Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products

PRODUCT ASSESSMENT REPORT OF A BIOCIDAL PRODUCT FAMILY FOR NATIONAL AUTHORISATION APPLICATIONS

(submitted by the evaluating Competent Authority)



[CHIMIGET_CYPER]

Product type(s) [18]

[Cypermethrin]

Case Number in R4BP: [BC-QY059576-88]

Evaluating Competent Authority: [FR CA]

Date: [03/05/2024]

Table of Contents

SION	-
1ENT REPORT	17
MARY OF THE PRODUCT ASSESSMENT	17
Administrative information	17
Identifier of the product family	17
Authorisation holder	
·	
· ·	
· · · · · · · · · · · · · · · · · · ·	
·	
, , , , , , , , , , , , , , , , , , , ,	
\sim	
·	
·	
	C 1
	21
i i i	
·	
	22
Where specific to the use, the conditions of storage and shelf-life of the product under normal conditions of storage and shelf-life of the product under normal conditions.	
age 22	
General directions for use of the meta SPC 1	23
Instructions for use	23
Risk mitigation measures	23
Particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect	t the
Other information	
Meta SPC 2 administrative information	25
1 Meta SPC identifier	
3 Product type(s)	
Meta SPC 2 composition	25
1 Qualitative and quantitative information on the composition of the meta SPC 2	25
	IMARY OF THE PRODUCT ASSESSMENT Administrative information. Identifier of the product family. Authorisation holder. Manufacturer(s) of the products of the family. Manufacturer(s) of the products of the family. Manufacturer(s) of the active substance(s). Product family composition and formulation. Identity of the active substance. Candidate(s) for substitution. Qualitative and quantitative information on the composition of the biocidal product family². Information on technical equivalence. Information on the substance(s) of concern. Assessment of endocrine disruption (ED) properties of the biocidal product family. Type of formulation. Meta SPC 1 administrative information Meta SPC 1 identifier. Suffix to the authorisation number. Product type(s). Meta SPC 1 composition. Qualitative and quantitative information on the composition of the meta SPC 1. Type(s) of formulation of the meta SPC 1. Hazard and precautionary statements according to Regulation (EC) 1272/2008 of the meta SPC 20 Authorised use(s) of the META SPC 1. Use description. Use-specific instructions for use. Use-specific instructions for use. Use-specific instructions for use. Use-specific to the use, the instructions for safe disposal of the product and its packaging. Where specific to the use, the instructions for safe disposal of the product and its packaging. Where specific to the use, the instructions of storage and shelf-life of the product under normal conditions of storage and shelf-life of the product under normal conditions of storage and shelf-life of the product under normal conditions of storage and shelf-life of the product under normal conditions of storage and shelf-life of the product under normal conditions of storage. Other information. Trade name(s), authorisation number and specific composition of each individual product Meta SPC 2 administrative information.

2.1.13	Authorised use(s) of the META SPC 2	26
2.1.13.	1 Use description	26
2.1.13.		
2.1.13.	3 Use-specific risk mitigation measures	27
2.1.13.	Where specific to the use, the particulars of likely direct or indirect effects, first aid instructions an	d
emerge	ency measures to protect the environment	27
2.1.13.	Where specific to the use, the instructions for safe disposal of the product and its packaging	27
2.1.13.	Where specific to the use, the conditions of storage and shelf-life of the product under normal	
conditi	ons of storage	
2.1.14	General directions for use of the meta SPC 2	28
2.1.14.	1 Instructions for use	28
2.1.14.	Risk mitigation measures	28
2.1.14.	Particulars of likely direct or indirect effects, first aid instructions and emergency measures to prot	tect
the env	rironment	
2.1.14.	4 Instructions for safe disposal of the product and its packaging	28
2.1.14.	5 Conditions of storage and shelf-life of the product under normal conditions of storage	28
2.1.15	Other information	29
2.1.16	Trade name(s), authorisation number and specific composition of each individual product	29
2.1.17	Meta SPC 3 administrative information	
2.1.17.	,	
2.1.17.		
2.1.17.		
2.1.18	Meta SPC 3 composition	
2.1.18.	•	
2.1.18.	·	
2.1.19	Hazard and precautionary statements according to Regulation (EC) 1272/2008 of the meta SP	
2.1.19	31	CJ
2 1 20		22
2.1.20	Authorised use(s) of the META SPC 3	
2.1.20.		
2.1.20.		
2.1.20.		
2.1.20.	, , , , , , , , , , , , , , , , , , , ,	
_	ency measures to protect the environment	
2.1.20.	, , , , , , , , , , , , , , , , , , , ,	33
2.1.20.	, ,	22
	ons of storage	
2.1.21	General directions for use of the meta SPC 3	
2.1.21.		
2.1.21.		
2.1.21.	•	
	rironment	
2.1.21.		
2.1.21.		
2.1.22	Other information	
2.1.23	Trade name(s), authorisation number and specific composition of each individual product	
2.1.24	Meta SPC 5 administrative information	
2.1.24.		
2.1.24.		
2.1.24.	Product type(s)	36
2.1.25	Meta SPC 5 composition	37
2.1.25.	1 Qualitative and quantitative information on the composition of the meta SPC 5	37
2.1.25.		
2.1.26	Hazard and precautionary statements according to Regulation (EC) 1272/2008 of the meta SP 37	°C 5
2.1.27	Authorised use(s) of the META SPC 5	38
2.1.27.	* * *	
2.1.27.	·	
2.1.27.	·	
		00

2.1.27	.4	Where specific to the use, the particulars of likely direct or indirect effects, first aid instructions and	
emerg	ency n	neasures to protect the environment	
2.1.27	.5	Where specific to the use, the instructions for safe disposal of the product and its packaging	39
2.1.27	.6	Where specific to the use, the conditions of storage and shelf-life of the product under normal	
conditi		storage	
2.1.28	Gen	eral directions for use of the meta SPC 5	. 40
2.1.28.	.1	Instructions for use	40
2.1.28	.2	Risk mitigation measures	
2.1.28	.3	Particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect	:t
the en	vironn	nent	
2.1.28	.4	Instructions for safe disposal of the product and its packaging	. 40
2.1.28	.5	Conditions of storage and shelf-life of the product under normal conditions of storage	. 40
2.1.29	Oth	er information	. 41
2.1.30	Trac	le name(s), authorisation number and specific composition of each individual product	. 41
2.1.31		a SPC 6 administrative information	
2.1.31.		Meta SPC identifier	
2.1.31		Suffix to the authorisation number	
2.1.31		Product type(s)	
2.1.32		a SPC 6 composition	
2.1.32		Qualitative and quantitative information on the composition of the meta SPC 6	
2.1.32		Type(s) of formulation of the meta SPC 6	
2.1.32 2.1.33		ard and precautionary statements according to Regulation (EC) 1272/2008 of the meta SPC	
2.1.33		and and precaditionary statements according to Regulation (EC) 1272/2008 by the meta SPC	O
	42		
2.1.34		norised use(s) of the META SPC 6	
2.1.34.		Use description	
2.1.34		Use-specific instructions for use	
2.1.34.		Use-specific risk mitigation measures	. 44
2.1.34.		$Where \ specific \ to \ the \ use, \ the \ particulars \ of \ likely \ direct \ or \ indirect \ effects, \ first \ aid \ instructions \ and$	
_		neasures to protect the environment	
2.1.34		Where specific to the use, the instructions for safe disposal of the product and its packaging	. 44
2.1.34	-	Where specific to the use, the conditions of storage and shelf-life of the product under normal	
		storage	
2.1.34.		Use description	
2.1.34.		Use-specific instructions for use	
2.1.34.		Use-specific risk mitigation measures	. 45
2.1.34.		Where specific to the use, the particulars of likely direct or indirect effects, first aid instructions and	
_		neasures to protect the environment	
2.1.34.		Where specific to the use, the instructions for safe disposal of the product and its packaging	. 45
2.1.34		Where specific to the use, the conditions of storage and shelf-life of the product under normal	
		storage	
2.1.35	Gen	eral directions for use of the meta SPC 6	
2.1.35.		Instructions for use	
2.1.35.		Risk mitigation measures	
2.1.35.		Particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect	
		nent	
2.1.35.		Instructions for safe disposal of the product and its packaging	
2.1.35.		Conditions of storage and shelf-life of the product under normal conditions of storage	
2.1.36	Oth	er information	. 46
2.1.37	Trac	le name(s), authorisation number and specific composition of each individual product	. 47
2.1.38	Met	a SPC 7 administrative information	.47
2.1.38	.1	Meta SPC identifier	47
2.1.38		Suffix to the authorisation number	
2.1.38.		Product type(s)	
2.1.39		a SPC 7 composition	
2.1.39		Qualitative and quantitative information on the composition of the meta SPC 7	
2.1.39		Type(s) of formulation of the meta SPC 7	
2.1.40		ard and precautionary statements according to Regulation (EC) 1272/2008 of the meta SPC	
	48	and productionary statements decorating to negatation (EG) 12/2/2000 by the meta St C	•

2.1.41	Authorised use(s) of the META SPC 7	
2.1.41.		
2.1.41.		
2.1.41.		
2.1.41.		
emerge	ency measures to protect the environment	
2.1.41.		50
2.1.41.	6 Where specific to the use, the conditions of storage and shelf-life of the product under normal	
conditi	ons of storage	
2.1.41.		
2.1.41.		
2.1.41.		
2.1.41.		
-	ency measures to protect the environment	
2.1.41.		51
2.1.41.	,	
conditi	ons of storage	
2.1.42	General directions for use of the meta SPC 7	
2.1.42.		
2.1.42.		
2.1.42.		
	vironment	
2.1.42.		
2.1.42.		
2.1.43	Other information	
2.1.44	Trade name(s), authorisation number and specific composition of each individual product	
2.1.45	Packaging of the biocidal product	53
2.1.46	Documentation	54
2.1.46.	1 Data submitted in relation to product application	54
2.1.46.	2 Access to documentation	54
2.2 Asse	SSMENT OF THE BIOCIDAL PRODUCT FAMILY	55
2.2.1	Intended use(s) as applied for by the applicant	
2.2.2	Physical, chemical and technical properties	
	hysical, chemical and technical properties – Meta SPC 1, Meta SPC 2 and Meta SPC6	
	hysical, chemical and technical properties – Meta SPC 3hysical, chemical and technical properties – Meta SPC 3	
	hysical, chemical and technical properties – Meta SPC 4	
	hysical, chemical and technical properties – Meta SPC 5	
2.2.2.5 P	hysical, chemical and technical properties – Meta SPC 7	
2.2.3	Physical hazards and respective characteristics	
2.2.4	Methods for detection and identification	108
2.2.5	Efficacy against target organisms	113
2.2.5.1	Function and field of use	113
2.2.5.2	Organisms to be controlled and products, organisms or objects to be protected	114
2.2.5.3	Effects on target organisms, including unacceptable suffering	115
2.2.5.4	Mode of action, including time delay	115
2.2.5.5		
2.2.5.6	Occurrence of resistance and resistance management	129
2.2.5.7	Known limitations	129
2.2.5.8		
2.2.5.9	Relevant information if the product is intended to be authorised for use with other biocidal product(s).	129
2.2.6	Risk assessment for human health	130
2.2.6.1	·	
2.2.6.2	Exposure assessment and risk characterisation for Human health	133
2.2.7	Risk assessment for animal health	162
2.2.8	Risk assessment for the environment	
2.2.8.1	•	
2.2.8.2		
2.2.8.3	·	

2.2	2.9 Measures to protect man, animals and the environment	192
2.2	2.10 Assessment of a combination of biocidal products	
3 AN	NNEXES	193
3.1	LIST OF STUDIES FOR THE BIOCIDAL PRODUCT FAMILY	193
3.2	OUTPUT TABLES FROM EXPOSURE ASSESSMENT TOOLS	208
3.3	CONFIDENTIAL ANNEX	208

Changes history table

Applicati on type	refMS/ eCA	Case number in the refMS	Decision date	Assessment carried out (i.e. first authorisation / amendment / renewal)
NA-APP	FR	BC-QY059576-88	06.12.2023	Initial assessment
NA-AAT	FR	BC-MS099113-16	23.07.2024	Amendement according to article 48 of the BPR: addition of target organisms species in the SPC

1 CONCLUSION

The product family CHIMIGET_CYPER is a family of product type 18 (TP18: insecticide) containing between 0.22 and 10.87% w/w technical cypermethrin cis/trans 40/60. Biocidal products are intended to be used by non-professionals, indoor or outdoor, against flying and crawling insects, wasps and hornets.

