28.2	1	99.9	99.9-99.9	1	99.5	99.5-99.5	1	101.8	101.8-101.8	1	102.0	102-102	1

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**Table 0-137: Impact on the quality (HLW) compared to the UTC (set at 100%) on winter triticale under weed free conditions – post-em – Maritime EPPO zone**

KCP	Crop Code	Variety	Crop BBCH at appl.	UNTREATED		PROSULFOCARB 900 EC		PROSULFOCARB 900 EC		Roxy 800 EC		Roxy 800 EC		Herold 600 SC		Herold 600 SC	
				% control		900 g/L 4.4l/ha 3960 g a.s./ha		900 g/L 8.8l/ha 7920 g a.s./ha		800 G/L 5l/ha 4000 g a.s./ha		800 G/L 10l/ha 8000 g a.s./ha		600 g/L 0.35l/ha 210 g a.s./ha		600 g/L 0.7l/ha 420 g a.s./ha	
KCP 6.4-61	TTLWI	OMEAC	12	66.34	100.0 -	98.9 -	CS	98.8 -	CS	98.5 -		99.2 -					
KCP 6.4-69	TTLWI	Barolo	12	75.62	100.0 -	100.8 -	CS	97.6 -	CS	99.7 -	Boxer	97.5 -	Boxer				
KCP 6.4-59	TTLWI	Trapero	11	68.27	100.0 -	100.0 -	CS	99.9 -	CS					100.2 -		101.3 -	

EPPO zone	Crop code	Assessm. type (unit)	Crop BBCH at appl.	Absolut value in the untreated control			PROSULFOCARB 900 EC at 4.4l/ha			PROSULFOCARB 900 EC at 8.8l/ha			Roxy 800 EC at 5l/ha			Roxy 800 EC at 10l/ha			Herold 600 SC at 0.35l/ha			Herold 600 SC at 0.7l/ha		
				Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn
MAR	TTLWI	HLW (kg/100L)	11-12	70.1	66.3-75.6	3	99.9	98.9-100.8	3	98.8	97.6-99.9	3	99.1	98.5-99.7	2	98.3	97.5-99.2	2	100.2	100.2-100.2	1	101.3	101.3-101.3	1

**Table 0-138: Impact on the quality (TKW) compared to the UTC (set at 100%) on winter triticale under weed free conditions – post-em – Maritime EPPO zone**

KCP	Crop Code	Variety	Crop BBCH at appl.	UNTREATED		PROSULFOCARB 900 EC		PROSULFOCARB 900 EC		Roxy 800 EC		Roxy 800 EC	
				% control		900 g/L 3.5l/ha 3150 g a.s./ha		900 g/L 7l/ha 6300 g a.s./ha		800 G/L 5l/ha 4000 g a.s./ha		800 G/L 10l/ha 8000 g a.s./ha	
KCP 6.4-75	TTLWI	Cappricia	11	38	100.0 -	100.2 -		98.1 -		99.0 -	Boxer	97.8 -	Boxer

EPPO zone	Crop code	Assessm. type (unit)	Crop BBCH at appl.	Absolut value in the untreated control			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 7l/ha			Roxy 800 EC at 5l/ha			Roxy 800 EC at 10l/ha		
				Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn	Mean	Min & Max	Mdn
MAR	TTLWI	TKW (g)	11-11	38.0	38-38	1	100.2	100.2-100.2	1	98.1	98.1-98.1	1	99.0	99-99	1	97.8	97.8-97.8	1

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## North-East EPPO Zone

### Detailed quality data - North-East EPPO Zone

**Table 0-139: Impact on the quality (HLW) compared to the UTC (set at 100%) on winter soft wheat under weed free conditions – post-em – North-East EPPO zone**

KCP	Crop Code	Variety	Crop BBCH at appl.	UNTREATED		PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	Boxer 800 EC	Boxer 800 EC	Boxer 800 EC	Boxer 800 EC
				% control	SNK	900 g/L 3.5l/ha 3150 g a.s./ha	900 g/L 4.4l/ha 3960 g a.s./ha	900 g/L 7l/ha 6300 g a.s./ha	900 g/L 8.8l/ha 7920 g a.s./ha	800 G/L 3l/ha 2400 g a.s./ha	800 G/L 4l/ha 3200 g a.s./ha	800 G/L 6l/ha 4800 g a.s./ha	800 G/L 8l/ha 6400 g a.s./ha
KCP 6.4-104	TRZAW	Patras	12	67.83	100.0 -		99.1 - CS		98.6 - CS		94.3 - Roxy		99.0 - Roxy
KCP 6.4-108	TRZAW	Ada	12	84.15	100.0 -	99.9 -		99.5 -		100.0 -		99.9 -	

EPPO zone	Crop code	Assessm. type (unit)	Crop BBCH at appl.	Absolut value in the untreated control			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 4.4l/ha			PROSULFOCARB 900 EC at 7l/ha			PROSULFOCARB 900 EC at 8.8l/ha			Boxer 800 EC at 3l/ha			Boxer 800 EC at 4l/ha			Boxer 800 EC at 6l/ha			Boxer 800 EC at 8l/ha		
				Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
NE	TRZAW	HLW (kg/100L)	12-12	76.0	67.8-84.2	2	99.9	99.9-99.9	1	99.1	99.1-99.1	1	99.5	99.5-99.5	1	98.6	98.6-98.6	1	100.0	100-100	1	94.3	94.3-94.3	1	99.9	99.9-99.9	1	99.0	99-99	1

**Table 0-140: Impact on the quality (TKW) compared to the UTC (set at 100%) on winter soft wheat under weed free conditions – post-em – North-East EPPO zone**

KCP	Crop Code	Variety	Crop BBCH at appl.	UNTREATED		PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	Boxer 800 EC	Boxer 800 EC	Boxer 800 EC	Boxer 800 EC
				% SNK control		900 g/L 3.5l/ha 3150 g a.s./ha	900 g/L 7l/ha 6300 g a.s./ha	800 G/L 3l/ha 2400 g a.s./ha	800 G/L 4l/ha 3200 g a.s./ha	800 G/L 6l/ha 4800 g a.s./ha	800 G/L 8l/ha 6400 g a.s./ha
KCP 6.4-108	TRZAW	Ada	12	36.18	100.0 -	102.2 -	103.2 -	100.6 -		101.1 -	
KCP 6.4-113	TRZAW	Etana	12	40.72	100.0 -	101.0 -	101.3 -		101.9 -		102.1 -

EPPO zone	Crop code	Assessm. type (unit)	Crop BBCH at appl.	Absolut value in the untreated control			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 7l/ha			Boxer 800 EC at 3l/ha			Boxer 800 EC at 4l/ha			Boxer 800 EC at 6l/ha			Boxer 800 EC at 8l/ha		
				Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
NE	TRZAW	TKW (g)	12-12	38.5	36.2-40.7	2	101.6	101-102.2	2	102.2	101.3-103.2	2	100.6	100.6-100.6	1	101.9	101.9-101.9	1	101.1	101.1-101.1	1	102.1	102.1-102.1	1

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**Table 0-141: Impact on the quality (HLW) compared to the UTC (set at 100%) on winter barley under weed free conditions – post-em – North-East EPPO zone**

KCP	Crop Code	Variety	Crop BBCH at appl.	UNTREATED		PROSULFOCARB 900 EC		PROSULFOCARB 900 EC		Boxer 800 EC		Boxer 800 EC	
				% control SNK		900 g/L 4.4l/ha 3960 g a.s./ha		900 g/L 8.8l/ha 7920 g a.s./ha		800 G/L 3l/ha 2400 g a.s./ha		800 G/L 6l/ha 4800 g a.s./ha	
KCP 6.4-103	HORVW	Ida	12	59	100.0 -	101.4 -	CS	99.2 -	CS	102.1 -		100.9 -	

EPPO zone	Crop code	Assessm. type (unit)	Crop BBCH at appl.	Absolut value in the untreated control			PROSULFOCARB 900 EC at 4.4l/ha			PROSULFOCARB 900 EC at 8.8l/ha			Boxer 800 EC at 3l/ha			Boxer 800 EC at 6l/ha		
				Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
NE	HORVW	HLW (kg/100L)	12-12	59.0	59-59	1	101.4	101.4-101.4	1	99.2	99.2-99.2	1	102.1	102.1-102.1	1	100.9	100.9-100.9	1

**Table 0-142: Impact on the quality (TKW) compared to the UTC (set at 100%) on winter barley under weed free conditions – post-em – North-East EPPO zone**

KCP	Crop Code	Variety	Crop BBCH at appl.	UNTREATED		PROSULFOCARB 900 EC		PROSULFOCARB 900 EC		Boxer 800 EC		Boxer 800 EC	
				% control SNK		900 g/L 3.5l/ha 3150 g a.s./ha		900 g/L 7l/ha 6300 g a.s./ha		800 G/L 4l/ha 3200 g a.s./ha		800 G/L 8l/ha 6400 g a.s./ha	
KCP 6.4-109	HORVW	Meridian	12	45.31	100.0 -	101.7 -		100.0 -		100.4 -		100.0 -	
KCP 6.4-112	HORVW	KWS Meridian	11	48.29	100.0 -	99.1 -		100.2 -		99.1 -		99.3 -	

EPPO zone	Crop code	Assessm. type (unit)	Crop BBCH at appl.	Absolut value in the untreated control			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 7l/ha			Boxer 800 EC at 4l/ha			Boxer 800 EC at 8l/ha		
				Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
NE	HORVW	TKW (g)	11-12	46.8	45.3-48.3	2	100.4	99.1-101.7	2	100.1	100-100.2	2	99.8	99.1-100.4	2	99.6	99.3-100	2

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**Table 0-143: Impact on the quality (HLW) compared to the UTC (set at 100%) on winter rye under weed free conditions – post-em – North-East EPPO zone**

KCP	Crop Code	Variety	Crop BBCH at appl.	UNTREATED		PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	Boxer 800 EC	Boxer 800 EC
				% control SNK		900 g/L 3.5l/ha 3150 g a.s./ha	900 g/L 4.4l/ha 3960 g a.s./ha	900 g/L 7l/ha 6300 g a.s./ha	900 g/L 8.8l/ha 7920 g a.s./ha	800 G/L 3l/ha 2400 g a.s./ha	800 G/L 6l/ha 4800 g a.s./ha
KCP 6.4-105	SECCW	Hadron	13	72.6	100.0 -		99.7 - CS		100.2 - CS	99.9 -	100.2 -
KCP 6.4-107	SECCW	Elvi	11	75.23	100.0 ab	99.6 ab		99.7 ab		100.0 a	99.8 ab

EPPO zone	Crop code	Assessm. type (unit)	Crop BBCH at appl.	Absolut value in the untreated control			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 4.4l/ha			PROSULFOCARB 900 EC at 7l/ha			PROSULFOCARB 900 EC at 8.8l/ha			Boxer 800 EC at 3l/ha			Boxer 800 EC at 6l/ha		
				Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
NE	SECCW	HLW (kg/100L)	11-13	73.9	72.6-75.2	2	99.6	99.6-99.6	1	99.7	99.7-99.7	1	99.7	99.7-99.7	1	100.2	100.2-100.2	1	100.0	99.9-100	2	100.0	99.8-100.2	2

**Table 0-144: Impact on the quality (TKW) compared to the UTC (set at 100%) on winter rye under weed free conditions – post-em – North-East EPPO zone**