The family is composed of 7 Meta SPCs:

- Meta SPC 1 product is a ready-to-use aerosol insecticide against wasps and hornets. It is used as direct spraying on insects, outdoor.
- Meta SPC 2 products are ready-to-use aerosol insecticides against crawling and flying insects. They are used as direct spraying on insects outdoor.
- Meta SPC 3 products are ready-to-use one-shot aerosol insecticides against crawling and flying insects. They are used as space treatment, indoor.
- Meta SPC 4 products are ready-to-use trigger spray insecticides against crawling and flying insects. They are used as surface spray under buildings.
- Meta SPC 5 product is a concentrate insecticide against crawling and flying insects. After dilution in water, it is used as surface application, outdoor (under buildings or with a targeted application in cracks and crevices)
- Meta SPC 6 product is a ready-to-use aerosol insecticides against crawling and flying insects. It is used as direct spraying on insects and surface application, indoor and outdoor (by spraying directly on insects or by spraying as target spot in cracks and crevices)
- Meta SPC 7 product is a ready-to-use trigger spray insecticide against crawling and flying insects. It is used as surface application, outdoor (targeted in cracks and crevices or surface spraying under buildings)

Conclusion of the physico-chemical and technical properties

The physico-chemical properties of the family of biocidal products CHIMIGET_CYPER have been described and considered acceptable in the conditions of use detailed in the SPC.

All meta SPCs and products are stable at ambient temperature during 2 years, except for meta SPC 7 for which the shelf-life is set at 1 year due to a leak was observed after 24 months.

All meta SPCs are stable during 8 weeks at 40°C. A mitigation measure: store the product at temperature below 40°C should be added on the label.

For meta SPC 5, as the storage stability at low temperature is not complete, a mitigation measure should be added on the label : protect from frost.

The meta SPCs 1, 2, 3 and 6 are classified Flam, aerosol 1, H222 (extremely flammable aerosol) and H229 (pressurised container: may burst if heated).

The meta SPCs 4, 5 and 7 are not classified for physical hazard properties.

Analytical methods for the determination of the active substance cypermethrin have been developed and validated for this determination in the family of biocidal products CHIMIGET CYPER.

Conclusion on efficacy

French competent authorities (FR CA) assessed that the family CHIMIGET_CYPER, separated in 7 META-SPC has shown a sufficient efficacy as following:

Meta SPC 1:

The efficacy of the product is demonstrated when used by direct spraying against wasp (*Vespula sp,* adults), European hornet (*Vespa crabro*, adults) and Asian hornet (*Vespa velutina*, adults) at the application rate of 17.5 g of product (1 second spray) after 1 hour.

Meta SPC 2:

The efficacy of the products is demonstrated when used by direct spraying against crawling insects (adults) including cockroaches (*Blattella germanica*, *Periplaneta americana*) and flying insects (adults) including mosquitoes (*Culex sp*), flies (*Musca domestica*) and wasps (*Vespula sp.*), at the application rate of 2.5 g of product (1 second spray) after 1 hour.

Meta SPC 3:

The efficacy of the products is demonstrated when used by fogging against crawling insects (adults) including cockroaches (*Blattella germanica*, *Periplaneta Americana*) and flying insects (adults) including mosquitoes (*Culex sp*), flies (*Musca domestica*) and wasps (*Vespula sp.*), at the application rate of 1 mL product / m³ (e.g. a can of 50 mL in a room up to 50 m³) with an exposure time of 4 hours, after 24 hours.

Meta SPC 4:

The efficacy of the products is demonstrated when used by spraying on surfaces (porous and non-porous) against crawling insects (adults) including cockroaches (*Blattella germanica*, *Periplaneta americana*) and flying insects including mosquitoes (*Culex sp.*), flies (*Musca domestica*) and wasps (*Vespula sp.*), at the application rate of 20 mL product / m², up to 4 months (time delay: between 24h and 72h).

Meta SPC 5:

- The efficacy of the product is demonstrated when used by spraying on surfaces (porous and non-porous) against crawling insects (adults) including cockroaches (*Blattella germanica, Periplaneta americana*) and flying insects (adults) including mosquitoes (*Culex sp.*), flies (*Musca domestica*) and wasps (*Vespula sp.*), at the application rate of 20 mL product / m² (after dilution at 2% v/v), up to 4 months (time delay: between 24h and 72h).
- The efficacy of the product is demonstrated when used by spraying on surfaces (porous and non-porous) by spot application against flying insects (adults) including mosquitoes (*Culex sp.*), flies (*Musca domestica*) and wasps (*Vespula sp.*), and in cracks and crevices against crawling insects (adults) including cockroaches (*Blattella germanica* and *Periplaneta americana*), at the application rate of 20 mL product / m² (after dilution between 2% and 8% v/v), up to 4 months (time delay: between 24h and 72h).

Meta SPC 6:

- The efficacy of the products is demonstrated when used by direct spraying against crawling insects (adults) including cockroaches (*Blattella germanica* and *Periplaneta americana*) and flying insects (adults) including mosquitoes (*Culex sp.*), flies (*Musca domestica*) and wasps (*Vespula sp.*), at the application rate of 2.5 g of product (1 second spray), after 1 hour.
- The efficacy of the products is demonstrated when used by spraying on surfaces (porous and non-porous) by spot application against flying insects (adults) including mosquitoes (*Culex sp.*), flies (*Musca domestica*) and wasps (*Vespula sp.*) and in cracks and crevices against crawling insects (adults) including cockroaches (*Blattella germanica* and *Periplaneta americana*), at the application rate of 17 mL product / m² (7 seconds spray/m²), up to 4 months (time delay: between 24h and 72h).

Meta SPC 7:

- The efficacy of the product is demonstrated when used by spraying on surfaces (porous and non-porous) against crawling insects (adults) including cockroaches (*Blattella germanica*, *Periplaneta americana*) and flying insects (adults) including mosquitoes (*Culex sp.*), flies (*Musca domestica*) and wasps (*Vespula sp.*), at the application rate of 20 mL product / m², up to 4 months.
- The efficacy of the product is demonstrated when used by spraying on surfaces (porous and non-porous) by spot application against flying insects (adults) including mosquitoes (*Culex sp.*), flies (*Musca domestica*) and wasps (*Vespula sp.*) and in cracks and crevices against crawling insects (adults) including cockroaches (*Blattella , Periplaneta americana*) at the application rate of 20 mL product / m², up to 4 months (time delay: between 24h and 72h).

Conclusion on Human Health

For the family CHIMIGET_CYPER, the risk is considered acceptable for non-professional users and the general public for meta-SPC 1, 2, 3, 4, 5, 6 (outdoor application) and 7, considering a qualitative and quantitative risk assessment, with the application of risk mitigation measures (RMM) listed in the SPC.

For meta-SPC 6 (indoor application in cracks and crevices), the risk is not considered acceptable.

Conclusion risk for consumers via residues in food

Considering the uses, food, or feed contamination is not expected. Therefore, the exposure via food, via livestock exposure or via transfer of the active substances is considered as negligible, and no dietary risk assessment has been performed. Nevertheless, the following risk mitigation measures are added to prevent any dietary exposure:

For META SPC 1, 2, 4, 5, 6 & 7: Do not use directly on or near food, feed or drinks, or on surfaces or utensils likely to be in direct contact with food, feed, drinks and livestock.

For META SPC 3 only:

- Do not use in places where food or feed is stored, prepared or eaten.
- Do not use directly on or near food, feed or drinks, or on surfaces or utensils likely to be in direct contact with food, feed, drinks and livestock.

Conclusion for Environment

The risk assessment has been conducted for the active substance only. No substance of concern has been identified for the environment.

The conclusions of the risk assessment is presented in the table below:

Meta -SPC	Use	Indoor/ Outdoor	Conclusion	RMM/remarks
Meta SPC 1	Use#1 - AE WH - wasps and hornets aerosol - Direct spraying on insects	Outdoor	Acceptable with RMM	Proposed RMM: Do not use on bare soil
Meta SPC 2	Use#1 - AE FC - crawling insects (adults) inluding cockroaches (B. germanica and P. americana) and flying insects (adults) including mosquitoes, (Culex sp.), flies (M. domestica) and wasps (Vespula sp.) - Direct spraying on insects	Outdoor	Acceptable with RMM	Proposed RMM: Do not use on bare soil
Meta SPC 3	Use # 1 – OS – crawling insects (adults) including cockroaches (<i>B. germanica</i> and <i>P. americana</i>) and flying insects (adults) including mosquitoes, (<i>Culex sp.</i>), flies (<i>M. domestica</i>) and wasps (<i>Vespula sp.</i>) - space treatment with a one-shot aerosol	Indoor	Acceptable with RMM (leading to no release to the environment)	Proposed RMMs: - The product is only for indoor use and to be strictly applied in non wet-cleaned premises (cellars, basements, crawl spaces, garages, attics, barns, sheds) - Do not use where the biocidal product is likely to be discharged to a wastewater treatment plant and/or surface water. - Dry clean (broom or vacuum cleaner) treated area and dispose of residues to hazardous solid waste in order to prevent releases to water.
Meta SPC 4	Use # 1 - RTU - crawling insects (adults) including	Outdoor	Not acceptable	Unacceptable risks for the terrestrial compartment

	cockroaches (B. germanica and P. americana) and flying insects (adults) including mosquitoes, (Culex sp.), flies (M. domestica) and wasps (Vespula sp.) - under buildings			
Meta SPC 5	Use # 1 - EC - crawling insects (adults) including cockroaches (B. germanica and P. americana) and flying insects (adults) including mosquitoes, (Culex sp.), flies (M. domestica) and wasps (Vespula sp.) - Target surface spraying as spots application or in cracks and crevices (Dil 2%)	Outdoor	Not acceptable	A dilution of 2% would require to measure 0.8 ml to dilute the product (considering the targeted application restricted to small surfaces of around 2 m²) and no device is provided to measure such a quantity. Therefore, it is not feasible for a non-professionnel.
	Use # 2 - EC - crawling insects (adults) including cockroaches (B. germanica and P. americana) and flying insects (adults) including mosquitoes, (Culex sp), flies (M. domestica) and wasps (Vespula sp.) - surface spray - under buildings	Outdoor	Not acceptable with dilution of 8% Acceptable with dilution of 2%	Unacceptable risks for the terrestrial compartment with a dilution of 8%
	Use # 1 - AE FC1 - crawling insects (adults) including	Indoor	Not acceptable	Unacceptable risks for the aquatic compartment
Meta SPC 6	(adults) including cockroaches (B. germanica and P. americana) and flying insects (adults) including mosquitoes, (Culex sp.), flies (M. domestica) and wasps (Vespula sp.) -	Outdoor	Acceptable	

	direct spraying on insects			
	Use # 2 - AE FC1 - crawling insects (adults) including cockroaches (B. germanica and P. americana) and flying insects (adults) including mosquitoes, (Culex sp.), flies (M. domestica) and wasps (Vespula sp.) - Target surface spraying as spots application or in cracks and crevices	Indoor	Not acceptable	Unacceptable risks for the aquatic compartment
		Outdoor	Acceptable with RMM	Proposed RMM: Apply outdoor only on hard surface under a roof, on areas that are not liable to submersion or becoming wet, i.e. protected from rain, floods and cleaning water.
Meta SPC 7	Use # 1 - RTU1 - crawling insects (adults) including cockroaches (B. germanica and P. americana) and flying insects (adults) including mosquitoes, (Culex sp.), flies (M. domestica) and wasps (Vespula sp.) - Target surface spraying as spots application or in cracks and crevices	Outdoor	Acceptable with RMM	Proposed RMM Apply outdoor only on hard surface under a roof, on areas that are not liable to submersion or becoming wet, i.e. protected from rain, floods and cleaning water.
	Use # 2 - RTU1 - crawling insects (adults) including cockroaches (B. germanica and P. americana) and flying insects (adults) including mosquitoes, (Culex sp.), flies (M. domestica) and wasps (Vespula sp.) - under buildings	Outdoor	Acceptable	

Overall conclusion

The overall conclusion of the evaluation is that the biocidal product family CHIMIGET_CYPER, does meet the conditions laid down in Article 19(1) of Regulation (EU) No 528/2012, except for some uses, as detailed in the table here below.

Meta SPC	Target	Doses	Condition of use	Conclusions
1	organisms Wasp (Vespula sp.) European hornet (Vespa crabro) Asian hornet (Vespa velutina) Adult	1 sec spray (17,5g)	Direct spraying Outdoor General public	Acceptable
2	Crawling insects including cockroaches (Blattella germanica, (Periplaneta americana) Flying insects including Mosquitoes (Culex sp.) House fly (Musca domestica) Wasp (Vespula sp.) Adult	1 sec spray (2,5g)	Direct spraying Outdoor General public	Acceptable
3	Crawling insects Including cockroaches (Blattella germanica, (Periplaneta americana) Flying insects including Mosquitoes (Culex sp.) House fly (Musca domestica) Wasp (Vespula sp.) Adult	1 mL/m³	One-shot aerosol Indoor General public	Acceptable
4	Crawling insects including cockroaches (Blattella germanica,	20 mL/m ²	Spraying surfaces under buildings Outdoor General public	Not acceptable Unacceptable risks for the terrestrial compartment

	Periplaneta americana) Flying insects including Mosquitoes (Culex sp.) House fly (Musca domestica) Wasp (Vespula			
	sp.) Adult			
	Crawling insects including cockroaches (Blattella germanica, Periplaneta	20 mL/m² ou 4 mL/m after 2 % v/v dilution in water	Target surface spraying as spots application or in cracks and crevices Outdoor General public	Not acceptable The general public cannot dilute the product properly
5	americana) Flying insects including Mosquitoes (Culex sp.) House fly (Musca domestica) Wasp (Vespula sp.) Adult	20 mL/m² after 2-8% v/v dilution in water	Spraying surfaces under buildings Outdoor General public	Acceptable 2% dilution only
	Crawling insects including cockroaches (Blattella germanica,	1 sec spray (2,5g)	Direct spraying Indoor and Outdoor General public	Not acceptable: - Unacceptable risks for the aquatic compartment with indoor application
	Periplaneta americana) Flying insects	1 sec spray (2,5g)	Direct spraying Outdoor General public	Acceptable
6	including Mosquitoes (Culex sp.) House fly (Musca domestica) Wasp (Vespula sp.) Adult	7 sec spray/m ² (17,5g/m ²)	Target surface spraying as spots application or in cracks and crevices Indoor and Outdoor General public	Not acceptable: - Unacceptable risks for the health of the general public when used indoors in cracks and crevices - Unacceptable risks for the aquatic compartment

1				
				with indoor application
		7 sec spray/m ² (17,5g/m ²)	Target surface spraying as spots application or in cracks and crevices Outdoor General public	Acceptable
	Crawling insects including cockroaches (Blattella germanica, Periplaneta	20 mL/m²	Target surface spraying as spots application or in cracks and crevices Outdoor General public	Acceptable
7	americana) Flying insects including Mosquitoes (Culex sp.) House fly (Musca domestica) Wasp (Vespula sp.) Adult	20 mL/m²	Spraying surfaces under buildings Outdoor General public	Acceptable

2 ASSESSMENT REPORT

PART I - FIRST INFORMATION LEVEL

2.1 Summary of the product assessment

2.1.1 Administrative information

2.1.1.1 Identifier of the product family

Identifier	Country (if relevant)
CHIMIGET_CYPER	

2.1.1.2 Authorisation holder

Name and address of the	Name	Chimiget
authorisation holder	Address	Lieu-dit-Sibilot - CD6
		13480 Cabriès
		France
Authorisation number	FR-2023-	0068
Date of the authorisation	06/12/2	023
Expiry date of the authorisation	05/12/2	033

2.1.1.3 Manufacturer(s) of the products of the family

Name of manufacturer	BFC
Address of manufacturer	11, rue de l'Huisne
	61110 Rémalard-en-Perche,
	France
Location of manufacturing	11, rue de l'Huisne
sites	61110 Rémalard-en-Perche,
	France

Name of manufacturer	IGET CHIMIE
Address of manufacturer	Lieu-dit-Sibilot – CD6
	13480 Cabriès
	France
Location of manufacturing	Lieu-dit-Sibilot – CD6
sites	13480 Cabriès
	France

2.1.1.4 Manufacturer(s) of the active substance(s)

	(RS)-a-cyano-3phenoxybenzyl-(1RS)-cis, trans-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate
	(Cypermethrin)
Name of manufacturer	Tagros Chemicals India Private Limited

Address of manufacturer	Jhaver Centre, Raja Annamalai Building IVth Floor, 72 Marshall Road, Egmore, 6000 008 Chennai India
Location of manufacturing	A-4/1&2, Sipcot Industrial Complex,
sites	Pachayankuppam,
	Cuddalore,
	607 005 Tamilnadu
	India

2.1.2 Product family composition and formulation

NB: the full composition of the product according to Annex III Title 1 should be provided in the confidential annex.

Does the product have the same identity and composition as the product evaluated in connection with the approval for listing of the active substance(s) on the Union list of approved active substances under Regulation No. 528/2012?

Yes ☐ No 🖂

2.1.2.1 Identity of the active substance

Maiı	Main constituent(s)			
ISO name	Cypermethrin, Cypermethrin cis:trans/40:60			
IUPAC or EC name	(RS)-a-cyano-3 phenoxybenzyl-(1RS)-cis, trans-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropane carboxylate			
EC number	257-842-9			
CAS number	52315-07-8			
Index number in Annex VI of CLP	607-421-00-4			
Minimum purity / content	≥ 92% w/w			
Structural formula	CI CH_3 CH			

2.1.2.2 Candidate(s) for substitution

Cypermethrin is not a candidate for substitution in accordance with Article 10 of the BPR.

2.1.2.3 Qualitative and quantitative information on the composition of the biocidal product family²

Common name	IUPAC name		CAS number	EC number	Content (%)	
					Min	Max
(1RS)-cis, trans-3- (2,2-dichlorovinyl)- 2,2- dimethylcyclopropane carboxylate (Cypermethrin)	cyano-3 phenoxybenz yl-(1RS)-cis, trans-3-(2,2-	substance	52315-07-8	257-842-9	0.22	10.87
Ethanol		Non-active substance	64-17-5		0.0	29.78

2.1.2.4 Information on technical equivalence

A technical equivalence application (BC- MS050669-06) has been submitted at ECHA to demonstrate the equivalence of the source used in this dossier and the source of the original active substance.

2.1.2.5 Information on the substance(s) of concern

The family CHIMIGET_CYPER contains one substance of concern for Human Health.

Please see the confidential annex for further details.

2.1.2.6 Assessment of endocrine disruption (ED) properties of the biocidal product family

The biocidal product contains the active substance cypermethrin which has not yet been evaluated according to the scientific criteria set out in the Regulation (EU) 2017/2100.

Based on the available information, no indications of endocrine-disrupting properties according to Regulation (EU) 2017/2100 were identified for the non-active substances contained in the biocidal product.

Please refer to the Confidential annex for further details.

2.1.2.7 Type of formulation

AE - Aerosol dispenser

AL - Any other liquid

SL - Soluble concentrate

PART II - SECOND INFORMATION LEVEL - META SPC 1

2.1.3 Meta SPC 1 administrative information

2.1.3.1 Meta SPC identifier

Identification	Meta SPC1_AE WH
----------------	-----------------

2.1.3.2 Suffix to the authorisation number

Number	META_SPC_SUFFIX_1
--------	-------------------

2.1.3.3 Product type(s)

Product type(s)	18

2.1.4 Meta SPC 1 composition

2.1.4.1 Qualitative and quantitative information on the composition of the meta SPC 1

Common name	IUPAC name	Function	CAS number	EC number	Content (%)	
					Min	Max
	RS)-a-		52315-07-8	257-842-9	0.54	0.54
(RS)-α-cyano-	cyano-3					
3phenoxybenzyl-	phenoxybenz					
(1RS)-cis, trans-3-	yl-(1RS)-cis,					
(2,2-dichlorovinyl)-	trans-3-(2,2-	Technical				
2,2-	dichlorovinyl	active				
dimethylcyclopropane)-2,2-	substance				
carboxylate	dimethylcycl					
(Cypermethrin)	opropane					
	carboxylate					
Ethanol		Non-active	64-17-5		29.46	29.46
		substance				

2.1.4.2 Type(s) of formulation of the meta SPC 1

AE - Aerosol dispenser

2.1.5 Hazard and precautionary statements according to Regulation (EC) 1272/2008 of the meta SPC 1

Classification and labelling of the products of the family according to the Regulation (EC) 1272/2008

Classification	
Hazard category	Flammable Aerosol 1
	Eye Irritation 2
	Aquatic Acute 1
	Aquatic Chronic 1
Hazard statement	H222 Extremely flammable aerosol
	H229 Pressurised container: May burst if heated
	H319: Causes serious eye irritation
	H400: Very toxic to aquatic life
	H410: Very toxic to aquatic life with long lasting effects
Laballing	
Labelling Signal words	Danger
Hazard statements	H222 Extremely flammable aerosol
	H229 Pressurised container: May burst if heated
	H319: Causes serious eye irritation
<u> </u>	H410: Very toxic to aquatic life with long lasting effects
Precautionary	P101: If medical advice is needed, have product container or
statements	label at hand.
	P102: Keep out of reach of children.
	P103: Read carefully and follow all instructions.
	P210 Keep away from heat, hot surfaces, sparks, open flames andother ignition sources. No smoking.
	P211 Do not spray on an open flame or other ignition
	source.
	P251 Do not pierce or burn, even after use.
	P264: Wash hands thoroughly after handling.
	P305+P351+P338: IF IN EYES: Rinse cautiously with
	water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
	P337+P313: If eye irritation persists: Get medical advice/
	attention.
	P410+P412 Protect from sunlight. Do not expose to
	temperatures exceeding 50 °C/122 °F.
	P273: Avoid release to the environment
	P391: Collect spillage
	P403: Store in a well-ventilated place
	P501: Dispose of contents/container according to local
	regulation
Note	

2.1.6 Authorised use(s) of the META SPC 1

2.1.6.1 Use description

Table 1. Use # 1 -Wasps and hornets aerosol -non professional users

Product Type	18
Where relevant, an exact description of the authorised use	

Target organism(s) (including	Wasp (<i>Vespula sp.</i>) European hornet (<i>Vespa crabro</i>)
development stage)	Asian hornet (Vespa velutina)
	Development stage: adults
Field(s) of use	Outdoor
Application method(s)	Spraying Direct spraying on insects
Application rate(s) and frequency	17.5 g of product (1 second spraying)
Category(ies) of users	General public (non-professional)
Pack sizes and packaging material	Aerosol metal can without internal varnish valve type FL 500 to 750 mL
2.1.6.2 Use-spec	ific instructions for use
2.1.6.3 Use-spec	ific risk mitigation measures
	pecific to the use, the particulars of likely direct or indirect instructions and emergency measures to protect the
_	
2.1.6.5 Where sp product and its p	pecific to the use, the instructions for safe disposal of the ackaging
-	
	pecific to the use, the conditions of storage and shelf-life of er normal conditions of storage

2.1.7 General directions for use of the meta SPC 1

2.1.7.1 Instructions for use

- Comply with the instructions for use.
- The user should be aware that a delay of up to 1 hour may be encountered before death.
- Inform the registration holder if the treatment is ineffective.

2.1.7.2 Risk mitigation measures

- Wash hands after use.
- Do not spray towards people and non target animals.
- Do not use on bare soil.
- Do not use directly on or near food, feed or drinks, or on surfaces or utensils likely to be in direct contact with food, feed, drinks and livestock.
- Due to their particular sensitivity to pyrethroids toxicity, the product can cause severe adverse reactions in cats.

2.1.7.3 Particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment

- If medical advice is needed, have product container or label at hand.
- IF IN EYES: Rinse with water. Remove contact lenses, if present and easy to do. Continue rinsing for 5 minutes. Call a POISON CENTRE or a doctor.
- IF ON SKIN: Wash skin with water. If symptoms occur call a POISON CENTRE or a doctor.
- IF INHALED: If symptoms occur call a POISON CENTRE or a doctor.
- IF SWALLOWED: Rinse mouth. Give something to drink, if exposed person is able to swallow. Do NOT induce vomiting. Call a POISON CENTRE or a doctor.
- Pyrethroids may cause paresthesia (burning and prickling of the skin without irritation). If symptoms persist: Get medical advice

2.1.7.4 Instructions for safe disposal of the product and its packaging

- Do not discharge unused product on the ground, into watercourses, into pipes (sink, toilets...) nor down the drains.
- Dispose of unused product, its packaging and all other waste, in accordance with local regulations.