KCP	Crop Code	Variety	Crop BBCH at appl.	UNTREATED		PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	Boxer 800 EC	Boxer 800 EC	Boxer 800 EC	Boxer 800 EC
				% control SNK		900 g/L 3.5l/ha 3150 g a.s./ha	900 g/L 7l/ha 6300 g a.s./ha	800 G/L 3l/ha 2400 g a.s./ha	800 G/L 4l/ha 3200 g a.s./ha	800 G/L 6l/ha 4800 g a.s./ha	800 G/L 8l/ha 6400 g a.s./ha
KCP 6.4-107	SECCW	Elvi	11	25.43	100.0 -	103.2 -	103.9 -	103.1 -		103.3 -	
KCP 6.4-111	SECCW	SU Performer	13	31.81	100.0 -	95.8 -	97.0 -		99.0 -		99.5 -

EPPO zone	Crop code	Assessm. type (unit)	Crop BBCH at appl.	Absolut value in the untreated control			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 7l/ha			Boxer 800 EC at 3l/ha			Boxer 800 EC at 4l/ha			Boxer 800 EC at 6l/ha			Boxer 800 EC at 8l/ha		
				Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
NE	SECCW	TKW (g)	11-13	28.6	25.4-31.8	2	99.5	95.8-103.2	2	100.4	97-103.9	2	103.1	103.1-103.1	1	99.0	99-99	1	103.3	103.3-103.3	1	99.5	99.5-99.5	1

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**Table 0-145: Impact on the quality (HLW) compared to the UTC (set at 100%) on winter triticale under weed free conditions – post-em – North-East EPPO zone**

KCP	Crop Code	Variety	Crop BBCH at appl.	UNTREATED		PROSULFOCARB 900 EC		PROSULFOCARB 900 EC		Boxer 800 EC		Boxer 800 EC	
				% control SNK		900 g/L 4.4l/ha 3960 g a.s./ha		900 g/L 8.8l/ha 7920 g a.s./ha		800 G/L 3l/ha 2400 g a.s./ha		800 G/L 6l/ha 4800 g a.s./ha	
KCP 6.4-106	TTLWI	Sekret	12	60.98	100.0 -	99.6 - CS		100.3 - CS		98.5 -		99.8 -	

EPPO zone	Crop code	Assessm. type (unit)	Crop BBCH at appl.	Absolut value in the untreated control			PROSULFOCARB 900 EC at 4.4l/ha			PROSULFOCARB 900 EC at 8.8l/ha			Boxer 800 EC at 3l/ha			Boxer 800 EC at 6l/ha		
				Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
NE	TTLWI	HLW (kg/100L)	12-12	61.0	61-61	1	99.6	99.6-99.6	1	100.3	100.3-100.3	1	98.5	98.5-98.5	1	99.8	99.8-99.8	1

**Table 0-146: Impact on the quality (TKW) compared to the UTC (set at 100%) on winter triticale under weed free conditions – post-em – North-East EPPO zone**

KCP	Crop Code	Variety	Crop BBCH at appl.	UNTREATED		PROSULFOCARB 900 EC		PROSULFOCARB 900 EC		Boxer 800 EC		Boxer 800 EC	
				% control SNK		900 g/L 3.5l/ha 3150 g a.s./ha		900 g/L 7l/ha 6300 g a.s./ha		800 G/L 4l/ha 3200 g a.s./ha		800 G/L 8l/ha 6400 g a.s./ha	
KCP 6.4-110	TTLWI	Capricia	11	40.77	100.0 -	98.9 -		99.1 -		99.8 -		97.8 -	

EPPO zone	Crop code	Assessm. type (unit)	Crop BBCH at appl.	Absolut value in the untreated control			PROSULFOCARB 900 EC at 3.5l/ha			PROSULFOCARB 900 EC at 7l/ha			Boxer 800 EC at 4l/ha			Boxer 800 EC at 8l/ha		
				Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
NE	TTLWI	TKW (g)	11-11	40.8	40.8-40.8	1	98.9	98.9-98.9	1	99.1	99.1-99.1	1	99.8	99.8-99.8	1	97.8	97.8-97.8	1

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## South-East EPPO Zone

### Detailed quality data - South-East EPPO Zone

**Table 0-147: Impact on the quality (HLW) compared to the UTC (set at 100%) on winter soft wheat under weed free conditions – post-em – South-East EPPO zone**

KCP	Crop Code	Variety	Crop BBCH at appl.	UNTREATED			PROSULFOCARB 900 EC			PROSULFOCARB 900 EC			Boxer			Boxer		
				% SNK			900 g/L			900 g/L			800 G/L			800 G/L		
				control			4.4l/ha			8.8l/ha			3l/ha			6l/ha		
				3960 g a.s./ha			7920 g a.s./ha			2400 g a.s./ha			4800 g a.s./ha					
KCP 6.4-120	TRZAW	Limbergh	12	36.4	100.0	-	100.7	-	4L/ha	99.7	-	8 L/ha	99.3	-	3 L/ha	99.4	-	Fidox

EPPO zone	Crop code	Assessm. type (unit)	Crop BBCH at appl.	Absolut value in the untreated control			PROSULFOCARB 900 EC at 4.4l/ha			PROSULFOCARB 900 EC at 8.8l/ha			Boxer at 3l/ha			Boxer at 6l/ha		
				Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
S-E	TRZAW	TKW (g)	12	36.4	36.4-36.4	1	100.7	100.7-100.7	1	99.7	99.7-99.7	1	99.3	99.3-99.3	1	99.4	99.4-99.4	1

**Table 0-148: Impact on the quality (HLW) compared to the UTC (set at 100%) on winter barley under weed free conditions – post-em – South-East EPPO zone**

KCP	Crop Code	Variety	Crop BBCH at appl.	UNTREATED			PROSULFOCARB 900 EC			PROSULFOCARB 900 EC			Boxer			Boxer		
				% SNK			900 g/L			900 g/L			800 G/L			800 G/L		
				control			4.4l/ha			8.8l/ha			3l/ha			6l/ha		
				3960 g a.s./ha			7920 g a.s./ha			2400 g a.s./ha			4800 g a.s./ha					
KCP 6.4-119	HORVW	SU Jule	11	45.8	100.0	-	99.9	-	4L/ha	98.7	-	8 L/ha	100.9	-	3 L/ha	98.5	-	Fidox

EPPO zone	Crop code	Assessm. type (unit)	Crop BBCH at appl.	Absolut value in the untreated control			PROSULFOCARB 900 EC at 4.4l/ha			PROSULFOCARB 900 EC at 8.8l/ha			Boxer at 3l/ha			Boxer at 6l/ha		
				Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
S-E	HORVW	TKW (g)	11	45.8	45.8-45.8	1	99.9	99.9-99.9	1	98.7	98.7-98.7	1	100.9	100.9-100.9	1	98.5	98.5-98.5	1

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## Mediterranean

### Detailed quality data - Mediterranean EPPO Zone

**Table 0-149: Impact on the quality (HLW) compared to the UTC (set at 100%) on winter soft wheat under weed free conditions – post-em – Mediterranean EPPO zone**

KCP	Crop Code	Variety	Crop BBCH at appl.	UNTREATED			PROSULFOCARB 900 EC			PROSULFOCARB 900 EC			Roxy 800 EC			Roxy 800 EC			Roxy 800 EC			Roxy 800 EC			Herold			Herold		
				% control SNK			900 g/L 8.4l/ha 3960 g a.s./ha			900 g/L 8.8l/ha 7920 g a.s./ha			800 G/L 4l/ha 3200 g a.s./ha			800 G/L 5l/ha 4000 g a.s./ha			800 G/L 8l/ha 6400 g a.s./ha			800 G/L 10l/ha 8000 g a.s./ha			600 G/L 0.6l/ha 360 g a.s./ha			600 G/L 1.2l/ha 720 g a.s./ha		
KCP 6.4-79	TRZAW	Sirtaki	12	80	100.0	-	100.4	-	CS	99.3	-	CS											100.0	-	Naceto	100.7	-	Naceto		
KCP 6.4-84	TRZAW	Falado	13	75.24	100.0	-	100.7	-	CS	99.2	-	CS			100.3	-	Filon			99.5	-	Filon								
KCP 6.4-85	TRZAW	Giorgione	13	79.2	100.0	-	100.9	-	CS	102.2	-	CS	101.3	-			100.1	-												
KCP 6.4-91	TRZAW	TOCAÑO	12	74.33	100.0	-	99.3	-	CS	97.4	-	CS			97.6	-	Auros			95.5	-	Auros								
KCP 6.4-92	TRZAW	Rebelde	14	82.2	100.0	-	99.8	-	CS	100.0	-	CS			99.8	-			98.6	-										
KCP 6.4-93	TRZAW	Ingenio	11	77.51	100.0	-	100.2	-	CS	100.4	-	CS			100.4	-	Filon			99.7	-	Filon								
KCP 6.4-94	TRZAW	Rebelde	13	55.13	100.0	-	101.0	-	CS	103.6	-	CS	101.1	-			102.5	-												
KCP 6.4-95	TRZAW	Rebelde	14	38.3	100.0	-	98.0	-	CS	100.3	-	CS	98.6	-			91.9	-												

EPPO zone	Crop code	Assessm. type (unit)	Crop BBCH at appl.	Absolut value in the untreated control			PROSULFOCARB 900 EC at 4.4l/ha			PROSULFOCARB 900 EC at 8.8l/ha			Roxy 800 EC at 4l/ha			Roxy 800 EC at 5l/ha			Roxy 800 EC at 8l/ha			Roxy 800 EC at 10l/ha			Herold at 0.6l/ha			Herold at 1.2l/ha		
				Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
MED	TRZAW	HLW (kg/100L)	11-14	70.2	38.3-82.2	8	100.0	98-101	8	100.3	97.4-103.6	8	100.3	98.6-101.3	3	99.5	97.6-100.4	4	98.1	91.9-102.5	3	98.3	95.5-99.7	4	100.0	100-100	1	100.7	100.7-100.7	1

**Table 0-150: Impact on the quality (TKW) compared to the UTC (set at 100%) from GLOB1913H on winter soft wheat under weed free conditions – post-em – Mediterranean EPPO zone**

KCP	Crop Code	Variety	Crop BBCH at appl.	UNTREATED			PROSULFOCARB 900 EC 900 g/L 2.6-2.7l/ha			PROSULFOCARB 900 EC 900 g/L 5.4l/ha			Herold 600 G/L 0.6l/ha			Herold 600 G/L 1.2l/ha		
				% control	SNK		2340-2430 g a.s./ha			4860 g a.s./ha			360 g a.s./ha			720 g a.s./ha		
KCP 6.4-98	TRZAW	Akim	11	33.24	100.0	-	102.9	-		101.2	-		101.5	-		99.6	-	
KCP 6.4-99	TRZAW	Tiepolo	13	50.45	100.0	a	98.6	ab		99.7	a		96.2	b	Fosburi	95.4	b	Fosburi

EPPO zone	Crop code	Assessm. type (unit)	Crop BBCH at appl.	Absolut value in the untreated control			PROSULFOCARB 900 EC at 2.6-2.7l/ha			PROSULFOCARB 900 EC at 5.4l/ha			Herold at 0.6l/ha			Herold at 1.2l/ha		
				Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n

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MED	TRZAW	TKW (g)	11-13	41.8	33.2-50.5	2	100.8	98.6-102.9	2	100.5	99.7-101.2	2	98.9	96.2-101.5	2	97.5	95.4-99.6	2
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**Table 0-151: Impact on the quality (HLW) compared to the UTC (set at 100%) on winter durum wheat under weed free conditions – post-em – Mediterranean EPPO zone**