2.1.7.5 Conditions of storage and shelf-life of the product under normal conditions of storage

- Keep the container tightly closed in a dry and well-ventilated room.
- Pressurized container: May burst if heated. Do not pierce or burn, even after use. Protect from sunlight.
- Do not store at temperature > 40°C.
- Keep packaging away from sources of heat, sparks and open flame.

- Shelf-life: 24 months.
- Keep out of reach of children and non-target animals/pets.

2.1.8 Other information

Trade name(s) AE WH

- This biocidal product contains cypermethrin which is dangerous to bees.

PART III - THIRD INFORMATION LEVEL: INDIVIDUAL PRODUCTS IN THE META SPC 1

2.1.9 Trade name(s), authorisation number and specific composition of each individual product

Trade name(3)	PARASECT TORNADE C IG AEROJET C VESPA TURBO CIT VESPA TURBO L'ELFE INSECTICIDE GUÊPES FRELONS INSECTICIDE ANTI GUÊPES-FRELONS BLASTOR INSECTICIDE GUÊPES & FRELONS F-A97 INS ALGI-INSECT ANTI GUEPES/FRELONS CY CONTROL AEROSOL CY ACTO / MORTIS GUÊPES - FRELONS SUBITO GUEPES ET FRELONS CHOC SUBITO AEROSOL ANTI GUEPES ET FRELONS SUBITO ANTI-GUEPES ET FRELONS LONGUE PORTEE SUBITO ANTI-GUEPES ET FRELONS JET 6 METRES 123 MOUSTIQUES AEROSOL ANTI-GUEPES ET FRELONS 1015VGB INSECTICHOC DP CYP INSECTI-SHOT CYP KAP4HOME TORNADE				
Authorisation number					
Common name	IUPAC name	Function	CAS number	EC number	Content (%)
(RS)-a-cyano- 3phenoxybenzyl- (1RS)-cis, trans-3- (2,2- dichlorovinyl)-2,2- dimethylcycloprop anecarboxylate (Cypermethrin)	RS)-a-cyano- 3phenoxybenzyl- (1RS)-cis, trans- 3-(2,2- dichlorovinyl)- 2,2- dimethylcyclopro panecarboxylate	Technical active substance	52315-07- 8	257-842-9	0.54

Ethanol	Formu	lant 64-17-5	29.46

PART II - SECOND INFORMATION LEVEL - META SPC 2

2.1.10 Meta SPC 2 administrative information

2.1.10.1 Meta SPC identifier

Identification	Meta SPC2_AE FC
----------------	-----------------

2.1.10.2 Suffix to the authorisation number

Number	META SPC SUFFIX 2
Number	META_SPC_SUFFIX_2

2.1.10.3 Product type(s)

Product type(s)	18
	

- **2.1.11** Meta SPC 2 composition
- **2.1.11.1** Qualitative and quantitative information on the composition of the meta SPC 2

Common name	IUPAC name		CAS number		Content (%)	
					Min	Max
3phenoxybenzyl- (1RS)-cis, trans-3- (2,2-dichlorovinyl)- 2,2- dimethylcyclopropa	trans-3-(2,2- dichlorovinyl)-	Technical active substance	52315-07-8	257-842-9	0.54	0.87
Ethanol		Formulant	64-17-5		29.13	29.46

2.1.11.2 Type(s) of formulation of the meta SPC 2

AE - Aerosol dispenser

2.1.12 Hazard and precautionary statements according to Regulation (EC) 1272/2008 of the meta SPC 2

Classification and labelling of the products of the family according to the Regulation (EC) 1272/2008

Classification	
Hazard category	Flammable Aerosol 1 Eye Irritation 2 Aquatic Acute 1 Aquatic Chronic 1
Hazard statement	H222 Extremely flammable aerosol H229 Pressurised container: May burst if heated
	H319: Causes serious eye irritation H400: Very toxic to aquatic life H410: Very toxic to aquatic life with long lasting effects
Labelling	
Signal words	Danger
Hazard statements	H222 Extremely flammable aerosol H229 Pressurised container: May burst if heated
	H319: Causes serious eye irritation H410: Very toxic to aquatic life with long lasting effects
Precautionary statements	P101: If medical advice is needed, have product container or label at hand. P102: Keep out of reach of children. P103: Read carefully and follow all instructions. P210: Keep away from heat, hot surfaces, sparks, open flames andother ignition sources. No smoking. P211: Do not spray on an open flame or other ignition source. P251: Do not pierce or burn, even after use. P264: Wash hands thoroughly after handling. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313: If eye irritation persists: Get medical advice/ attention. P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. P273: Avoid release to the environment P391: Collect spillage P403: Store in a well-ventilated place P501: Dispose of contents/container according to local regulation
Note	

2.1.13 Authorised use(s) of the META SPC 2

2.1.13.1 Use description

Table 2. Use # 1 -Flying and crawling insects - direct spray - non professional users

Product Type	18

hare .			
Where relevant, an			
exact description of the	•		
authorised use			
Target organism	Crawling insects including		
(including developmen			
stage)	German cockroaches (<i>Blattella germanica</i>)		
	American cockroaches (<i>Periplaneta americana</i>)		
	Elving insects including		
	Flying insects including		
	Common house mosquito (Culex sp.)		
	House fly (Musca domestica)		
	Wasp (Vespula sp.)		
	Development stage: adults		
Field of use	Outdoor		
Application method(s)	Spraying		
	Direct spraying on insects		
Application rate(s) and	2.5 g of product (1 second spraying)		
frequency			
Category(ies) of users	General public (non professional)		
Pack sizes and	Aerosol metal can without internal varnish valve VP 195		
packaging material	150 to 750 mL		
2.1.13.2 Use-spe	ecific instructions for use		
2.1.13.3 Use-spe	ecific risk mitigation measures		
-			
	specific to the use, the particulars of likely direct or indirect id instructions and emergency measures to protect the		
-			
2.1.13.5 Where sproduct and its	specific to the use, the instructions for safe disposal of the packaging		
-			
	specific to the use, the conditions of storage and shelf-life o ler normal conditions of storage		
1			

2.1.14 General directions for use of the meta SPC 2

2.1.14.1 Instructions for use

- Comply with the instructions for use.
- The user should be aware that a delay of up to 1 hour may be encountered before death.
- Inform the registration holder if the treatment is ineffective.

2.1.14.2 Risk mitigation measures

- Do not use directly on or near food, feed or drinks, or on surfaces or utensils likely to be in direct contact with food, feed, drinks and livestock.
- Wash hands after use.
- Do not use on bare soil.
- Due to their particular sensitivity to pyrethroids toxicity, the product can cause severe adverse reactions in cats.

2.1.14.3 Particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment

- If medical advice is needed, have product container or label at hand.
- IF IN EYES: Rinse with water. Remove contact lenses, if present and easy to do. Continue rinsing for 5 minutes. Call a POISON CENTRE or a doctor.
- IF ON SKIN: Wash skin with water. If symptoms occur call a POISON CENTRE or a doctor.
- IF INHALED: If symptoms occur call a POISON CENTRE or a doctor.
- IF SWALLOWED: Rinse mouth. Give something to drink, if exposed person is able to swallow. Do NOT induce vomiting. Call a POISON CENTRE or a doctor.
- Pyrethroids may cause paresthesia (burning and prickling of the skin without irritation). If symptoms persist: Get medical advice

2.1.14.4 Instructions for safe disposal of the product and its packaging

- Do not discharge unused product on the ground, into watercourses, into pipes (sink, toilets...) nor down the drains.
- Dispose of unused product, its packaging and all other waste, in accordance with local regulations.

2.1.14.5 Conditions of storage and shelf-life of the product under normal conditions of storage

- Keep the container tightly closed in a dry and well-ventilated room.
- Pressurized container: May burst if heated. Do not pierce or burn, even after use. Protect from sunlight .
- Do not store at temperature > 40°C.
- Keep packaging away from sources of heat, sparks and open flame.
- Shelf-life: 24 months.
- Keep out of reach of children and non-target animals/pets.

2.1.15 Other information

Trade name(s)

AE FC2

This biocidal product contains cypermethrin which is dangerous to bees.

PART III - THIRD INFORMATION LEVEL: INDIVIDUAL PRODUCTS IN THE META SPC 2

2.1.16 Trade name(s), authorisation number and specific composition of each individual product

	PARASECT AC5 L'ELFE INSECTICIDE SPECIAL RAMPANTS + L'ELFE INSECTICIDE SPECIAL VOLANTS - RAMPANTS + L'ELFE INSECTICIDE SPECIAL VOLANTS + BLASTOR INSECTICIDE SPECIAL RAMPANTS + BLASTOR INSECTICIDE VOLANTS - RAMPANTS + BLASTOR INSECTICIDE SPECIAL VOLANTS + INSECTICIDE ANTI-RAMPANTS + INSECTICIDE ANTI-VOLANTS + F-A87 INS ACTO / MORTIS RAMPANTS ACTO / MORTIS FOURMIS ACTO / MORTIS FOURMIS ACTO / MORTIS MOUCHES SUBITO ANTI INSECTES VOLANTS SUBITO ANTI INSECTES RAMPANTS 1014E KAP4HOME AC5				
Authorisation number					
Common name	IUPAC name	Function	CAS number	EC number	Content (%)
(RS)-a-cyano- 3phenoxybenzyl- (1RS)-cis, trans-3- (2,2- dichlorovinyl)-2,2- dimethylcycloprop anecarboxylate (Cypermethrin)	(RS)-a-cyano- 3phenoxybenzyl- (1RS)-cis, trans- 3-(2,2- dichlorovinyl)- 2,2- dimethylcyclopro panecarboxylate	Technical active substance	52315-07- 8	257-842-9	
ethanol			64-17-5		29.46

Trade name(s)	AE FC3
	PARASECT AC8
	ACTO / MORTIS VOLANTS RAMPANTS

	SUBITO SPECIAL INSECTES RESISTANTS SUBITO AEROSOL SPECIAL INSECTES RESISTANTS SUBITO AEROSOL ANTI CAFARDS 1014C INSECTICHOC A CYP NETINSECT CYP RAYO-INSECTE PLUS KAP4HOME AC8				
Authorisation number					
Common name	IUPAC name	Function	CAS number	EC number	Content (%)
(RS)-a-cyano- 3phenoxybenzyl- (1RS)-cis, trans-3- (2,2- dichlorovinyl)-2,2- dimethylcycloprop anecarboxylate (Cypermethrin)	(RS)-a-cyano- 3phenoxybenzyl- (1RS)-cis, trans- 3-(2,2- dichlorovinyl)- 2,2- dimethylcyclopro panecarboxylate	Technical active substance	52315-07- 8	257-842-9	0.87
ethanol			64-17-5		29.13

PART II - SECOND INFORMATION LEVEL - META SPC 3

2.1.17 Meta SPC 3 administrative information

2.1.17.1 Meta SPC identifier

Identification	Meta SPC3_OS	
----------------	--------------	--

2.1.17.2 Suffix to the authorisation number

Number	META SDC SLIFETY 3
Number	META_SPC_SUFFIX_3

2.1.17.3 Product type(s)

Product type(s)	18
	10

2.1.18 Meta SPC 3 composition

2.1.18.1 Qualitative and quantitative information on the composition of the meta SPC 3

Common name	IUPAC name		CAS number		Content (%)	
					Min	Max
2,2-	alchiorovinyi)-	Technical active substance	52315-07-8	257-842-9	0.54	0.87
Ethanol		Formulant	64-17-5		19.13	19.46

2.1.18.2 Type(s) of formulation of the meta SPC 3

AE - Aerosol dispenser

2.1.19 Hazard and precautionary statements according to Regulation (EC) 1272/2008 of the meta SPC 3

Classification and labelling of the products of the family according to the Regulation (EC) 1272/2008

Classification	
Hazard category	Flammable Aerosol 1 Eye Irritation 2
	Aquatic Acute 1
	Aquatic Chronic 1
Hazard statement	H222 Extremely flammable aerosol
	H229 Pressurised container: May burst if heated
	H319: Causes serious eye irritation
	H400: Very toxic to aquatic life
	H410: Very toxic to aquatic life with long lasting effects
Labelling	
Signal words	Danger
Hazard statements	H222 Extremely flammable aerosol
	H229 Pressurised container: May burst if heated
	H319: Causes serious eye irritation
	H410: Very toxic to aquatic life with long lasting effects

Classification	
Precautionary	P101: If medical advice is needed, have product container or
statements	label at hand.
	P102: Keep out of reach of children.
	P103: Read carefully and follow all instructions.
	P210: Keep away from heat, hot surfaces, sparks, open
	flames and other ignition sources. No smoking.
	P211: Do not spray on an open flame or other ignition
	source.
	P251: Do not pierce or burn, even after use.
	P264: Wash hands thoroughly after handling.
	P305+P351+P338: IF IN EYES: Rinse cautiously with
	water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
	P337+P313: If eye irritation persists: Get medical advice/ attention.
	P410+P412 Protect from sunlight. Do not expose to
	temperatures exceeding 50 °C/122 °F.
	P273: Avoid release to the environment
	P391: Collect spillage
	P403: Store in a well-ventilated place
	P501: Dispose of contents/container according to local
	regulation
Note	

2.1.20 Authorised use(s) of the META SPC 3

2.1.20.1 Use description

Table 4. Use # 1 –Flying and crawling insects – one-shot aerosol – non professional users

Product Type	18				
Where relevant, an	One-shot aerosol insecticide against flying and crawling				
exact description of the	insects				
authorised use	Jse in cellars, basements, crawl spaces, garages, boxes,				
	attics, barns, sheds or any other premises which are not wet-				
	cleaned.				
Target organism	Crawling insects including				
(including development	Cockroaches:				
stage)	German cockroaches (<i>Blattella germanica</i>)				
	American cockroaches (<i>Periplaneta americana</i>)				
	Flying insects including				
	, ,				
	Common house mosquito (Culex sp.)				
	House fly (<i>Musca domestica</i>)				
	Wasp (<i>Vespula sp.)</i>				
	Development stage: adults				
Field of use	Indoor				
Application method(s)	Fogging with a one-shot aerosol				

Application rate(s) and	1 mL/m³ (e.g. a can of 50 mL in a room up to 50 m³)
frequency	Exposure time: 4 hours
Category(ies) of users	General public (non professional)
Pack sizes and	Aerosol metal can without internal varnish valve PV
packaging material	50 to 750 mL
	·

2.1.20.2 Use-specific instructions for	· use
---	-------

2.1.20.3 Use-specific risk mitigation measures

2.1.20.4 Where specific to the use, the particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment

-

2.1.20.5 Where specific to the use, the instructions for safe disposal of the product and its packaging

-

2.1.20.6 Where specific to the use, the conditions of storage and shelf-life of the product under normal conditions of storage

-

- **2.1.21** General directions for use of the meta SPC 3
- **2.1.21.1** Instructions for use
 - Comply with the instructions for use.
 - Apply only on infested area.
 - Avoid continuous use of the product.
 - Inform the registration holder if the treatment is ineffective.
 - Ventilate after re-entering the room.

2.1.21.2 Risk mitigation measures

- Do not use directly on or near food, feed or drinks, or on surfaces or utensils likely to be in direct contact with food, feed, drinks and livestock.
- Do not use in places where food or feed is stored, prepared or eaten.
- Wash hands after use.
- Leave the room directly after spraying process is triggered.
- Do not enter the room before a waiting time of 4h.
- Keep cats away from treated surfaces. Due to their particular sensitivity to pyrethroids toxicity, the product can cause severe adverse reactions in cats.
- The product must be applied at the claimed application rate of 1 ml/m³.

- The product is only for indoor use and to be strictly applied in non wet-cleaned premises (cellars, basements, crawl spaces, garages, boxes, attics, barns, sheds)
- Do not use where release to drains (sewer) and/or surface water cannot be prevented.
- Do not use where the biocidal product can be discharged to municipal sewage treatment plant.
- Dry clean (broom or vacuum cleaner) treated area and dispose of residues to hazardous solid waste in order to prevent releases to water.

2.1.21.3 Particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment

- If medical advice is needed, have product container or label at hand.
- IF IN EYES: Rinse with water. Remove contact lenses, if present and easy to do. Continue rinsing for 5 minutes. Call a POISON CENTRE or a doctor.
- IF ON SKIN: Wash skin with water. If symptoms occur call a POISON CENTRE or a doctor.
- IF INHALED: If symptoms occur call a POISON CENTRE or a doctor.
- IF SWALLOWED: Rinse mouth. Give something to drink, if exposed person is able to swallow. Do NOT induce vomiting. Call a POISON CENTRE or a doctor.
- Pyrethroids may cause paresthesia (burning and prickling of the skin without irritation). If symptoms persist: Get medical advice

2.1.21.4 Instructions for safe disposal of the product and its packaging

- Do not discharge unused product on the ground, into watercourses, into pipes (sink, toilets...) nor down the drains.
- Dispose of unused product, its packaging and all other waste, in accordance with local regulations.

2.1.21.5 Conditions of storage and shelf-life of the product under normal conditions of storage

- Keep the container tightly closed in a dry and well-ventilated room.
- Pressurized container: May burst if heated. Do not pierce or burn, even after use. Protect from sunlight.
- Do not store at temperature > 40°C.
- Keep packaging away from sources of heat, sparks and open flame.
- Shelf-life: 24 months.
- Keep out of reach of children and non-target animals/pets.

2.1.22			
	Othic	,, ,,,,	formation

-

PART III - THIRD INFORMATION LEVEL: INDIVIDUAL PRODUCTS IN THE META SPC 3

2.1.23 Trade name(s), authorisation number and specific composition of each individual product

Trade name(s)	ANTISECT C5 IG CYP OS5 L'ELFE INSECTICIDE ONE-SHOT RAMPANTS & VOLANTS BLASTOR INSECTICIDE ONE-SHOT RAMPANTS & VOLANTS INSECTICIDE RAMPANTS ET VOLANTS ONE-SHOT F-A56 INS AEROSOL OS CY INSTANTANE OS CY ACTO / MORTIS VOLANTS - RAMPANTS SUBITO INSECTICIDE CHOC VOLANTS RAMPANTS SUBITO INSECTICIDE CHOC VOLANTS SUBITO INSECTICIDE CHOC RAMPANTS 10140SP KAP4HOME OS5				
Authorisation number					
Common name	IUPAC name	Function	CAS number	EC number	Content (%)
(RS)-a-cyano- 3phenoxybenzyl- (1RS)-cis, trans-3- (2,2- dichlorovinyl)-2,2- dimethylcycloprop anecarboxylate (Cypermethrin)	(RS)-a-cyano- 3phenoxybenzyl- (1RS)-cis, trans- 3-(2,2- dichlorovinyl)- 2,2- dimethylcyclopro panecarboxylate	Technical active substance	52315-07- 8	257-842-9	0.54
Ethanol		Formulant	64-17-5		19.46

Trade name(s)	OS2
	ANTISECT C8
	IG CYP OS8
	AEROSOL ONE SHOT CY
	INSTANTANE CHOC CY
	ACTO / MORTIS SPÉCIAL VOLANTS - RAMPANTS
	SUBITO INSECTICIDE FLASH VOLANTS
	SUBITO INSECTICIDE FLASH RAMPANTS
	SUBITO TOUT INSECTES CHOC
	1014OSP2
	INSECTICHOC ONE SHOT
	NETINSECT ONESHOT

	KAP4HOME OS8 CYPER OS				
Authorisation number					
Common name	IUPAC name	Function	CAS number	EC number	Content (%)
(RS)-a-cyano- 3phenoxybenzyl- (1RS)-cis, trans-3- (2,2- dichlorovinyl)-2,2- dimethylcycloprop anecarboxylate (Cypermethrin)	(RS)-a-cyano- 3phenoxybenzyl- (1RS)-cis, trans- 3-(2,2- dichlorovinyl)- 2,2- dimethylcyclopro panecarboxylate	Technical active substance	52315-07- 8	257-842-9	0.87
Ethanol		Formulant	64-17-5		19.13

PART II - SECOND INFORMATION LEVEL - META SPC 5

2.1.24 Meta SPC 5 administrative information

2.1.24.1 Meta SPC identifier

Identification	Meta SPC5 EC
	1, , , , , , , , , , , , , , , , , , ,

2.1.24.2 Suffix to the authorisation number

2.1.24.3 Product type(s)

Product type(s)	18
-----------------	----

2.1.25 Meta SPC 5 composition

2.1.25.1 Qualitative and quantitative information on the composition of the meta SPC 5

	IUPAC name	Function	CAS number	EC number	Conte (%)	ent
					Min	Max
(RS)-d-cyano- 3phenoxybenzyl- (1RS)-cis, trans-3- (2,2-dichlorovinyl)- 2,2- dimethylcyclopropane carboxylate (Cypermethrin)	aichiorovinyi	Technical active substance	52315-07-8	257-842-9	10.87	10.87

2.1.25.2 Type(s) of formulation of the meta SPC 5

SL - Soluble concentrate

2.1.26 Hazard and precautionary statements according to Regulation (EC) 1272/2008 of the meta SPC 5

Classification and labelling of the products of the family according to the Regulation (EC) 1272/2008

Classification				
Hazard category	STOT RE 2			
	Aquatic Acute 1			
	Aquatic Chronic 1			
Hazard statement	H373: May cause damage to organs (nervous system)			
	through prolonged or repeated exposure			
	H400: Very toxic to aquatic life			
	H410: Very toxic to aquatic life with long lasting effects			
Labelling				
Signal words	Warning			
Hazard statements	H373: May cause damage to organs (nervous system)			
	through prolonged or repeated exposure			
	H410: Very toxic to aquatic life with long lasting effects			

Classification		
Precautionary statements	P101: If medical advice is needed, have product container or label at hand. P102: Keep out of reach of children. P103: Read carefully and follow all instructions. P260: Do not breathe spray	
	P314: Get medical advice/attention if you feel unwell. P273: Avoid release to the environment P391: Collect spillage P501: Dispose of contents/container according to loca regulation	
Note		

2.1.27 Authorised use(s) of the META SPC 5

2.1.27.1 Use description

Table 8. Use # 2 -Flying and crawling insects - surface spray under buildings - non professional users

Product Type	18				
	Trigger spray insecticide against flying and crawling insects				
Where relevant, an					
exact description of the					
authorised use					
Target organism	Crawling insects including				
(including development	Cockroaches:				
stage)	German cockroaches (<i>Blattella germanica</i>)				
	American cockroaches (<i>Periplaneta americana</i>)				
	, ,				
	Flying insects including				
	Common house mosquito (<i>Culex sp.</i>)				
	House fly (<i>Musca domestica</i>)				
	, ,				
	Wasp (<i>Vespula sp.)</i>				
	Development stage: adults				
Field of use	Outdoor (under buildings)				
Application method(s)	Surface spraying				
Application rate(s) and	The product should be diluted to 2% in water before use				
frequency	according to the level of infestation.				
in equality	20 mL of diluted product /m ²				
	···				
	Residual effect up to 4 months.				
Category(ies) of users	General public (non professional)				
Pack sizes and	Fluorinated HDPE bottle/jerrycan, 0.25, 0.5 and 1L				
	Tuorinated Tibre bottle/jerrycan, 0.23, 0.3 and 16				
packaging material					

FR C	4	CHIMIGET_CYPER 18	
2.1.27	.2	Use-specific instructions for use	
2.1.27	.3	Use-specific risk mitigation measures	
- 2.1.27		Where specific to the use, the particulars of likely direct or ind	
-	environ	first aid instructions and emergency measures to protect ment	the
2.1.27		Where specific to the use, the instructions for safe disposal of and its packaging	f the
-			
2.1.27	_	Where specific to the use, the conditions of storage and shelf-liduct under normal conditions of storage	fe of

2.1.28 General directions for use of the meta SPC 5

2.1.28.1 Instructions for use

- Spray the product under buildings (i.e. crawlspaces).
- Comply with the instructions for use.
- Avoid continuous use of the product.
- Apply only on infested area.
- Contact time is 24 H to 72H with regards to the kind of surfaces and species.
- Inform the registration holder if the treatment is ineffective.
- The diluted product must be shaken before each use and during application.

2.1.28.2 Risk mitigation measures

- Do not use directly on or near food, feed or drinks, or on surfaces or utensils likely to be in direct contact with food, feed, drinks and livestock.
- Keep cats away from treated surfaces. Due to their particular sensitivity to pyrethroids toxicity, the product can cause severe adverse reactions in cats.

2.1.28.3 Particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment

- If medical advice is needed, have container or label at hand.
- IF IN EYES: If symptoms occur rinse with water. Remove contact lenses, if present and easy to do. Call a POISON CENTRE or a doctor.
- IF ON SKIN: Wash skin with water. If symptoms occur call a POISON CENTRE or a doctor.
- IF INHALED: If symptoms occur call a POISON CENTRE or a doctor.
- IF SWALLOWED: If symptoms occur call a POISON CENTRE or a doctor.
- Pyrethroids may cause paresthesia (burning and prickling of the skin without irritation). If symptoms persist: Get medical advice

2.1.28.4 Instructions for safe disposal of the product and its packaging

- Do not discharge unused product on the ground, into watercourses, into pipes (sink, toilets...) nor down the drains.
- Dispose of unused product, its packaging and all other waste, in accordance with local regulations.