KCP	Crop Code	Variety	Crop BBCH at appl.	UNTREATED			PROSULFOCARB 900 EC 900 g/L 2.6-2.7l/ha	PROSULFOCARB 900 EC 900 g/L 4.4l/ha	PROSULFOCARB 900 EC 900 g/L 5.4l/ha	PROSULFOCARB 900 EC 900 g/L 8.8l/ha	Roxy 800 EC 800 G/L 4l/ha	Roxy 800 EC 800 G/L 5l/ha	Roxy 800 EC 800 G/L 8l/ha	Roxy 800 EC 800 G/L 10l/ha	Defi 800 G/L 3l/ha	Defi 800 G/L 6l/ha	Herold 600 G/L 0.6l/ha	Herold 600 G/L 1.2l/ha
				% control	SNK		2340-2430 g a.s./ha	3960 g a.s./ha	4860 g a.s./ha	7920 g a.s./ha	3200 g a.s./ha	4000 g a.s./ha	6400 g a.s./ha	8000 g a.s./ha	2400 g a.s./ha	4800 g a.s./ha	360 g a.s./ha	720 g a.s./ha
KCP 6.4-100	TRZDW	Anvergur	12	74.2	100.0 -		99.9 -		102.0 -								98.9 - Fosburi	100.0 - Fosburi
KCP 6.4-80	TRZDW	Tocaño	13	68.37	100.0 -			98.9 - CS		103.2 - CS		98.2 - Auros		103.6 - Auros				
KCP 6.4-81	TRZDW	Euro duro	12	70.68	100.0 -	100.0 - CS			100.2 - CS			102.1 - Auros		101.9 - Auros				
KCP 6.4-82	TRZDW	Avispa	11	70.81	100.0 -	96.5 - CS			103.6 - CS			98.5 - Auros		99.3 - Auros				
KCP 6.4-83	TRZDW	Anvergur	14	68.4	100.0 -	100.7 - CS			102.3 - CS						101.6 -	102.5 -		
KCP 6.4-86	TRZDW	Pigreco	13	77.2	100.0 -	99.7 - CS			99.8 - CS		101.6 -		101.5 -					

EPPO zone	Crop code	Assess m. type (unit)	Crop BBCH at appl.	Absolut value in the untreated control			PROSULFOCARB 900 EC at 2.6-2.7l/ha			PROSULFOCARB 900 EC at 4.4l/ha			PROSULFOCARB 900 EC at 5.4l/ha			PROSULFOCARB 900 EC at 8.8l/ha			Roxy 800 EC at 4l/ha			Roxy 800 EC at 5l/ha			Roxy 800 EC at 8l/ha			Roxy 800 EC at 10l/ha			Defi at 3l/ha			Defi at 6l/ha			Herold at 0.6l/ha			Herold at 1.2l/ha		
				Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
MED	TRZDW	HLW (kg/100 L)	11-14	71.6	68.4-77.2	6	99.3	96.5-100.7	5	98.9	98.9-98.9	1	101.6	99.8-103.6	5	103.2	103.2-103.2	1	101.6	101.6-101.6	1	99.6	98.2-102.1	3	101.5	101.5-101.5	1	101.6	99.3-103.6	3	101.6	101.6-101.6	1	102.5	102.5-102.5	1	98.9	98.9-98.9	1	100.0	100-100	1

**Table 0-152: Impact on the quality (TKW) compared to the UTC (set at 100%) from GLOB1913H on winter durum wheat under weed free conditions – post-em – Mediterranean EPPO zone**

KCP	Crop Code	Variety	Crop BBCH at appl.	UNTREATED			PROSULFOCARB 900 EC 900 g/L 2.6-2.7l/ha	PROSULFOCARB 900 EC 900 g/L 5.4l/ha	PROSULFOCARB 900 EC 900 g/L 8.8l/ha	Herold 600 G/L 0.6l/ha	Herold 600 G/L 1.2l/ha
				% control	SNK		2340-2430 g a.s./ha	4860 g a.s./ha		360 g a.s./ha	720 g a.s./ha
KCP 6.4-100	TRZDW	Anvergur	12	40.8	100.0 -		101.0 -		102.0 -	100.1 -	Fosburi
KCP 6.4-101	TRZDW	Levante	13	42.45	100.0 -		101.0 -		101.1 -	101.3 -	Fuga Delta
KCP 6.4-77	TRZDW	Levante	11	41.88	100.0 -		100.6 -		98.7 -	95.6 -	Battle Delta

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EPPO zone	Crop code	Assessm. type (unit)	Crop BBCH at appl.	Absolut value in the untreated control			PROSULFOCARB 900 EC at 2.6-2.7l/ha			PROSULFOCARB 900 EC at 5.4l/ha			Herold at 0.6l/ha			Herold at 1.2l/ha		
				Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
MED	TRZDW	TKW (g)	11-13	41.7	40.8-42.5	3	100.9	100.6-101	3	100.6	98.7-102	3	99.0	95.6-101.3	3	100.8	98.9-103.6	3

**Table 0-153: Impact on the quality (HLW) compared to the UTC (set at 100%) on winter barley under weed free conditions – post-em – Mediterranean EPPO zone**

KCP	Crop Code	Variety	Crop BBCH at appl.	UNTREATED	PROSULFOCARB 900 EC	PROSULFOCARB 900 EC	Roxy 800 EC	Roxy 800 EC	Roxy 800 EC	Roxy 800 EC	Herold	Herold
				% SNK control	900 g/L 4.4l/ha 3960 g a.s./ha	900 g/L 8.8l/ha 7920 g a.s./ha	800 G/L 4l/ha 3200 g a.s./ha	800 G/L 5l/ha 4000 g a.s./ha	800 G/L 8l/ha 6400 g a.s./ha	800 G/L 10l/ha 8000 g a.s./ha	600 G/L 0.6l/ha 360 g a.s./ha	600 G/L 1.2l/ha 720 g a.s./ha
KCP 6.4-78	HORVW	Zlatko	11	70.54	100.0 -	100.5 - CS	100.7 - CS				100.4 - Fuga Delta	99.8 - Fuga Delta
KCP 6.4-87	HORVW	Treveler	13	61.62	100.0 -	100.4 - CS	101.3 - CS	101.0 - Auros		103.2 - Auros		
KCP 6.4-88	HORVW	Memento	13	57.71	100.0 a	99.1 ab CS	97.1 b CS	98.6 ab		96.7 b		
KCP 6.4-89	HORVW	Barun	13	66.54	100.0 -	100.2 - CS	100.2 - CS	100.3 - Filon		100.7 - Filon		
KCP 6.4-90	HORVW	IDRA	14	51.9	100.0 -	102.1 - CS	101.7 - CS	104.5 -	101.4 -			

EPPO zone	Crop code	Assessm. type (unit)	Crop BBCH at appl.	Absolut value in the untreated control			PROSULFOCARB 900 EC at 4.4l/ha			PROSULFOCARB 900 EC at 8.8l/ha			Roxy 800 EC at 4l/ha			Roxy 800 EC at 5l/ha			Roxy 800 EC at 8l/ha			Roxy 800 EC at 10l/ha			Herold at 0.6l/ha			Herold at 1.2l/ha		
				Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
MED	HORVW	HLW (kg/100L)	11-14	61.7	51.9-70.5	5	100.5	99.1-102.1	5	100.2	97.1-101.7	5	104.5	104.5-104.5	1	100.0	98.6-101	3	101.4	101.4-101.4	1	100.2	96.7-103.2	3	100.4	100.4-100.4	1	99.8	99.8-99.8	1

**Table 0-154: Impact on the quality (TKW) compared to the UTC (set at 100%) on winter barley under weed free conditions – post-em – Mediterranean EPPO zone**

KCP	Crop Code	Variety	Crop BBCH at appl.	UNTREATED		PROSULFOCARB 900 EC		PROSULFOCARB 900 EC		Herold		Herold	
					% SNK control	900 g/L 2.6-2.7l/ha 2340-2430 g a.s./ha	900 g/L 5.4l/ha 4860 g a.s./ha	900 g/L 5.4l/ha 4860 g a.s./ha	600 G/L 0.6l/ha 360 g a.s./ha	600 G/L 0.6l/ha 360 g a.s./ha	Battle Delta	600 G/L 1.2l/ha 720 g a.s./ha	600 G/L 1.2l/ha 720 g a.s./ha
KCP 6.4-102	HORVW	Bente	13	54.69	100.0 -	101.3 -	100.0 -	100.0 -	102.4 -	102.4 -	Battle Delta	101.7 -	101.7 -

EPPO zone	Crop code	Assessm. type (unit)	Crop BBCH at appl.	Absolut value in the untreated control			PROSULFOCARB 900 EC at 2.6-2.7l/ha			PROSULFOCARB 900 EC at 5.4l/ha			Herold at 0.6l/ha			Herold at 1.2l/ha		
				Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
MED	HORVW	TKW (g)	13-13	54.7	54.7-54.7	1	101.3	101.3-101.3	1	100.0	100-100	1	102.4	102.4-102.4	1	101.7	101.7-101.7	1

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**Table 0-155: Impact on the quality (HLW) compared to the UTC (set at 100%) on winter triticale under weed free conditions – post-em – Mediterranean EPPO zone**

KCP	Crop Code	Variety	Crop BBCH at appl.	UNTREATED			PROSULFOCARB 900 EC 900 g/L 4.4l/ha 3960 g a.s./ha			PROSULFOCARB 900 EC 900 g/L 8.8l/ha 7920 g a.s./ha			Roxy 800 EC 800 G/L 5l/ha 4000 g a.s./ha			Roxy 800 EC 800 G/L 10l/ha 8000 g a.s./ha		
					% control	SNK												
KCP 6.4-96	TTLWI	Fido	14	64.78	100.0	-	99.8	-	CS	99.5	-	CS	97.6	-		99.0	-	
KCP 6.4-97	TTLWI	Vivacio	14	63.84	100.0	-	98.4	-	CS	98.0	-	CS	98.5	-		98.3	-	

EPPO zone	Crop code	Assessm. type (unit)	Crop BBCH at appl.	Absolut value in the untreated control			PROSULFOCARB 900 EC at 4.4l/ha			PROSULFOCARB 900 EC at 8.8l/ha			Roxy 800 EC at 5l/ha			Roxy 800 EC at 10l/ha		
				Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n	Mean	Min & Max	n
MED	TTLWI	HLW (kg/100L)	14-14	64.3	63.8-64.8	2	99.1	98.4-99.8	2	98.7	98-99.5	2	98.1	97.6-98.5	2	98.7	98.3-99	2

## Potatoes

In all the selectivity trials on potatoes, GLOB1913H (also identified as Prosulfocarb 900 EC or Roxy 900 EC) was applied once according to the GAP table (pre-emergence, BBCH 0-09) at the rate of 4.4 L/ha (N) and 8.8 L/ha (2N), respectively representing the maximum target rate and the double target rate of application.

Commercial standards were as well applied at N and 2N as comparison. Details of the reference standards used in trials and application rates are presented in Table 0-4. Moreover, the standards are all products based on 800 g/L of prosulfocarb, applied at virtually the same amount of active substance per hectare.

In line with EPPO PP1/135, the number and weight of tubers in 3 different size grading classes was assessed in each trial, as well as the number and weight of malformed tubers. For trials conducted with potato varieties for industry, the starch contents was evaluated as well.

Grading classes differed among trials (according to specific national standards). They can be summarized as follows:

COMPR1	<35mm	<40mm	<41mm	<35mm	<45mm
COMPR2	35-55mm	40-70mm	41-58mm	35-45mm	45-60mm
COMPR3	>55mm	>70mm	>58mm	>45mm	>60mm

The percentage relative to the control is shown in the tables below and the absolute values assessed are reported for the untreated check. Grading classes are presented as an absolute percentage of the harvest for all treatments, including untreated plots.

Statistical analysis was made as letter test based on Student-Newman-Keuls ( $P = 0.05$ ). Where no letter is presented (absent or '-') no difference was registered among treatments. Letters accompanying yield absolute values correspond to the post-hoc test result for the UTC value set at 100%.