2.1.28.5 Conditions of storage and shelf-life of the product under normal conditions of storage

- Keep the container tightly closed in a dry and well-ventilated room.
- Protect from sunlight.
- Protect from frost.
- Do not store at temperature > 40°C.
- Shelf-life: 24 months.
- Keep out of reach of children and non-target animals/pets.

2.1.29 Other information

- This biocidal product contains cypermethrin which is dangerous to bees.

PART III - THIRD INFORMATION LEVEL: INDIVIDUAL PRODUCTS IN THE META SPC 5

2.1.30 Trade name(s), authorisation number and specific composition of each individual product

Trade name(s)	EC PARASECT CYP10 IG SECTICHOC CYP10 INSECTICYP 10 F-28 INS ACTO / MORTIS LIQUIDE CONCENTRÉ VOLANTS - RAMPANTS SUBITO INSECTICIDE CONCENTRE VOLANTS RAMPANTS SUBITO CONCENTRE ANTI-INSECTES 1015C PIPEROCIDE CYP AQUASECT CYP KAP4HOME CYP10 CYPER KILL				
Authorisation number					
Common name	IUPAC name	Function	CAS number	EC number	Content (%)
(RS)-a-cyano- 3phenoxybenzyl- (1RS)-cis, trans-3- (2,2- dichlorovinyl)-2,2- dimethylcycloprop anecarboxylate (Cypermethrin)	(RS)-a-cyano- 3phenoxybenzyl- (1RS)-cis, trans- 3-(2,2- dichlorovinyl)- 2,2- dimethylcyclopro panecarboxylate	Technical active substance	52315-07- 8	257-842-9	10.87

PART II - SECOND INFORMATION LEVEL - META SPC 6

2.1.31 Meta SPC 6 administrative information

2.1.31.1 Meta SPC identifier

Identification Meta SPC 6

FR CA CHIMIGET_CYPER 18

2.1.31.2 Suffix to the authorisation number

Number	META SPC SUFFIX 6
Number	MILIA SPC SULLIA U

2.1.31.3 Product type(s)

Product type(s) 18

2.1.32 Meta SPC 6 composition

2.1.32.1 Qualitative and quantitative information on the composition of the meta SPC 6

Common name	IUPAC name	Function	CAS number	EC number	Content (%)	
					Min	Max
(RS)-d-cyano- 3phenoxybenzyl- (1RS)-cis, trans-3- (2,2-dichlorovinyl)-	MICHIOTOVINVI	Technical active substance	52315-07-8	257-842-9	0.22	0.22
ethanol		Formulant	64-17-5		29.78	29.78

2.1.32.2 Type(s) of formulation of the meta SPC 6

AE, aerosol dispenser

2.1.33 Hazard and precautionary statements according to Regulation (EC) 1272/2008 of the meta SPC 6

Classification and labelling of the products of the family according to the Regulation (EC) 1272/2008

Classification	
Hazard category	Flammable Aerosol 1
	Eye Irritation 2
	Aquatic Acute 1
	Aquatic Chronic 1
Hazard statement	H222: Extremely flammable aerosol
	H229: Pressurised container: May burst if heated
	H319: Causes serious eye irritation
	H400: Very toxic to aquatic life
	H410: Very toxic to aquatic life with long lasting effects

Classification	
Labelling	
Signal words	Danger
Hazard statements	H222: Extremely flammable aerosol
	H229: Pressurised container: May burst if heated
	H319: Causes serious eye irritation
	H410: Very toxic to aquatic life with long lasting effects
Precautionary statements	P101: If medical advice is needed, have product container or label at hand. P102: Keep out of reach of children.
	P103: Read carefully and follow all instructions.
	P210: Keep away from heat, hot surfaces, sparks, open flames andother ignition sources. No smoking.
	P211: Do not spray on an open flame or other ignition
	source.
	P251: Do not pierce or burn, even after use.
	P264: Wash hands thoroughly after handling. P305+P351+P338: IF IN EYES: Rinse cautiously with
	water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
	P337+P313: If eye irritation persists: Get medical advice/
	P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
	P273: Avoid release to the environment
	P391: Collect spillage
	P403: Store in a well-ventilated place.
	P501: Dispose of contents/container according to local
	regulation
Note	

2.1.34 Authorised use(s) of the META SPC 6

2.1.34.1 Use description

Table 5. Use # 1 – Flying and crawling insects - direct spray – non professional users

Product Type	18
Where relevant, an	
exact description of the	
authorised use	
Target organism	Crawling insects including
(including development	Cockroaches:
	German cockroaches (<i>Blattella germanica</i>) American cockroaches (<i>Periplaneta americana</i>)
	Flying insects including Common house mosquito (<i>Culex sp.</i>) House fly (<i>Musca domestica</i>) Wasp (<i>Vespula sp.</i>)

	Development stage: adults		
Field of use	Outdoor		
Application method(s)	Direct spraying		
Application rate(s) and	2.5g of product (1 second spraying)		
frequency			
Category(ies) of users	General public (non professional)		
Pack sizes and	Aerosol metal can without internal varnish valve VP 195		
packaging material	150 to 750 mL		

2.1.34.2 Use-specific instructions for use

FR CA

- The user should be aware that a delay of up to 1 hour may be encountered before death.

2.1.34.3 Use-specific risk mitigation measures

- Due to their particular sensitivity to pyrethroids toxicity, the product can cause severe adverse reactions in cats.
- **2.1.34.4** Where specific to the use, the particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment

-

2.1.34.5 Where specific to the use, the instructions for safe disposal of the product and its packaging

-

2.1.34.6 Where specific to the use, the conditions of storage and shelf-life of the product under normal conditions of storage

-

2.1.34.7 Use description

Table 6. Use # 2 - Fying and crawling insects - target surface spray - non professional users

Product Type	18
Where relevant, an	Trigger spray insecticide against flying and crawling insects
exact description of the	
authorised use	
Target organism	Crawling insects:
(including development	Cockroaches:
	German cockroaches (<i>Blattella germanica</i>)
	American cockroaches (<i>Periplaneta Americana</i>)
	Flying insects
	Common house mosquito (<i>Culex sp.</i>)

	House fly (<i>Musca domestica</i>) Wasp (<i>Vespula sp.)</i>			
	Development stage: adults			
Field of use	Outdoor			
	Target surface spraying as spots application (flying insects) or in cracks and crevices (crawling insects)			
frequency	Application rate: 17.5 g product/m² (7 seconds/m²) or 1.4 seconds/m)			
	Residual effect up to 4 months.			
	General public (non professional)			
Pack sizes and	Aerosol metal can without internal varnish valve VP 195			
packaging material	150 to 750 mL			

2.1.34.8 Use-specific instructions for use

- Contact time is 24 H to 72H with regards to the kind of surfaces and species.
- The product has to be applied only on restricted areas on surfaces not regularly cleaned and protected from the rain.

2.1.34.9 Use-specific risk mitigation measures

- Apply outdoor only on hard surface under a roof, on areas that are not liable to submersion or becoming wet, i.e. protected from rain, floods and cleaning water.
- Keep cats away from treated surfaces. Due to their particular sensitivity to pyrethroids toxicity, the product can cause severe adverse reactions in cats.
- **2.1.34.10** Where specific to the use, the particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment

-

2.1.34.11 Where specific to the use, the instructions for safe disposal of the product and its packaging

-

2.1.34.12 Where specific to the use, the conditions of storage and shelf-life of the product under normal conditions of storage

-

2.1.35 General directions for use of the meta SPC 6

2.1.35.1 Instructions for use

- Comply with the instructions for use.
- Avoid continuous use of the product.
- Apply only on infested area.

- Inform the registration holder if the treatment is ineffective.

2.1.35.2 Risk mitigation measures

- Do not use directly on or near food, feed or drinks, or on surfaces or utensils likely to be in direct contact with food, feed, drinks and livestock.
- Wash hands after use.

2.1.35.3 Particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment

- If medical advice is needed, have product container or label at hand.
- IF IN EYES: Rinse with water. Remove contact lenses, if present and easy to do. Continue rinsing for 5 minutes. Call a POISON CENTRE or a doctor.
- IF ON SKIN: Wash skin with water. If symptoms occur call a POISON CENTRE or a doctor.
- IF INHALED: If symptoms occur call a POISON CENTRE or a doctor.
- IF SWALLOWED: Rinse mouth. Give something to drink, if exposed person is able to swallow. Do NOT induce vomiting. Call a POISON CENTRE or a doctor.
- Pyrethroids may cause paresthesia (burning and prickling of the skin without irritation). If symptoms persist: Get medical advice

2.1.35.4 Instructions for safe disposal of the product and its packaging

- Do not discharge unused product on the ground, into watercourses, into pipes (sink, toilets...) nor down the drains.
- Dispose of unused product, its packaging and all other waste, in accordance with local regulations.

2.1.35.5 Conditions of storage and shelf-life of the product under normal conditions of storage

- Keep the container tightly closed in a dry and well-ventilated room.
- Pressurized container: May burst if heated. Do not pierce or burn, even after use. Protect from sunlight.
- Do not store at temperature > 40°C.
- Keep packaging away from sources of heat, sparks and open flame.
- Shelf-life: 24 months.
- Keep out of reach of children and non-target animals/pets.

2.1.36 Other information

This biocidal product contains cypermethrin which is dangerous to bees.

PART III - THIRD INFORMATION LEVEL: INDIVIDUAL PRODUCTS IN THE META SPC 6

2.1.37 Trade name(s), authorisation number and specific composition of each individual product

Trade name(s)	AE FC1 PARASECT AC2 L'ELFE INSECTICIDE SPECIAL RAMPANTS L'ELFE INSECTICIDE SPECIAL VOLANTS-RAMPANTS L'ELFE INSECTICIDE SPECIAL VOLANTS BLASTOR INSECTICIDE SPECIAL RAMPANTS BLASTOR INSECTICIDE VOLANTS-RAMPANTS BLASTOR INSECTICIDE SPECIAL VOLANTS INSECTICIDE ANTI-RAMPANTS INSECTICIDE ANTI-VOLANTS INSECTICIDE ANTI-VOLANTS SUBITO AEROSOL ANTI VOLANTS RAMPANTS SUBITO AEROSOL FLASH ANTI VOLANTS SUBITO AEROSOL FLASH ANTI RAMPANTS 123 MOUSTIQUES INSECTICIDES VOLANTS RAMPANTS 1014D RAYO-INSECTE VOLANTS-RAMPANTS KAP4HOME AC2				
Authorisation number					
Common name	IUPAC name	Function	CAS number	EC number	Content (%)
(RS)-a-cyano- 3phenoxybenzyl- (1RS)-cis, trans-3- (2,2- dichlorovinyl)-2,2- dimethylcycloprop anecarboxylate (Cypermethrin)	(RS)-a-cyano- 3phenoxybenzyl- (1RS)-cis, trans- 3-(2,2- dichlorovinyl)- 2,2- dimethylcyclopro panecarboxylate	Technical active substance	52315-07- 8	257-842-9	0.22
ethanol		Formulant	64-17-5		29.78

PART II - SECOND INFORMATION LEVEL - META SPC 7

2.1.38 Meta SPC 7 administrative information

2.1.38.1 Meta SPC identifier

Identification Meta SPC7

FR CA CHIMIGET_CYPER 18

2.1.38.2 Suffix to the authorisation number

	I
Number	META SPC SUFFIX 7

2.1.38.3 Product type(s)

Product type(s) 18

2.1.39 Meta SPC 7 composition

2.1.39.1 Qualitative and quantitative information on the composition of the meta SPC 7

Common name	IUPAC name	Function	CAS number		Content (%)	
					Min	Max
3phenoxybenzyl-	dichiorovinyi	Technical active substance	52315-07-8	257-842-9	0.22	0.22

2.1.39.2 Type(s) of formulation of the meta SPC 7

AL- Any other liquid

2.1.40 Hazard and precautionary statements according to Regulation (EC) 1272/2008 of the meta SPC 7

Classification and labelling of the products of the family according to the Regulation (EC) 1272/2008