Details on trial methodology for selectivity trials is summarized in Table 0-13, Table 0-14, Table 0-15 and Table 0-16, split for each EPPO climatic zone.

## Maritime EPPO Zone

A total of 5 trials were carried out during 2020 in Czech Republic, Germany and the Netherlands. Quality data are summarized in Table 0-156, Table 0-157 and Table 0-158.

Regarding the number of malformed tubers, the trials revealed a strong variability. It is important to notice that these assessments have to be handled with care since the comparison with paired plots in high variability conditions provides non-realistic percentage of control. Still, no statistical differences could be assigned.

Regarding starch content, 3 studies revealed no negative impact on quality of potatoes. Also the grading distribution revealed no negative impact, with most of the tubers falling in the intermediate grading class, with a very similar proportion.

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**Detailed quality data - Maritime EPPO Zone****Table 0-156: Impact on quality (number of malformed tubers per plot) from GLOB1913H on potatoes under weed free conditions – Maritime EPPO zone**

KCP	Crop Variety	Rating Date	Rating Type	UNTREATED			GLOB1913H 900 g/L EC 4.4 L/ha 3960 g a.s./ha	Boxer/Fidox 800 g/L EC 5 L/ha 4000 g a.s./ha	GLOB1913H 900 g/L EC 8.8 L/ha 7920 g a.s./ha	Boxer/Fidox 800 g/L EC 10 L/ha 8000 g a.s./ha						
				absolute value	%control	SNK										
KCP 6.4-194	Dali	07/10/20	MAMDEF	0.75	50	-	525	-	125	-	Boxer	300	-	200	-	Boxer
KCP 6.4-195	Antonia	01/10/20	MAMDEF	3.25	25	-	0	-	0	-	Boxer	0	-	0	-	Boxer
KCP 6.4-196	Kuras	29/10/20	MAMDEF	14	100	-	70.83	-	69.64	-	Boxer	30.36	-	73.21	-	Boxer
KCP 6.4-197	Goldmarie	21/10/20	MAMDEF	18	100	-	222.86	-	215.89	-	Boxer	195.71	-	175.71	-	Boxer
KCP 6.4-198	Artus	10/11/20	MAMDEF	0	100	-	100	-	100	-	Fidox at 4L/ha	100	-	100	-	Fidox at 8L/ha

EPPO zone	Nb. trials	Grouping	Assessment type (unit)	Absolut value in the untreated control			Yield at 1N as % of untreated						Yield at 2N rate as % of untreated					
							GLOB1913H at 4.4 L/ha			Boxer/Fidox at 5 L/ha			GLOB1913H at 8.8 L/ha			Boxer/Fidox at 10 L/ha		
				Mean	Min &	Max	Mean	Min &	Max	Mean	Min &	Max	Mean	Min &	Max	Mean	Min &	Max
MAR	5	All	MAMDEF (nb/plot)	7.2	0.0	18.0	183.7	0.0	525.0	102.1	0.0	215.9	125.2	0.0	300.0	109.8	0.0	200.0

**Table 0-157: Impact on quality (starch content,%) from GLOB1913H on potatoes under weed free conditions – Maritime EPPO zone**

KCP	Crop Variety	Rating Date	Rating Type	UNTREATED			GLOB1913H 900 g/L EC 4.4 L/ha 3960 g a.s./ha	Boxer/Fidox 800 g/L EC 5 L/ha 4000 g a.s./ha	GLOB1913H 900 g/L EC 8.8 L/ha 7920 g a.s./ha	Boxer/Fidox 800 g/L EC 10 L/ha 8000 g a.s./ha	
				absolute value	%control	SNK					
KCP 6.4-194	Dali	26/11/20	STACON	10.03	100	-	101.39	-	100.29	-	Boxer
KCP 6.4-196	Kuras	29/10/20	STACON	15.78	100	-	100.89	-	103.43	-	Boxer
KCP 6.4-198	Artus	15/12/20	STACON	9.25	100	-	105.46	-	105.44	-	Fidox at 4L/ha
									103.01	-	Fidox at 8L/ha

EPPO zone	Nb. trials	Grouping	Assessment type (unit)	Absolut value in the untreated control			Yield at 1N as % of untreated						Yield at 2N rate as % of untreated					
							GLOB1913H at 4.4 L/ha			Boxer/Fidox at 5 L/ha			GLOB1913H at 8.8 L/ha			Boxer/Fidox at 10 L/ha		
				Mean	Min &	Max	Mean	Min &	Max	Mean	Min &	Max	Mean	Min &	Max	Mean	Min &	Max
MAR	3	All	STACON (%)	11.7	9.3	15.8	102.6	100.9	105.5	103.1	100.3	105.4	101.5	100.5	103.0	101.7	100.9	102.7

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**Table 0-158: Impact on quality (grading classes 1-3, absolute %) from GLOB1913H on potatoes under weed free conditions – Maritime EPPO zone**

KCP	Crop Variety	Rating Date	Rating Type	UNTREATED			GLOB1913H 900 g/L EC 4.4 L/ha 3960 g a.s./ha	Boxer/Fidox 800 g/L EC 5 L/ha 4000 g a.s./ha	GLOB1913H 900 g/L EC 8.8 L/ha 7920 g a.s./ha	Boxer/Fidox 800 g/L EC 10 L/ha 8000 g a.s./ha		
				absolute value	%control	SNK						
KCP 6.4-194	Dali	07/10/20	COMPR1	7.53	cde		7.2 de	9.21 bc	Boxer	8.26 b-e	6.49 e	Boxer
			COMPR2	68.85	-		68.73 -	67.93 -	Boxer	72.24 -	73.04 -	Boxer
			COMPR3	23.62	-		24.07 -	22.86 -	Boxer	19.5 -	20.48 -	Boxer
KCP 6.4-195	Antonia	01/10/20	COMPR1	42	-		47.82 -	47.45 -	Boxer	48.58 -	47.05 -	Boxer
			COMPR2	53.8	-		49.39 -	48.79 -	Boxer	47.58 -	47.96 -	Boxer
			COMPR3	4.2	-		2.8 -	3.77 -	Boxer	3.85 -	5 -	Boxer
KCP 6.4-196	Kuras	29/10/20	COMPR1	13.85	-		12.8 -	12.78 -	Boxer	12.03 -	13.13 -	Boxer
			COMPR2	38.03	-		40.5 -	35.73 -	Boxer	39.45 -	40.3 -	Boxer
			COMPR3	48.13	-		46.73 -	51.48 -	Boxer	48.5 -	46.58 -	Boxer
KCP 6.4-197	Goldmarie	21/10/20	COMPR1	8.92	-		8.58 -	10.34 -	Boxer	11.15 -	11.69 -	Boxer
			COMPR2	90.83	-		90.27 -	88.21 -	Boxer	86.83 -	87.37 -	Boxer
			COMPR3	0.25	-		1.14 -	1.44 -	Boxer	2.02 -	0.93 -	Boxer
KCP 6.4-198	Artus	10/11/20	COMPR1	21.1	-		20.09 -	18.83 -	Fidox at 4L/ha	17.31 -	19.07 -	Fidox at 8L/ha
			COMPR2	69.49	-		69.43 -	68.78 -	Fidox at 4L/ha	69.5 -	70.67 -	Fidox at 8L/ha
			COMPR3	9.42	-		10.48 -	12.39 -	Fidox at 4L/ha	13.21 -	10.26 -	Fidox at 8L/ha

EPPO zone	Nb. trials	Grouping	Assessment type (unit)	Absolut value in the untreated control			Yield at 1N as % of all classes						Yield at 2N rate as % of all classes					
							GLOB1913H at 4.4 L/ha			Boxer/Fidox at 5 L/ha			GLOB1913H at 8.8 L/ha			Boxer/Fidox at 10 L/ha		
				Mean	Min &	Max	Mean	Min &	Max	Mean	Min &	Max	Mean	Min &	Max	Mean	Min &	Max
MAR	5	All	COMPR1 (% abs)	18.7	7.5	42.0	19.3	7.2	47.8	19.7	9.2	47.5	19.5	8.3	48.6	19.5	6.5	47.1
			COMPR2 (% abs)	64.2	38.0	90.8	63.7	40.5	90.3	61.9	35.7	88.2	63.1	39.5	86.8	63.9	40.3	87.4
			COMPR3 (% abs)	17.1	0.3	48.1	17.0	1.1	46.7	18.4	1.4	51.5	17.4	2.0	48.5	16.7	0.9	46.6



### North-East EPPO Zone

A total of 2 trials were carried out during 2020 in Poland. In support of authorization in the Central zone, the results of all trials conducted in the North-East climatic zone were combined with the results of the German and Czech trials (4 trials) since these are neighbouring countries and considered as valid to Poland, the only MS in the Central zone belonging to the North-East climatic zone. The combined results from 6 trials are thus shown in the table below. The trials highlighted in yellow are those conducted in the North-East EPPO Zone, while blue ones are those conducted in DE and CZ . Quality data are summarized in Table 0-159, Table 0-160 and Table 0-161.

Regarding the number of malformed tubers, the trials revealed a strong variability. It is important to notice that these assessments have to be handled with care since the comparison with paired plots in high variability conditions provides non-realistic percentage of control. Still, no statistical differences could be assigned.

Regarding starch content, 3 studies revealed no negative impact on quality of potatoes at the maximum proposed label rate of 4.4 L/ha. Also the grading distribution revealed no negative impact, with most of the tubers falling in the intermediate grading class. In only one trial (var. Lady Claire) the proportion of the intermediate grade was significantly higher for GLOB1913H at 4.4 L/ha than on untreated plots, reflecting at the same time a reduction of the biggest tubers but also of the smallest tubers.

GLOB1913H

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**Detailed quality data - North-East EPPO Zone****Table 0-159: Impact on quality (number of malformed tubers per plot) from GLOB1913H on potatoes under weed free conditions – North-East EPPO zone**

KCP	Crop Variety	Rating Date	Rating Type	UNTREATED			GLOB1913H 900 g/L EC 4.4 L/ha 3960 g a.s./ha	Boxer/Roxy/Fidox 800 g/L EC 5 L/ha 4000 g a.s./ha	GLOB1913H 900 g/L EC 8.8 L/ha 7920 g a.s./ha	Boxer/Fidox 800 g/L EC 10 L/ha 8000 g a.s./ha						
				absolute value	%control	SNK										
KCP 6.4-194	Dali	07/10/20	MAMDEF	0.75	50	-	525	-	125	-	Boxer	300	-	200	-	Boxer
KCP 6.4-195	Antonia	01/10/20	MAMDEF	3.25	25	-	0	-	0	-	Boxer	0	-	0	-	Boxer
KCP 6.4-196	Kuras	29/10/20	MAMDEF	14	100	-	70.83	-	69.64	-	Boxer	30.36	-	73.21	-	Boxer
KCP 6.4-197	Goldmarie	21/10/20	MAMDEF	18	100	-	222.86	-	215.89	-	Boxer	195.71	-	175.71	-	Boxer
KCP 6.4-192	Boryna	08/10/20	MAMDEF	0.5	25	-	0	-	0	-	Boxer 800 EC	37.5	-	0	-	Boxer
KCP 6.4-193	Lady Claire	15/09/20	MAMDEF	0	100	-	100	-	100	-	Boxer 800 EC	100	-	100	-	Boxer

EPPO zone	Nb. trials	Grouping	Assessment type (unit)	Absolut value in the untreated control			Yield at 1N as % of untreated						Yield at 2N rate as % of untreated					
							GLOB1913H at 4.4 L/ha			Boxer/Roxy/Defi /Filon/Fidox at 5 L/ha			GLOB1913H at 8.8 L/ha			Boxer/Fidox at 10 L/ha		
				Mean	Min &	Max	Mean	Min &	Max	Mean	Min &	Max	Mean	Min &	Max	Mean	Min &	Max
NE	2	All	MAMDEF (nb/plot)	0.3	0.0	0.5	50.0	0.0	100.0	50.0	0.0	100.0	68.8	37.5	100.0	50.0	0.0	100.0
<b>Means valid for Poland (when available, CZ and DE trials included in mean calculation)</b>																		
NE (+CZ,DE)	6	All	MAMDEF (nb/plot)	6.1	0.0	18.0	153.1	0.0	525.0	85.1	0.0	215.9	110.6	0.0	300.0	91.5	0.0	200.0

**Table 0-160: Impact on quality (starch content,%) from GLOB1913H on potatoes under weed free conditions – North-East EPPO zone**

KCP	Crop Variety	Rating Date	Rating Type	UNTREATED			GLOB1913H	Boxer/Roxy/Fidox	GLOB1913H	Boxer/Fidox						
				absolute value	%control	SNK	900 g/L EC 4.4 L/ha 3960 g a.s./ha	800 g/L EC 5 L/ha 4000 g a.s./ha	900 g/L EC 8.8 L/ha 7920 g a.s./ha	800 g/L EC 10 L/ha 8000 g a.s./ha						
KCP 6.4-194	Dali	26/11/20	STACON	10.03	100	-	101.39	-	100.51	-	101.51	-	Boxer			
KCP 6.4-196	Kuras	29/10/20	STACON	15.78	100	-	100.89	-	103.43	-	100.97	-	Boxer			
KCP 6.4-192	Boryna	16/10/20	STACON	20.78	100	b	114.05	a	103.01	b	Boxer 800 EC	93.92	b	99.15	b	Boxer

EPPO zone	Nb. trials	Grouping	Assessment type (unit)	Absolut value in the untreated control			Yield at 1N as % of untreated						Yield at 2N rate as % of untreated					
							GLOB1913H at 4.4 L/ha			Boxer/Roxy/Defi /Filon/Fidox at 5 L/ha			GLOB1913H at 8.8 L/ha			Boxer/Fidox at 10 L/ha		

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				Mean	Min &	Max	Mean	Min &	Max	Mean	Min &	Max	Mean	Min &	Max	Mean	Min &	Max
NE	1	All	STACON (%)	20.8	20.8	20.8	114.1	114.1	114.1	103.0	103.0	103.0	93.9	93.9	93.9	99.2	99.2	99.2
<b>Means valid for Poland (when available, CZ and DE trials included in mean calculation)</b>																		
NE (+CZ,DE)	3	All	STACON (%)	15.5	10.0	20.8	105.4	100.9	114.1	102.2	100.3	103.4	98.5	93.9	101.0	100.5	99.2	101.5

**Table 0-161: Impact on quality (grading classes 1-3, absolute %) from GLOB1913H on potatoes under weed free conditions – North-East EPPO zone**

KCP	Crop Variety	Rating Date	Rating Type	UNTREATED			GLOB1913H	Boxer/Roxy/Fidox	GLOB1913H	Boxer/Fidox		
				absolute value	%control	SNK	900 g/L EC 4.4 L/ha 3960 g a.s./ha	800 g/L EC 5 L/ha 4000 g a.s./ha	900 g/L EC 8.8 L/ha 7920 g a.s./ha	800 g/L EC 10 L/ha 8000 g a.s./ha		
KCP 6.4-194	Dali	07/10/20	COMPR1	7.53		cde	7.2 de	9.21 bc	Boxer	8.26 b-e	6.49 e	Boxer
			COMPR2	68.85		-	68.73 -	67.93 -	Boxer	72.24 -	73.04 -	Boxer
			COMPR3	23.62		-	24.07 -	22.86 -	Boxer	19.5 -	20.48 -	Boxer
KCP 6.4-195	Antonia	01/10/20	COMPR1	42		-	47.82 -	47.45 -	Boxer	48.58 -	47.05 -	Boxer
			COMPR2	53.8		-	49.39 -	48.79 -	Boxer	47.58 -	47.96 -	Boxer
			COMPR3	4.2		-	2.8 -	3.77 -	Boxer	3.85 -	5 -	Boxer
KCP 6.4-196	Kuras	29/10/20	COMPR1	13.85		-	12.8 -	12.78 -	Boxer	12.03 -	13.13 -	Boxer
			COMPR2	38.03		-	40.5 -	35.73 -	Boxer	39.45 -	40.3 -	Boxer
			COMPR3	48.13		-	46.73 -	51.48 -	Boxer	48.5 -	46.58 -	Boxer
KCP 6.4-197	Goldmarie	21/10/20	COMPR1	8.92		-	8.58 -	10.34 -	Boxer	11.15 -	11.69 -	Boxer
			COMPR2	90.83		-	90.27 -	88.21 -	Boxer	86.83 -	87.37 -	Boxer
			COMPR3	0.25		-	1.14 -	1.44 -	Boxer	2.02 -	0.93 -	Boxer
KCP 6.4-192	Boryna	08/10/20	COMPR1	6.63		-	7.91 -	8.26 -	Boxer 800 EC	7.78 -	8.77 -	Boxer
			COMPR2	62.26		-	60.06 -	61.96 -	Boxer 800 EC	60.37 -	61.56 -	Boxer
			COMPR3	31.11		-	32.04 -	29.78 -	Boxer 800 EC	31.85 -	29.66 -	Boxer
KCP 6.4-193	Lady Claire	15/09/20	COMPR1	16.49		-	10.16 -	23.31 -	Boxer 800 EC	20.89 -	14.44 -	Boxer
			COMPR2	68.17		b	79.84 a	67.23 b	Boxer 800 EC	66.63 b	73.58 ab	Boxer
			COMPR3	15.34		-	10 -	9.47 -	Boxer 800 EC	12.49 -	11.98 -	Boxer

EPPO zone	Nb. trials	Grouping	Assessment type (unit)	Absolut value in the untreated control			Yield at 1N as % of all classes						Yield at 2N rate as % of all classes					
							GLOB1913H at 4.4 L/ha			Boxer/Roxy/Defi /Filon/Fidox at 5 L/ha			GLOB1913H at 8.8 L/ha			Boxer/Fidox at 10 L/ha		
				Mean	Min &	Max	Mean	Min &	Max	Mean	Min &	Max	Mean	Min &	Max	Mean	Min &	Max
NE	2	All	COMPR1 (%abs)	11.6	6.6	16.5	9.0	7.9	10.2	15.8	8.3	23.3	14.3	7.8	20.9	11.6	8.8	14.4
NE	2	All	COMPR2 (%abs)	65.2	62.3	68.2	70.0	60.1	79.8	64.6	62.0	67.2	63.5	60.4	66.6	67.6	61.6	73.6

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NE	2	All	COMPR3 (%abs)	23.2	15.3	31.1	21.0	10.0	32.0	19.6	9.5	29.8	22.2	12.5	31.9	20.8	12.0	29.7
<b>Means valid for Poland (when available, CZ and DE trials included in mean calculation)</b>																		
NE (+CZ,DE)	6	All	COMPR1 (%abs)	15.9	6.6	42.0	15.7	7.2	47.8	18.6	8.3	47.5	18.1	7.8	48.6	16.9	6.5	47.1
NE (+CZ,DE)	6	All	COMPR2 (%abs)	63.7	38.0	90.8	64.8	40.5	90.3	61.6	35.7	88.2	62.2	39.5	86.8	64.0	40.3	87.4
NE (+CZ,DE)	6	All	COMPR3 (%abs)	20.4	0.3	48.1	19.5	1.1	46.7	19.8	1.4	51.5	19.7	2.0	48.5	19.1	0.9	46.6

### **South-East EPPO Zone**

A total of 3 trials were carried out during 2020 in Hungary. Quality data are summarized in Table 0-162, Table 0-163 and Table 0-164.

Regarding the number of malformed tubers and starch content, the trials revealed no negative impact. Also the grading distribution revealed no negative impact, with most of the tubers falling in the higher grading class. In only one trial, plots treated with the reference product had a significant difference compared to untreated plots, but it was a positive difference, with a reduction of small tubers. No negative impact was noticed from GLOB1913H.

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### Detailed quality data - South-East EPPO Zone

**Table 0-162: Impact on quality (number of malformed tubers per plot) from GLOB1913H on potatoes under weed free conditions – South-East EPPO zone**

KCP	Crop Variety	Rating Date	Rating Type	UNTREATED			GLOB1913H 900 g/L EC 4.4 L/ha 3960 g a.s./ha	Boxer/Roxy/Fidox 800 g/L EC 5 L/ha 4000 g a.s./ha	GLOB1913H 900 g/L EC 8.8 L/ha 7920 g a.s./ha	Boxer/Fidox 800 g/L EC 10 L/ha 8000 g a.s./ha
				absolute value	%control	SNK				
KCP 6.4-199	Red Scarlett	04/09/20	MAMDEF	15.25	100	-	100.16	-	81.47	-
KCP 6.4-200	Red Scarlet	30/07/20	MAMDEF	0	100	-	100	-	100	-
KCP 6.4-201	Desiree	07/09/20	MAMDEF	76.75	100	-	100.25	-	93.43	-

EPPO zone	Nb. trials	Grouping	Assessment type (unit)	Absolut value in the untreated control			Yield at 1N as % of untreated						Yield at 2N rate as % of untreated					
							GLOB1913H at 4.4 L/ha			Boxer/Roxy/Defi /Filon/Fidox at 5 L/ha			GLOB1913H at 8.8 L/ha			Boxer/Fidox at 10 L/ha		
				Mean	Min &	Max	Mean	Min &	Max	Mean	Min &	Max	Mean	Min &	Max	Mean	Min &	Max
SE	3	All	MAMDEF (nb/plot)	30.7	0.0	76.8	100.1	100.0	100.3	91.6	81.5	100.0	96.4	91.2	100.0	106.5	100.0	115.7

**Table 0-163: Impact on quality (starch content,%) from GLOB1913H on potatoes under weed free conditions – South -East EPPO zone**

KCP	Crop Variety	Rating Date	Rating Type	UNTREATED			GLOB1913H 900 g/L EC 4.4 L/ha 3960 g a.s./ha	Boxer/Roxy/Fidox 800 g/L EC 5 L/ha 4000 g a.s./ha	GLOB1913H 900 g/L EC 8.8 L/ha 7920 g a.s./ha	Boxer/Fidox 800 g/L EC 10 L/ha 8000 g a.s./ha
				absolute value	%control	SNK				
KCP 6.4-199	Red Scarlett	21/09/20	STACON	9.48	100	-	92.99	-	106.19	-
KCP 6.4-201	Desiree	07/09/20	STACON	11.38	100		101.73		99.98	

EPPO zone	Nb. trials	Grouping	Assessment type (unit)	Absolut value in the untreated control			Yield at 1N as % of untreated						Yield at 2N rate as % of untreated					
							GLOB1913H at 4.4 L/ha			Boxer/Roxy/Defi /Filon/Fidox at 5 L/ha			GLOB1913H at 8.8 L/ha			Boxer/Fidox at 10 L/ha		
				Mean	Min &	Max	Mean	Min &	Max	Mean	Min &	Max	Mean	Min &	Max	Mean	Min &	Max
SE	2	All	STACON (%)	10.4	9.5	11.4	97.4	93.0	101.7	103.1	100.0	106.2	98.4	96.5	100.3	106.0	103.8	108.3

GLOB1913H

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**Table 0-164: Impact on quality (grading classes 1-3, absolute %) from GLOB1913H on potatoes under weed free conditions – South -East EPPO zone**