Classification	
Hazard category	Aquatic Acute 1
	Aquatic Chronic 1
Hazard statement	H400: Very toxic to aquatic life
	H410: Very toxic to aquatic life with long lasting effects
Labelling	
Signal words	Warning
Hazard statements	H410: Very toxic to aquatic life with long lasting effects

Classification	
Precautionary statements	P103: Read label before use. P273: Avoid release to the environment P391: Collect spillage P501: Dispose of contents/container according to local regulation
Note	

2.1.41 Authorised use(s) of the META SPC 7

2.1.41.1 Use description

Table 5. Use # 1 -Flying and crawling insects - target surface spray - non professional users

oduct Type	18		
here relevant, an	Trigger spray insecticide against flying and crawling insects		
cact description of the			
ıthorised use			
arget organism	Crawling insects including		
ncluding development	Cockroaches:		
age)	German cockroaches (<i>Blattella germanica</i>)		
	American cockroaches (<i>Periplaneta americana</i>)		
	Flying insects		
	Common house mosquito (Culex sp.)		
	House fly (<i>Musca domestica</i>)		
•	Wasp (Vespula sp.)		
	Development stage: adults		
eld of use	Outdoor		
oplication method(s)	Spraying		
	Target surface spraying as spots application (flying insects) or		
į	in cracks and crevices (crawling insects)		
oplication rate(s) and	20 mL/m ² (equal to 4 mL/m)		
i	General public (non professional)		
ack sizes and	HDPE trigger spray (reference: Versaplast EU), 0.5, 0.75 and		
	1 L.		
oplication method(s) oplication rate(s) and equency ategory(ies) of users ack sizes and	Spraying Target surface spraying as spots application (flying insects) in cracks and crevices (crawling insects) 20 mL/m² (equal to 4 mL/m) Residual effect up to 4 months General public (non professional) HDPE trigger spray (reference: Versaplast EU), 0.5, 0.75 ar		

FR CA CHIMIGET_CYPER 18

2.1.41.2 Use-specific instructions for use

- The product has to be applied only on restricted areas on surfaces not regularly cleaned and protected from the rain.

2.1.41.3 Use-specific risk mitigation measures

- Apply outdoor only on hard surface under a roof, on areas that are not liable to submersion or becoming wet, i.e. protected from rain, floods and cleaning water.
- **2.1.41.4** Where specific to the use, the particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment

-

2.1.41.5 Where specific to the use, the instructions for safe disposal of the product and its packaging

-

2.1.41.6 Where specific to the use, the conditions of storage and shelf-life of the product under normal conditions of storage

-

2.1.41.7 Use description

Table 6. Use # 2 - Flying and crawling insects - surface spray under buildings - non professional users

Product Type	18
, .	Trigger spray insecticide against flying and crawling insects
exact description of the	, ,
authorised use	
	Crawling incosts including
	Crawling insects including
(including development	Cockroaches:
stage)	German cockroaches (<i>Blattella germanica</i>)
	American cockroaches (<i>Periplaneta americana</i>)
	,
	Flying insects
	Common house mosquito (<i>Culex sp.</i>)
	House fly (Musca domestica)
	Wasp (<i>Vespula sp.</i>)
	(**Copula op!)
	Development stage: adults
Field of use	Outdoor (under buildings)
Application method(s)	Spraying
Application rate(s) and	20 mL of product /m ²
frequency	Residual effect up to 4 months.
Category(ies) of users	General public (non professional)

Pack sizes and packaging material HDPE trigger spray (reference: Versaplast EU), 0.5, 0.75 and 1 L. 5 L HDPE jerrycan for refill. 2.1.41.8		_
- Spray the product under buildings (i.e. crawlspaces). 2.1.41.9 Use-specific risk mitigation measures - 2.1.41.10 Where specific to the use, the particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment - 2.1.41.11 Where specific to the use, the instructions for safe disposal of the		erial 1 L.
 2.1.41.9 Use-specific risk mitigation measures - 2.1.41.10 Where specific to the use, the particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment - 2.1.41.11 Where specific to the use, the instructions for safe disposal of the 	2.1.41.8	Use-specific instructions for use
2.1.41.10 Where specific to the use, the particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment 2.1.41.11 Where specific to the use, the instructions for safe disposal of the	- Spray the	product under buildings (i.e. crawlspaces).
effects, first aid instructions and emergency measures to protect the environment - 2.1.41.11 Where specific to the use, the instructions for safe disposal of the	2.1.41.9	Use-specific risk mitigation measures
·	effects,	first aid instructions and emergency measures to protect the
· · · · · · · · · · · · · · · · · · ·	-	
-		•
	-	

Where specific to the use, the conditions of storage and shelf-life of the product under normal conditions of storage

2.1.42 General directions for use of the meta SPC 7

2.1.42.1 Instructions for use

- Comply with the instructions for use.
- Avoid continuous use of the product.
- Apply only on infested area.
- Contact time is 24 H to 72H with regards to the kind of surfaces and species.
- Inform the registration holder if the treatment is ineffective.

2.1.42.2 Risk mitigation measures

- Do not use directly on or near food, feed or drinks, or on surfaces or utensils likely to be in direct contact with food, feed, drinks and livestock.
- Keep cats away from treated surfaces. Due to their particular sensitivity to pyrethroids toxicity, the product can cause severe adverse reactions in cats.

2.1.42.3 Particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment

- If medical advice is needed, have product container or label at hand.
- IF IN EYES: If symptoms occur rinse with water. Remove contact lenses, if present and easy to do. Call a POISON CENTRE or a doctor.
- IF ON SKIN: Wash skin with water. If symptoms occur call a POISON CENTRE or a doctor.
- IF INHALED: If symptoms occur call a POISON CENTRE or a doctor.
- IF SWALLOWED: If symptoms occur call a POISON CENTRE or a doctor.
- Pyrethroids may cause paresthesia (burning and prickling of the skin without irritation). If symptoms persist: Get medical advice

2.1.42.4 Instructions for safe disposal of the product and its packaging

- Do not discharge unused product on the ground, into watercourses, into pipes (sink, toilets...) nor down the drains.
- Dispose of unused product, its packaging and all other waste, in accordance with local regulations.

2.1.42.5 Conditions of storage and shelf-life of the product under normal conditions of storage

- Keep the container tightly closed in a dry and well-ventilated place.
- Protect from sunlight.
- Do not store at temperature > 40°C.
- Shelf-life: 12 months.
- Keep out of reach of children and non-target animals/pets.

2.1.43 Other information

This biocidal product contains cypermethrin which is dangerous to bees.

PART III - THIRD INFORMATION LEVEL: INDIVIDUAL PRODUCTS IN THE META SPC 7

2.1.44 Trade name(s), authorisation number and specific composition of each individual product

Trade name(s)	RTU1 PARACHOC C2 IG SECTISTOP CYP2 L'ELFE INSECTICIDE BLASTOR INSECTICIDE INSECTICIDE ACTO / MORTIS VOLANTS LIQUIDE SUBITO INSECTICIDE PAL VOLANTS RAMPANTS SUBITO INSECTICIDE VOLANTS PRÊT À L'EMPLOI SUBITO INSECTICIDE RAMPANTS PRÊT À L'EMPLOI 1015VGE KAP4HOME CYP2				
Authorisation number					
Common name	IUPAC name	Function	CAS number	EC number	Content (%)
(RS)-a-cyano- 3phenoxybenzyl- (1RS)-cis, trans-3- (2,2- dichlorovinyl)-2,2- dimethylcycloprop anecarboxylate (Cypermethrin)	(RS)-a-cyano- 3phenoxybenzyl- (1RS)-cis, trans- 3-(2,2- dichlorovinyl)- 2,2- dimethylcyclopro panecarboxylate	Technical active substance	52315-07- 8	257-842-9	0.22

2.1.45 Packaging of the biocidal product

Product	Type of packaging	Size/volu me of the packaging	Material of the packaging	Type and material of closure(s)	Intended user (e.g. professional, non- professional)	Compatibilit y of the product with the proposed packaging materials (Yes/No)
AE WH	Aerosol can	500 to 750 mL	Metal without internal varnish	Plastic spray nozzle (valve type FL)+ cap	Non- professional	Yes

AE FC1 AE FC2 AE FC3	Aerosol can	150 to 750 mL	Metal without internal varnish	Plastic spray nozzle (valve VP 195) + cap	Non- professional	Yes
OS1 OS2	Aerosol can	50 to 750 mL	Metal without internal varnish	Plastic spray nozzle (valve PV)+ cap	Non- professional	Yes
RTU1 RTU2 RTU3	Bottle	0.5, 0.75 and 1 L	HDPE	Plastic trigger spray (reference: Versaplast EU)	Non- professional	Yes
RTU1 RTU2 RTU3	Jerrycan	5 L	HDPE	Plastic screw cap	Non- professional	Yes
EC	Bottle	0.25, 0.5 and 1 L	Fluorinated HDPE	screw cap Plastic	Non- professional	Yes

Note: the authorisation holder also claimed the following packaging:

EC	lorrycan	5.1	Fluorinated	Plastic	Non-	Yes
LC	Jerrycan	J L	HDPE	screw cap	professional	

However as those packaging for non-professional use may lead to overuse or waste, an unacceptable risk for the environment cannot be excluded, unless the maximum package size for non-professional use are adapted to the claimed use. In the frame of this dossier, those packaging size are thus excluded for meta SPC5.

2.1.46 Documentation

2.1.46.1 Data submitted in relation to product application

Physico-chemical properties studies and analytical methods on the biocidal products family CHIMIGET_CYPER were provided by Groupe Chimiget.

2.1.46.2 Access to documentation

Groupe Chimiget has access to data on the active substance cypermethrin with a Letter of Access.

2.2 Assessment of the biocidal product family

The biocidal product family is not the same as the one assessed for the inclusion of the active substances in annex 1 of directive 98/8/EC. The composition of the product is confidential and is presented in a confidential annex. The product contains between 0.22 and 10.87% w/w technical cypermethrin cis/trans 40/60.

The biocidal product family does not contain PT6 preservative.

The family is composed of 7 Meta SPCs:

- Meta SPC 1 contains the product AE WH, a ready-to-use aerosol.
- Meta SPC 2 contains the products AE FC2 and AE FC3, ready-to-use aerosol.
- Meta SPC 3 contains the products OS1 and OS2, ready-to-use one-shot aerosol.
- Meta SPC 4 contains the products RTU2 and RTU3, ready-to-use trigger spray.
- Meta SPC 5 contains the product EC, concentrate (SL).
- Meta SPC 6 contains the product AE FC1, ready-to-use aerosol.
- Meta SPC 7 contains the product RTU1, ready-to-use trigger spray.

2.2.1 Intended use(s) as applied for by the applicant

Table 2.2.1-1. Use # 1 - Meta SPC 1 - AE WH - wasps and hornets aerosol

Product Type	PT18 - insecticide
Where relevant, an exact description of the authorised use	Aerosol insecticide against wasps and hornets
Target organism (including development stage)	Vespula: waspsVespa crabro: European hornetVespa velutina: Asian hornet Adults
Field of use	Outdoor use
Application method(s)	Direct spraying on insects
Application rate(s) and frequency	Application rate: 1 second spray (= 17.5 g of product) Frequency: as needed.
Category(ies) of users	Non-professionals

	Aerosol Metal can 500-750 mL
1. – –	See also paragraph 2.1.7 of this document and Section 12.3 of
	the IUCLID file.

Table 2.2.1-2. Use # 2 - Meta SPC 2 - AE FC - flying and crawling insects_direct spray

Product Type	PT18 - insecticide			
Where relevant, an exact description of the authorised use	Aerosol insecticide against flying and crawling insects			
Target organism (including development stage)	Flying and crawling insects Including - cockroaches - house flies - house mosquitoes - common wasps Adults			
Field of use	Outdoor use			
Application method(s)	Direct spraying on insects			
Application rate(s) and frequency	Application rate: 1 second spray = 2.5 g product Frequency: Avoid continuous use of the product. In case of infestation, use another pest control mean.			
Category(ies) of users	Non-professionals			
Pack sizes and packaging material	Aerosol Metal can 150-750 mL See also paragraph 2.1.7 of this document and Section 12.3 of the IUCLID file.			