KCP	Crop Variety	Rating Date	Rating Type	UNTREATED			GLOB1913H 900 g/L EC 4.4 L/ha 3960 g a.s./ha	Boxer/Roxy/Fidox 800 g/L EC 5 L/ha 4000 g a.s./ha	GLOB1913H 900 g/L EC 8.8 L/ha 7920 g a.s./ha	Boxer/Fidox 800 g/L EC 10 L/ha 8000 g a.s./ha
				absolute value	%control	SNK				
KCP 6.4-199	Red Scarlett	04/09/20	COMPR1	29.28	-		24.65 -	26.1 - Fidox 800 EC	27.3 -	26.73 - Fidox
			COMPR2	34.98	-		40.2 -	36.3 - Fidox 800 EC	40.93 -	40.68 - Fidox
			COMPR3	35.75	-		35.15 -	37.65 - Fidox 800 EC	31.78 -	32.63 - Fidox
KCP 6.4-200	Red Scarlet	30/07/20	COMPR1	32.8	ab		33.38 ab	13.9 b Fidox 800 EC	33.13 ab	24.35 ab Fidox
			COMPR2	40.53	-		41.98 -	42.68 - Fidox 800 EC	37.83 -	38.15 - Fidox
			COMPR3	26.68	-		24.65 -	43.4 - Fidox 800 EC	29.08 -	37.53 - Fidox
KCP 6.4-201	Desiree	07/09/20	COMPR3	48.47			56.3	57.46 Fidox 800 EC	55.77	51.89 Fidox
			COMPR2	29.86			24.63	25.03 Fidox 800 EC	25.16	27.3 Fidox
			COMPR1	21.67			19.07	17.52 Fidox 800 EC	19.08	20.81 Fidox

EPPO zone	Nb. trials	Grouping	Assessment type (unit)	Absolut value in the untreated control			Yield at 1N as % of untreated						Yield at 2N rate as % of untreated					
							GLOB1913H at 4.4 L/ha			Boxer/Roxy/Defi /Filon/Fidox at 5 L/ha			GLOB1913H at 8.8 L/ha			Boxer/Fidox at 10 L/ha		
							Mean	Min &	Max	Mean	Min &	Max	Mean	Min &	Max	Mean	Min &	Max
SE	3	All	COMPR1 (%abs)	27.9	21.7	32.8	25.7	19.1	33.4	19.2	13.9	26.1	26.5	19.1	33.1	24.0	20.8	26.7
SE	3	All	COMPR2 (%abs)	35.1	29.9	40.5	35.6	24.6	42.0	34.7	25.0	42.7	34.6	25.2	40.9	35.4	27.3	40.7
SE	3	All	COMPR3 (%abs)	37.0	26.7	48.5	38.7	24.7	56.3	46.2	37.7	57.5	38.9	29.1	55.8	40.7	32.6	51.9

### **Mediterranean EPPO Zone**

A total of 2 trials were carried out during 2021 in Italy. Quality data are summarized in Table 0-165 and Table 0-166.

Regarding the number of malformed tubers, the trials revealed no negative impact. Also the grading distribution revealed no negative impact, with most of the tubers falling in the smallest grading class. No statistical differences were observed in any parameter.

GLOBAL1913H

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### Detailed quality data - Mediterranean EPPO Zone

**Table 0-165: Impact on quality (number of malformed tubers per plot) from GLOBAL1913H on potatoes under weed free conditions – Mediterranean EPPO zone**

KCP	Crop Variety	Rating Date	Rating Type	UNTREATED			GLOBAL1913H 900 g/L EC 4.4 L/ha 3960 g a.s./ha	Boxer/Roxy/Fidox 800 g/L EC 5 L/ha 4000 g a.s./ha			GLOBAL1913H 900 g/L EC 8.8 L/ha 7920 g a.s./ha	Boxer/Fidox 800 g/L EC 10 L/ha 8000 g a.s./ha		
				absolute value	%control	SNK								
KCP 6.4-202	Agria	10/09/2021	MAMDEF	84.75	100		113.53 -	124.01 -	Roxy 800 EC		93.71 -	113.04 -	Roxy 800 EC	
KCP 6.4-203	Monalisa	27/08/2021	MAMDEF	80.25	100		83.54 -	99.15 -	Roxy 800 EC		90.19 -	94.99 -	Roxy 800 EC	

EPPO zone	Nb. trials	Grouping	Assessment type (unit)	Absolut value in the untreated control			Yield at 1N as % of untreated						Yield at 2N rate as % of untreated					
							GLOBAL1913H at 4.4 L/ha			Boxer/Roxy/Defi /Filon/Fidox at 5 L/ha			GLOBAL1913H at 8.8 L/ha			Boxer/Fidox at 10 L/ha		
				Mean	Min &	Max	Mean	Min &	Max	Mean	Min &	Max	Mean	Min &	Max	Mean	Min &	Max
MED	2	All	MAMDEF (nb/plot)	82.5	80.3	84.8	98.5	83.5	113.5	111.6	99.2	124.0	92.0	90.2	93.7	104.0	95.0	113.0

**Table 0-166: Impact on quality (grading classes 1-3, absolute %) from GLOBAL1913H on potatoes under weed free conditions – Mediterranean EPPO zone**

KCP	Crop Variety	Rating Date	Rating Type	UNTREATED			GLOBAL1913H 900 g/L EC 4.4 L/ha 3960 g a.s./ha	Roxy 800 g/L EC 5 L/ha 4000 g a.s./ha			GLOBAL1913H 900 g/L EC 8.8 L/ha 7920 g a.s./ha	Roxy 800 g/L EC 10 L/ha 8000 g a.s./ha		
				absolute value	%control	SNK								
KCP 6.4-202	Agria	10/09/2021	COMPR1	37.58			44.88 -	48.58 -	Roxy 800 EC		39.08 -	45.2 -	Roxy 800 EC	
			COMPR2	29.88			31.7 -	25.25 -	Roxy 800 EC		26.2 -	27 -	Roxy 800 EC	
			COMPR3	27.85			17.33 -	18.8 -	Roxy 800 EC		27.4 -	20.68 -	Roxy 800 EC	
KCP 6.4-203	Monalisa	27/08/2021	COMPR1	49.52			44.54 -	48.61 -	Roxy 800 EC		54.17 -	44.98 -	Roxy 800 EC	
			COMPR2	25.81			31.9 -	21.1 -	Roxy 800 EC		23.5 -	27.45 -	Roxy 800 EC	
			COMPR3	24.67			23.56 -	30.29 -	Roxy 800 EC		22.32 -	27.57 -	Roxy 800 EC	

EPPO zone	Nb. trials	Grouping	Assessment type (unit)	Absolut value in the untreated control			Yield at 1N as % of untreated						Yield at 2N rate as % of untreated					
							GLOBAL1913H at 4.4 L/ha			Roxy at 5 L/ha			GLOBAL1913H at 8.8 L/ha			Roxy at 10 L/ha		
				Mean	Min &	Max	Mean	Min &	Max	Mean	Min &	Max	Mean	Min &	Max	Mean	Min &	Max

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MED	2	All	COMPR1 (%abs)	43.6	37.6	49.5	44.7	44.5	44.9	48.6	48.6	48.6	46.6	39.1	54.2	45.1	45.0	45.2
MED	2	All	COMPR2 (%abs)	27.8	25.8	29.9	31.8	31.7	31.9	23.2	21.1	25.3	24.9	23.5	26.2	27.2	27.0	27.5
MED	2	All	COMPR3 (%abs)	26.3	24.7	27.9	20.4	17.3	23.6	24.5	18.8	30.3	24.9	22.3	27.4	24.1	20.7	27.6

Comments of zRMS:	<p><b>Cereals</b></p> <p>In the trials in cereals, the yield quality parameters HLW (kg per 100 L) and the weight of 1000 kernels (TKW) were measured in trials. Across all application timings, no or very small effects on quality were revealed for GLOB1913H at full-label rate or double-label rate across winter wheat, winter durum wheat, winter barley, winter rye and winter triticale.</p> <p><b>Potatoes</b></p> <p>Quality of the harvested potato crop following application of GLOB1913H was assessed as follows content of starch in tubers and number of malformed tubers per plot. For starch content, 3 trials conducted in the maritime and northern-east zones showed no negative effect on potato quality. Grading distribution also showed no negative effect, with the majority of tubers falling in the medium grading class, with very similar proportions. No consistent treatment-related effects were observed for the quality parameter of the number of malformed tubers that were measured. However, no statistical differences could be attributed. Southern-east trials showed no negative impact as some malformed tubers and starch content. Also, the grading distribution revealed no negative impact, with most of the tubers falling in the higher grading class.</p>
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### 3.3.4 Effects on transformation processes (KCP 6.4.4)

According to EPPO PP1/243 “*Effects of plant protection products on transformation processes*”, wheat and barley are crops used for industrial processes (such as bread making or brewing). On the other hand, potatoes usually do not follow transformation processes depending on biological activity.

GLOB1913H is a formulated product based on an active substance already authorised in EU and used since a long time in straight formulations or in mixture with other a.s., with no negative effects known on transformation processes on the target crops. Additionally, no significant residues are found at harvest (<0.05 mg/kg). Therefore, according to EPPO guideline PP 1/243, no further data is deemed to be necessary. A safe use of GLOB1913H can be considered for crops involved on transformation processes.

Comments of zRMS:	No data concerning effects on the processing procedure were presented. The case presented by the applicant is acceptable and no further data are required.
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### 3.3.5 Impact on treated plants or plant products to be used for propagation (KCP 6.4.5)

According to EPPO guideline PP 1/135 “*Phytotoxicity assessment*”, trials on plants or plant products to be used for propagation would be required in case of post-emergence of the crop when application is made at or after inflorescence initiation e.g. for cereals when the first node is detectable (BBCH 30) or where detectable residues occur in harvested seed.

Taking into account that GLOB1913H is applied in early stages of the crop (significantly before tillering) and its selectivity towards target cereal crops demonstrated in this dossier, no negative effects on seed germination is to be expected. A safe use of GLOB1913H can be considered for plant products to be used for propagation with no further data.

### Summary and conclusion

GLOB1913H is a formulated product based on prosulfocarb, an active substances already used in straight formulations and/or in mixtures with other a.s. and authorised in EU, with no negative effects known. Enough data to study the adverse effects on treated crops of GLOB1913H has been submitted and demonstrate the safe use of GLOB1913H at target rates on winter cereals, with the absence of negative effects on treated crops.

Comments of zRMS:	According to the EPPO decision scheme in EPPO 1/135(3) data are not required in cereals and potatoes since applications will be made prior to seed formation. The case presented by the applicant is acceptable and no further data are required.
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### 3.4 Observations on other undesirable or unintended side-effects (KCP 6.5)

#### 3.4.1 Impact on succeeding crops (KCP 6.5.1)

The impact on succeeding crops is calculated in accordance with the EPPO 1/207(2) - Effects on succeeding crops by comparing the PEC<sub>soil</sub> values to the ER<sub>10</sub> values from the seedling emergence study (KCP 6.5.1-1).

The seedling emergence study was performed with GLOB1913H in a worst-case scenario. In this seedling emergence study of non-target plants 6 different crops are tested. The following results were obtained:

**Table 3.4-1: Results of the study based on shoot fresh weight reduction**

Family	Species	ER <sub>10</sub> (mg product /kg of soil)	ER <sub>20</sub> (mg product /kg of soil)	ER <sub>50</sub> (mg product /kg of soil)	R-Sq.	NOEC (mg product /kg of soil)	LOEC (mg product /kg of soil)
Brassicaceae	<i>Sinapis alba</i>	325	431	741	0.976	222	667
Fabaceae	<i>Pisum sativum</i>	538	856	2078	0.978	667	2000
Amaranthaceae	<i>Beta vulgaris</i>	393	572	1175	0.916	667	2000
Linaceae	<i>Linum usitatissimum</i>	n.d.	n.d.	n.d.	n.d.	>667	>667
Poaceae	<i>Triticum aestivum</i>	1046	1451	2117	0.966	667	2000
Poaceae	<i>Zea mays</i>	n.d.	n.d.	n.d.	n.d.	>54000	>54000

The most sensitive species in terms of fresh weight was *Sinapis alba* (white mustard) with ER<sub>10</sub> value of 325 mg product/kg soil and a NOEC value of 222 mg product/kg.

#### Calculation of the PEC<sub>soil</sub> for the intended use of GLOB1913H

The initial and actual PEC<sub>soil</sub> are calculated with equation 1 and 2 respectively:

**PEC<sub>initial</sub>**

$$PEC_{ini} = \frac{A \cdot (1 - f_{int})}{100 \cdot d \cdot bd} \quad (1)$$

where

$A$  = application rate [g/ha]  
 $f_{int}$  = fraction intercepted by plant cover  
 $d$  = depth of the soil layer [cm]  
 $bd$  = bulk soil density [g/cm<sup>3</sup>]

**PEC<sub>actual</sub>**

$$PEC_{act}(t) = PEC_{ini} \cdot e^{-kt} = PEC_{ini} \cdot e^{-\frac{t \cdot \ln 2}{DT50}} \quad (2)$$

PEC<sub>ini</sub> was calculated for a dose rate of 4.4 L/ha of GLOB1913H (for a total amount of 3960 g a.s./ha) and considering the absence of crop interception as in the worst case of pre-emergence applications on potato, in accordance with the GAP in Central and South regulatory zones. The soil bulk density was set to 1.5 g/cm<sup>3</sup>. The depth of soil layer used was the standard 5 cm but also 20 cm in order to account for a tillage depth of 20 cm before planting the succeeding crop in accordance with the cultivation methods.

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For the calculation of the  $PEC_{act}$ , the DT50 for prosulfocarb was set at 13 days.  
The  $PEC_{soil}$  values over time for a pre-emergence application of GLOB1913H are shown in

**Table 3.4-2:  $PEC_{soil}$  calculations for 4.4 L/ha of GLOB1913H**

Days after application	GLOB1913H (mg ai/kg soil)	
	$PEC_{soil}$ 5 cm	$PEC_{soil}$ 20 cm
0 (initial)	5.2800	1.3200
1	5.0058	1.2515
2	4.7459	1.1865
4	4.2659	1.0665
7	3.6353	0.9088
14	2.5029	0.6257
21	1.7233	0.4308
32	0.9586	0.2396
50	0.3671	0.0918
60	0.2154	0.0539
70	0.1264	0.0316
80	0.0742	0.0185
90	0.0435	0.0109
100	0.0255	0.0064
365 (1 yr)	0.0000	0.0000

**Calculation of the TER for the intended use of GLOB1913H**

The  $ER_{10}$  was first converted from mg product/kg of soil into mg ai/kg soil and then divided by the  $PEC_{soil}$  at different timings for each possible following crop. The TER should be equal or higher as 1 in order to show an acceptable risk. The  $ER_{10}$  values of the seedling emergence study are presented above in Table 3.5-1 based on shoot fresh weight reduction. Several species were tested representing plant families likely to be sown in case of crop failure. The TER calculations are presented in the table below. As the use has demonstrated to be safe at a 5cm depth, no TER calculation is presented for soil cultivation at 20cm.

**Table 3.4-3:  $PEC$ -values and TER-calculation of GLOB1913H based on EC10-values.**

Days after application	GLOB1913H		Succeeding crop(1)					
			TER(4)					
	$PEC(2)$ mg ai/kg soil 5 cm	$PEC(3)$ mg ai/kg soil 20 cm	EC10/ $PEC$ product 5 cm					
			<i>Sinapis alba</i>	<i>Pisum sativum</i>	<i>Beta vulgaris</i>	<i>Linum usitatissimum</i>	<i>Triticum aestivum</i>	<i>Zea mays</i>
0 (initial)	5.2800	1.3200	55.3977	91.7045	66.9886	113.6932	178.2955	9204.5455
1	5.0058	1.2515	58.4316	96.7268	70.6573	119.9197	188.0600	9708.6423
2	4.7459	1.1865	61.6317	102.0242	74.5270	126.4872	198.3593	10240.3465
4	4.2659	1.0665	68.5672	113.5051	82.9136	140.7210	220.6810	11392.7079
7	3.6353	0.9088	80.4609	133.1938	97.2958	165.1306	258.9604	13368.8922
14	2.5029	0.6257	116.8633	193.4537	141.3147	239.8394	376.1200	19417.2846
21	1.7233	0.4308	169.7349	280.9766	205.2487	348.3483	546.2853	28202.1079

<sup>1</sup> possible following crops in a regular crop rotation; <sup>2</sup>  $PEC$  (soil depth 5 cm); <sup>3</sup>  $PEC$  (soil depth 20 cm); <sup>4</sup> TER (soil depth 5 cm)

It can be seen from the above table that all crops can be sown immediately after application of GLOB1913H, even without soil cultivation.

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### **Summary and conclusion on the Impact on succeeding crops**

Prosulfocarb, the a.s. contained on GLOB1913H is a known active ingredient already authorised in many countries. Restrictions on rotational crops are also well-known. The formulation GLOB1913H demonstrated to be safe for all succeeding crops and justify no label restrictions.

Comments of zRMS:	Long-term experience from commercial application confirmed that GLOB1913H is safe to any rotational crop following the target crops.
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### 3.4.2 Impact on other plants including adjacent crops (KCP 6.5.2)

The impact on adjacent crops is calculated in accordance with the EPPO 1/256(1) – Effects on adjacent crops by comparing the drift rates to the lowest EC<sub>50</sub> from the vegetative vigour study (KCP 10.6), discussed in Section B9 Ecotoxicology.

In the mentioned study, the test species consisted of four dicotyledonous and two monocotyledonous species were tested, representing five plant families: *Brassica napus*, *Phaseolus vulgaris*, *Daucus carota*, *Amaranthus retroflexus*, *Avena sativa* and *Lolium perenne*.

Based on shoot fresh weight, the most sensitive species was the monocotyledon *Lolium perenne*, with an ER<sub>50</sub> value of 3749 mL GLOB1913H/ha. All other species had ER<sub>50</sub> values above the maximum rate of 4400 mL/ha. From the seedling emergence study *Lolium perenne* was also the most sensitive species with ER<sub>50</sub> = 72.7 mL/ha. This last value was then taken into account for the TER calculations.

**Table 3.4-4: ED<sub>50</sub>-values (mg/ha) of different test plants**

Test plant Scientific name (Common name)	Exposure System	Results	Reference
<i>Brassica napus</i> (oilseed rape) <sub>d</sub> <sup>1)</sup> <i>Phaseolus vulgaris</i> (French bean) <sub>d</sub> <sup>2)</sup> <i>Daucus carota</i> (carrot) <sub>d</sub> <sup>3)</sup> <i>Solanum lycopersicum</i> (tomato) <sub>d</sub> <sup>4)</sup> <i>Echinochloa crus-galli</i> (cockspur grass) <sub>m</sub> <sup>5)</sup> <i>Lolium perenne</i> (perennial ryegrass) <sub>m</sub> <sup>6)</sup>	21 d Seedling emergence	<sup>1)</sup> ER <sub>50</sub> = 1127 mL/ha <sup>2)</sup> ER <sub>50</sub> > 4400 mL/ha <sup>3)</sup> ER <sub>50</sub> > 1467 mL/ha <sup>4)</sup> ER <sub>50</sub> > 1325 mL/ha <sup>5)</sup> ER <sub>50</sub> = 960 mL/ha <sup>6)</sup> ER <sub>50</sub> = 72.7 mL/ha	Bützler R., 2021a
<i>Brassica napus</i> (oilseed rape) <sub>d</sub> <sup>1)</sup> <i>Phaseolus vulgaris</i> (French bean) <sub>d</sub> <sup>2)</sup> <i>Daucus carota</i> (carrot) <sub>d</sub> <sup>3)</sup> <i>Amaranthus retroflexus</i> (red-root amaranth) <sub>d</sub> <sup>4)</sup> <i>Avena sativa</i> (oat) <sub>m</sub> <sup>5)</sup> <i>Lolium perenne</i> (perennial ryegrass) <sub>m</sub> <sup>6)</sup>	21 d Vegetative vigour	<sup>1)</sup> ER <sub>50</sub> > 4400 mL/ha <sup>2)</sup> ER <sub>50</sub> > 4400 mL/ha <sup>3)</sup> ER <sub>50</sub> > 4400 mL/ha <sup>4)</sup> ER <sub>50</sub> > 4400 mL/ha <sup>5)</sup> ER <sub>50</sub> > 4400 mL/ha <sup>6)</sup> ER <sub>50</sub> = 3749 mL/ha	Bützler R., 2021b

m: monocotyledonous; d: dicotyledonous

Since prosulfocarb is volatile, dry deposition at the edge of the field was included in the calculation of the PER calculations using deposition rates calculated with the UBA tool EVA 3.0 rev2h (see table below). These deposition rates were converted to mL product/ha and added to the PER<sub>off-field</sub> that was calculated based on the application rate and the drift rate.

**Table 3.4-5: Dry deposition rates for prosulfocarb (from EVA 3.0 rev2h)**

Application pattern	Spray drift scenario/interception	Time after application (hours)	Deposition rates (g/ha)				
			1 m	3 m	5 m	10 m	20 m
Target rates in Central and South zones							
1 x 3960 g a.s./ha	Arable crops/0%	0-24	0.2910	0.2613*	0.2340	0.1782	0.1034
1 x 3600 g a.s./ha	Arable crops/0%	0-24	0.2645	0.2375	0.2128	0.1620	0.0940

\*intrapolated

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**Table 3.4-6: TER calculation for non-target plants due to the use of GLOB1913H in winter cereals and potato**

<b>Intended use</b>		Potato		
<b>Active substance/product</b>		GLOB1913H		
<b>Application rate (mL/ha)</b>		1 × 4400 (max. rate in Central and South zones)		
<b>MAF</b>		-		
<b>Test species</b>	<b>ER<sub>50</sub> (mL/ha)</b>	<b>Drift rate</b>	<b>PER<sub>off-field</sub>*</b> (mL/ha)	<b>TER criterion: TER ≥ 5</b>
<i>Lolium perenne</i>	72.7	2.77%	122.2 (=121.88 + 0.291)	<b>0.60</b>
<b>Intended use</b>		Winter cereals (pre + post-emergence)		
<b>Active substance/product</b>		GLOB1913H		
<b>Application rate (mL/ha)</b>		1 × 4000 (max. rate in Central and South zones)		
<b>MAF</b>		-		
<b>Test species</b>	<b>ER<sub>50</sub> (mL/ha)</b>	<b>Drift rate</b>	<b>PER<sub>off-field</sub>*</b> (mL/ha)	<b>TER criterion: TER ≥ 5</b>
<i>Lolium perenne</i>	72.7	2.77%	111.1 (=110.8 + 0.265)	<b>0.65</b>

MAF: Multiple application factor; PER: Predicted environmental rate; TER: toxicity to exposure ratio. TER values shown in bold fall below the relevant trigger.

\*including dry deposition

It can be seen from the above table that the trigger value for the TER based on the worst case ER<sub>50</sub> was not reached.

In order to reduce the off-field exposure, a following step was undertaken in the risk assessment. The results of the risk assessment using typical mitigation measures (no-spray buffer zones of 5 or 10m; drift-reducing nozzles with reduction by 50%, 75%, or 90%) are summarised in the following table.

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**Table 3.4-7: Risk assessment for non-target terrestrial plants due to the use of GLOB1913H in winter cereals and potato considering risk mitigation (in-field no-spray buffer zones, and drift-reducing nozzles)**

<b>Intended use</b>		Potato			
<b>Active substance/product</b>		GLOB1913H			
<b>Application rate (mL/ha)</b>		1 × 4400			
<b>MAF</b>		-			
<b>Buffer strip</b>	<b>Drift rate</b>	<b>PER<sub>off-field</sub></b>	<b>PER<sub>off-field</sub></b>	<b>PER<sub>off-field</sub></b>	<b>PER<sub>off-field</sub></b>
1	2.77	122.2	61.1	30.5	12.2
3	1	44.26	22.1	11.1	4.43
5	0.57	25.3	12.7	6.33	2.53
10	0.29	12.9	6.48	3.23	1.29
<b>Toxicity value</b>		<b>TER</b>			
ER <sub>50</sub> = 72.7 mL/ha		<b>criterion: TER ≥ 5</b>			
1		<b>0.60</b>	<b>1.19</b>	<b>2.38</b>	5.95
3		<b>1.64</b>	<b>3.29</b>	6.57	-
5		<b>2.87</b>	5.74	-	-
10		5.62	-	-	-
<b>Intended use</b>		Winter cereals (pre + post-emergence)			
<b>Active substance/product</b>		GLOB1913H			
<b>Application rate (mL/ha)</b>		1 × 4000			
<b>MAF</b>		-			
<b>Buffer strip</b>	<b>Drift rate</b>	<b>PER<sub>off-field</sub></b>	<b>PER<sub>off-field</sub></b>	<b>PER<sub>off-field</sub></b>	<b>PER<sub>off-field</sub></b>
1	2.77	111.1	55.5	27.8	11.1
3	1	44.3	20.12	10.06	4.02
5	0.57	25.3	11.51	5.75	2.30
10	0.29	12.9	5.88	2.94	1.18
<b>Toxicity value</b>		<b>TER</b>			
ER <sub>50</sub> = 72.7 mL/ha		<b>criterion: TER ≥ 5</b>			
1		<b>0.65</b>	<b>1.31</b>	<b>2.62</b>	6.55
3		<b>1.81</b>	<b>3.61</b>	7.23	-
5		<b>3.16</b>	6.32	-	-
10		6.18	-	-	-

MAF: Multiple application factor; PER: Predicted environmental rates; TER: toxicity to exposure ratio. Criteria values shown in bold breach the relevant trigger.

### Summary and conclusion on the Impact on other plants including adjacent crops

According to the intended GAP, a buffer zone of 1 m in combination with 90% drift reducing techniques or a buffer zone of 3 m in combination with 75% drift reducing techniques or a buffer zone of 5 m in combination with 50% drift reducing techniques or a buffer zone of 10 m without drift reduction is needed to protect non-target plants after application of GLOB1913H according to the intended use.

Comments of zRMS:	<p>The effects of GLOB1913H on adjacent crops were evaluated according to EPPO Standard PP1/256 ‘Effects on adjacent crops’. ED<sub>50</sub> values were calculated. The most sensitive species in pre- and post-emergence was <i>Lolium perenne</i> with an ER<sub>50</sub> of 72.7 mL/ha and 3749 mL/ha, respectively.</p> <p>A buffer zone of 1 m in combination with 90% drift reducing techniques, a buffer zone of 3 m in combination with 75% drift reducing techniques, a buffer zone of 5 m in combination with 50% drift reducing techniques or a buffer zone of 10 m without drift reduction is needed to protect non-target plants after application of GLOB1913H.</p>
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### Tank cleaning

To confirm the safe use of GLOB1913H on the following applications, the effectiveness of cleaning procedures was assessed in the storage stability study of GLOB1913H (Sowle J., 2020a, KCP 4.2).

A summary of the methodology and results is provided below:

1. A 8 L garden sprayer is filled up to top with GLOB1913H and water at the concentration of 4.4 L/100L. The sprayer is shaken well.
2. The content is then sprayed using a normal spraying action to simulate that used in the field until the sprayer is empty.
3. 400 mL tap water is then poured into the sprayer. The sprayer is then shaken several times before spraying the contents to waste.
4. The step 3 is repeated twice so that the sprayer has been rinsed three times.
5. 100 mL methanol is added to the sprayer which is then agitated to collect any remaining residue. The collected residue was assayed by HPLD-DAD.

After three tank washes with 400 mL water 0.0123% prosulfocarb residue remained in the tank. This demonstrates that only a very limited amount of residue remains in the spray tank after cleaning.

Based on the studies on non-target plants discussed in Section B9 of the Registration Report, it can be seen from the study on eedling emergence, that the worst case (lowest) cut-off value can be found in *Lolium perenne* (perennial ryegrass), namely a NOEC below the minimum amount of 18.1 ml GLOB1913H per ha.

Suppose a sprayer has a tank of 1000 L spray volume. The worst case dose rate (as used in the tank cleaning study) is 4.4 L GLOB1913H per ha. If applied in 200L, the tank can be filled to spray 5 ha and thus will contain 22 L of GLOB1913H.

After water rinsing, the highest residue remaining residue was 0.0123% or 2.706 ml GLOB1913H in the sprayer. Suppose, again as worst case approach, that after rinsing, an application is made to a new crop using the total capacity of 1000L per ha on the new crop, then 2.71 ml of GLOB1913H would be applied to one ha of that new crop.

This is much lower than the NOEC value of the most sensitive crop (*Lolium perenne*) and than the NOEC values of all other crops tested and thus it is clear that standard cleaning procedures are sufficient for GLOB1913H.

### **3.4.3 Effects on beneficial and other non-target organisms (KCP 6.5.3)**

Detailed studies on the possible adverse effects to beneficial organisms are submitted and summarised in Part B, Section 9 (Ecotoxicology).

Compatibility with current management practices including IPM

No trials were carried out.

### **3.5 Other/special studies**

No other studies were carried out.

### 3.6 List of test facilities including the corresponding certificates

**Table 3.6-1: List of test facilities**

Test facility	Address	Certificate (Yes or No)
Aarhus University	Technical Sciences, Department of Agroecology, Flakkebjerg, 4200 Slagelse, Denmark	Yes
AGRECO Sp. z o.o.	Gač 64A, 55-200 Olawa, Poland	Yes
Agrolab SE	Backgården, 241 93 Eslöv, Sweden	Yes
Agrolab A/S	Røjleskovvej 18, 5500 Middelfart (DK)	Yes
Agro Research Consulting	ul. Nadburzańska 32 99-400 Łowicz, Poland	Yes
Biochem agrar	Kupferstraße 6, 04827 Machern OT Gerichshain, Germany	Yes
Biotek Agriculture	Route de Vielaines 10120 Saint- Pouange, France	Yes
Biotek RO	Str Oituz 28/B, 310038 Arad, Romania	Yes
CPRP	Török Ignác u. 30, Szombathely, Hungary	Yes
Estonian Crop Research Institute	J. Aamisepa 1, Jõgeva 48309 Jõgeva maakond (EE)	Yes
Eurofins Agrosience Services sp. z o.o.	Kazmierz, Parkowa street 6 PL-64-530 Kazmierz, Poland	Yes
Fertico Sp. z o.o.	Goliany 43 05-620 Błędów, Poland	Yes
Field Research Support (PL)	Ul Dworcowa 2, Kościan-64-000, Poland	Yes
Field Research Support (DE)	Max-Planck-Straße 5, D – 31515 Wunstorf (DE)	Yes
GMW Biosciences	Sepes C/Jornalers 35, Alberic, Spain	Yes
HUSEC	Borgeby Slottsväg 11, 237 91 Bjärred, Denmark	Yes
Institute of Plant Protection - National Research Institute IOR Sosnowice	ul. Gliwicka 29, 44-153 Sosnowice, Poland	Yes
Latvian Plant Protection Research Centre (LAAPC)	Struktoru 14a, Rīga, LV 1039, Latvia	Yes
Plant-Art Research Kft.	Ébner György köz 4, 2040 Budaörs, Hungary	Yes
	1681 ND Zwaagdijk-Oost, the Netherlands	
Staphyt Poland	Ziębicka 2, Poznań-60-164	Yes
SynTech Research Poland Sp. z o.o.	ul. Jagiellońska 69/1, 85-027 Bydgoszcz, Poland	Yes
UP Poznan	Wojska Polskiego 28, 60-637 Poznań, Poland	Yes
UAB Agrolab Baltic	Mažeikių m. Taikos g. 4-3 Mažeikių r. sav., Lithuania	Yes
Verify / Proeftuin Zwaagdijk	Tolweg 13, 1681 Zwaagdijk-Oost, the Netherlands	Yes
ZS Kujavy	Kujavy 48, 742 44, Czech Republic	Yes
Agrartest	Palmbachstrasse 37 65326 Aarbergen-Panrod, Germany	Yes
Agricultural Research Institute Kromeriz (Zemědělský výzkumný ústav Kromeriz, s. r. o.)	Havlíčkova 2787/121 Kroměříž-767 01, Czech Republic	Yes
Field Research Support Germany	Max-Planck-Straße 5 D-31515 Wunstorf, Germany	Yes
Ing. Jitka Mareckova	Krasné Udolí 141, Touzim-364 01, Czech Republic	Yes
InTec Agro Trials, s.r.o.	Blatnická 179, 687 24 Uherský Ostroh (CZ)	Yes
Oxford Agricultural Trials Ltd.	West Farm Barn, Launton Rd, Stratton Audley, Bicester OX27 9AS, UK	Yes
Quintus GmbH	Liepen 7 Hohen Wangelin OT Liepen-17194, Germany	Yes
Staphyt France	23 route de Moeuvres Inchy en Artois - 62860, France	Yes
Staphyt Germany	Langenburger Str. 35 74572 Blaufelden, Germany	Yes
Zemservis Domaninek, zk. st. s.r.o.	K Záměcku 1231,	Yes

GLOB1913H  
Part B – Section 3  
Globachem NV/Central Zone

Test facility	Address	Certificate (Yes or No)
	Bystrice nad Pernštejnem-593 01, Czech Republic	
Zkusebni stanice Rymarov, s.r.o.	8.května 61 795 01 Rýmařov, Czech Republic	Yes
ZKUSEBNI STANICE TRUTNOV s.r.o.	Volanovska 409, Trutnov-541 01, Czech Republic	Yes
Agri 2000 Net S.r.l.	Via Marabini, 14/A Castel Maggiore (BO), Italy	Yes
AGRIGEOS srl	Via San Girolamo, 82 95024 – Acireale (CT), Italy	Yes
Pest Pro d.o.o.	Stjepana Gradica 5, Zagreb – 10010, Croatia	Yes
Promo-Vert France	Rue d'Aste Béon Serres-Castet-64121, France	Yes
Promo-Vert Italia	Via Marzabotto 51 48024-Massa Lombarda (RA), Italy	Yes
PROMOVERT CROP SERVICES, S.L.	P.I. PIBO, Avd. ESPARTINAS nº 35A 41110-Bollullos de la Mitación. Sevilla, Spain	Yes
SAGEA Centro di Saggio s.r.l.	Via San Sudario, 15 12050 Castagnito d'Alba (CN), Italy	Yes
Staphyt Spain	Calle Sevilla, 21, 41960 Gines, Sevilla, Spain	Yes
Staphyt Italia	via della Meccanica 28 04011, Aprilia (LT), Italy	Yes

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

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

<b>Data point</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Owner</b>
KCP 6.2	Roberta Kolberg	2022	Biological Assessment Dossier: GLOB1913H  Globachem NV	N	Globachem NV