Table 2.2.1-3. Use # 3 - Meta SPC 3 - OS - flying and crawling insects_space treatment

Product Type	PT18 - insecticide		
Where relevant, an exact description of the authorised use	One-shot aerosol insecticide against flying and crawling insects		
Target organism (including development stage)	Flying and crawling insects Including - cockroaches - house flies - house mosquitoes - common wasps Adults		
Field of use	Indoor use		

Application method(s)	Space spraying
Application rate(s) and frequency	Application rate: 1 mL/m ³ Frequency: as needed.
Category(ies) of users	Non-professionals
Pack sizes and packaging material	Aerosol Metal can 50-750 mL See also paragraph 2.1.7 of this document and Section 12.3 of the IUCLID file.

Table 2.2.1-4. Use # 4 - Meta SPC 4 - RTU - flying and crawling insects surface_spray_under buildings

Product Type	PT18 - insecticide	
Where relevant, an exact description of the authorised use	Trigger spray insecticide against flying and crawling insects	
Target organism (including development stage)	Flying and crawling insects Including - cockroaches - house flies - house mosquitoes - common wasps Adults	
Field of use	Outdoor use	
Application method(s)	Surface spraying under buildings	
Application rate(s) and frequency	Application rate: 20 mL/m ² Frequency: residual effect up to 4 months. Reapply in case of new infestation.	
Category(ies) of users	Non-professionals	
Pack sizes and packaging material	HDPE trigger spray, 0.5, 0.75 and 1 L 5 L HDPE jerrycan for refill See also paragraph 2.1.7 of this document and Section 12.3 of the IUCLID file.	

Table 2.2.1-5. Use # 5 - Meta SPC 5 - EC - flying and crawling insects_surface spray

Product Type	PT18 - insecticide
Where relevant, an exact description of the authorised use	Insecticide against flying and crawling insects

Target organism (including development stage)	rilying and crawling insects ncluding cockroaches house flies house mosquitoes common wasps				
Field of use	Outdoor use				
Application method(s)	arget surface spraying as spots in cracks and crevices				
Application rate(s) and frequency	Application rate: 20 mL/m² or 4 mL/meter, after 2% v/v dilution in water. Frequency: residual effect up to 4 months. Reapply in case of new infestation.				
Category(ies) of users	Non-professionals				
Pack sizes and packaging material	Fluorinated HDPE bottle/jerrycan, 0.25, 0.5, 1 and 5 L See also paragraph 2.1.7 of this document and Section 12.3 of the IUCLID file.				

Table 2.2.1-6. Use # 6 - Meta SPC 5 - EC - flying and crawling insects_surface spray_under buildings

Product Type	PT18 - insecticide						
Where relevant, an exact description of the authorised use	Trigger spray insecticide against flying and crawling insects						
Target organism (including development stage)	Flying and crawling insects Including - cockroaches - house flies - house mosquitoes - common wasps Adults						
Field of use	Outdoor use						
Application method(s)	Surface spraying under buildings						
Application rate(s) and frequency Application rate: 20 mL/m² after 2% to 8% dilution in wa Frequency: residual effect up to 4 months. Reapply in case of new infestation.							
Category(ies) of users	Non-professionals						
Pack sizes and packaging material	Fluorinated HDPE bottle/jerrycan, 0.25, 0.5, 1 and 5 L See also paragraph 2.1.7 of this document and Section 12.3 of the IUCLID file.						

Table 2.2.1-7. Use # 7 - Meta SPC 6 - AE FC1 - flying and crawling insects_direct spray

Product Type	PT18 - insecticide			
Where relevant, an exact description of the authorised use	Aerosol insecticide against flying and crawling insects			
Target organism (including development stage) Flying and crawling insects Including - cockroaches - house flies - house mosquitoes - common wasps Adults				
Field of use	Indoor and outdoor use			
Application method(s)	Direct spraying on insects			
Application rate(s) and frequency	Application rate: 1 second spray = 2.5 g product Frequency: as needed.			
Category(ies) of users	Non-professionals			
Pack sizes and packaging material	Aerosol Metal can 150-750 mL See also paragraph 2.1.7 of this document and Section 12.3 of the IUCLID file.			

Table 2.2.1-8. Use # 8 - Meta SPC 6 - AE FC1 - flying and crawling insects_surface spray

Product Type	PT18 – insecticide					
Where relevant, an exact description of the authorised use	Aerosol insecticide against flying and crawling insects					
Target organism (including development stage)	Flying and crawling insects Including - cockroaches - house flies - house mosquitoes - common wasps Adults					
Field of use	Indoor and outdoor use					
Application method(s)	Target surface spraying as spots in cracks and crevices					
Application rate(s) and frequency Application rate: 7 seconds/m ² = 17.5 g product/m ² Frequency: residual effect up to 4 months. Reapply in case of new infestation.						

Category(ies) of users	Non-professionals
Pack sizes and	Aerosol Metal can 150-750 mL
packaging material	See also paragraph 2.1.7 of this document and Section 12.3 of the IUCLID file.

Table 2.2.1-9. Use # 9 - Meta SPC 7 - RTU - flying and crawling insects_surface spray

Product Type	PT18 - insecticide					
Where relevant, an exact description of the authorised use	Trigger spray insecticide against flying and crawling insects					
Target organism (including development stage)	Flying and crawling insects Including - cockroaches - house flies - house mosquitoes - common wasps Adults					
Field of use	Outdoor use					
Application method(s)	Target surface spraying as spots in cracks and crevices					
Application rate(s) and frequency	Application rate: 20 mL/m² or 4 mL/meter Frequency: residual effect up to 4 months. Reapply in case of new infestation.					
Category(ies) of users	Non-professionals					
Pack sizes and packaging material	HDPE trigger spray, 0.5, 0.75 and 1 L 5 L HDPE jerrycan for refill See also paragraph 2.1.7 of this document and Section 12.3 of the IUCLID file.					

Table 2.2.1-10. Use # 10 - Meta SPC 7 - RTU - flying and crawling insects surface_spray_under buildings

Product Type	PT18 - insecticide
Where relevant, an exact description of the authorised use	Trigger spray insecticide against flying and crawling insects

Target organism (including development stage)	Flying and crawling insects Including - cockroaches - house flies - house mosquitoes - common wasps			
	Adults			
Field of use	Outdoor use			
Application method(s)	Surface spraying under buildings			
Application rate(s) and frequency	Application rate: 20 mL/m ² Frequency: residual effect up to 4 months. Reapply in case of new infestation.			
Category(ies) of users	Non-professionals			
Pack sizes and packaging material	HDPE trigger spray, 0.5, 0.75 and 1 L 5 L HDPE jerrycan for refill See also paragraph 2.1.7 of this document and Section 12.3 of the IUCLID file.			

2.2.2 Physical, chemical and technical properties

2.2.2.1 Physical, chemical and technical properties – Meta SPC 1, Meta SPC 2 and Meta SPC6

Some studies on physical, chemical and technical properties were performed on the product AE WH, which is the only product of the Meta SPC 1.

Studies on physical, chemical and technical properties were performed on the product AE FC 1 of the Meta-SPC 6, as the product of Meta-SPC 1 (AE WH) has the same composition than the product AE FC 1 of the Meta-SPC 6 (AE FC1) so the bridging between the two products is acceptable.

The detailed compositions of the products are given in Section 2 of the IUCLID file and in the confidential PAR.

Studies on physical, chemical and technical properties were performed on the product AE FC 1, which is the product having the lowest active substance content. As the only difference between the products of Meta SPC 2 and Meta SPC 6 is the active substance content, which varies between 0.20% w/w and 0.80% w/w of pure cypermethrin, this composition change is not expected to have any significant impact on the results obtained on the product AE FC 1.

Property	Guideline and Method	Purity of the test substance (% (w/w)	Results	FR Evaluation	Reference
Physical state at 20 °C and 101.3 kPa Colour at 20 °C and 101.3 kPa Odour at 20 °C and 101.3 kPa	Organoleptic and visual observations. No guideline required.	AE FC 1 (named AÉROSOL VOLANTS/RAMPA NTS in the study) Batch 20/091A01 Containing 0.208% w/w of cypermethrin	The liquid formulation without propellant gas of the product AE FC 1 was found to be a homogeneous colourless limpid liquid with characteristic odour before and after an accelerated storage procedure at 40 \pm 2°C for 8 weeks in its commercial packaging (210 mL multi-shot metal (tinplate) aerosol filled with 150 mL of test	Acceptable	Halbwachs P., 2020 Study no. 20- 3,
Acidity / alkalinity	-	Meta SPC 1, 2 and 6	The products of the Meta SPC 1, 2 and 6 are non-aqueous aerosol biocidal products and are not to be applied as aqueous dilutions. Therefore, the pH value is not determined on the products of the Meta SPC 2 and 6.	Acceptable	-
Relative density / bulk density	OECD Guideline No.109 (2012)	Liquid formulation without propellant gas of AE FC 1 (named AÉROSOL VOLANTS/RAMPA NTS in the study) Batch 20/091A01 Containing 0.698% w/w of cypermethrin	The mean relative density of liquid formulation without propellant gas of the product AE FC 1 was 0.794 at 20.0°C.	Acceptable	Halbwachs P., 2020 Study no. 20- 903071-001,

stability test – accelerated storage method (storage stability) (2000) Validated	AE FC 1 (named AÉROSOL VOLANTS/RAMPA NTS in the study) Batch 20/091A01	The test item AE FC 1 in its commercial packaging (210 mL multi-shot metal (tinplate) aerosol (valve VP 195) filled with 150 mL of test item) has been tested during an accelerated storage procedure for 8 weeks at 40 \pm 2°C.			Acceptable for the Meta SPC 1, 2 and 6, these products are stable 8 weeks at	Halbwachs P., 2020 Study no. 20- 903071-003,		
	analytical	Containing 0.208% w/w of cypermethrin 210 mL multi-shot metal (tinplate) aerosol filled with 150 mL of liquid formulation Analytical method, study No. 20- 903071-005 validated in analytical part of the PAR		T0	T 8 weeks at 40°C	40°C.		
method	cypermethrin 210 mL multi-shot metal (tinplate)		Test item	Homogeneous colourless limpid liquid with a characteristic odour	No change			
			Packaging	White opaque metal (tinplate) aerosol of 150 mL	No sign of degradation or leak was observed.			
	study No. 20- 903071-005 validated in analytical part of		study No. 20- 903071-005 validated in analytical part of	AS content with propellant gas	0.208%	0.210%		
					AS content without propellant gas	0.698%	0.704%	
			Variation	/	+0.9%			
			Ratio cis: trans	40.1/59.9	41.1/58.9			
			Weight (g)	147.7	147.2			
			Variation	/	-0.3%			
			Spray diameter and	21 cm circular	21 cm circular			
			pattern Spray volume	After 5-s spray 20.17 mL Spray rate: 3.17g/s	After 5-s spray 19.30 mL 3.06 g/s			

		Nozzles : no blocking	Nozzles : no	
		observed	blocking observed	
	Spray droplet	% of the respirable	/	
		volume fraction less	/	
	size	volume fraction less		
	distribution	than 10µm = 0		
	by laser			
	diffraction	Dv(0.1)=566.4 μm		
		Dv(0.5)=630.4 μm		
		Dv(0.9)=698.9 µm		
		D[3;2]=627.2µm		
		D[4;3]=631.7 µm		

18

Storage stability test – long term storage at ambient	Technical Monograph No.17, 2nd edition, CropLife Validated	AE FC 1 (named AÉROSOL VOLANTS/RAMPA NTS in the study) Batch 20/091A01 Containing	The long term on the test ite multi-shot me mL of test ite	em AE FC 1 etal (tinplate	in its comme e) aerosol (va	rcial packagin	g (210 mL	Acceptable The Meta SPC 1, 2 and 6 are stable 24 months at	Halbwachs P., 2022 Study no. 20- 903071-004,
temperature	analytical	0.208% w/w of		T0	T 6	T 12	T 24	ambient temperature.The	ļ
	method cypermethrin 210 mL multi-shot metal (tinplate) aerosol filled with 150 mL of liquid formulation Analytical method, study No. 20- 903071-005 validated in	Test item	Homoge neous colourles s limpid liquid with a character istic odour	months No change	months Homogene ous colourless limpid liquid with a characteris tic odour	months No change	pH has not been provided. However as the product is not an aqueous solution and as the product is a ready to use, no further		
		analytical part of the PAR	Packaging	White opaque metal (tinplate) aerosol of 150 mL	No sign of degradati on or leak was observed.	White opaque metal (tinplate) aerosol of 150 mL	No sign of degradati on or leak was observed.	data required.	
			AS content with propellant gas	0.208	0.203	0.208	0.210		
			AS content without propellant gas	0.698	0.681	0.697	0.704		
			Variation	/	-2.4%	-0.1%	+0.9%		
			Ratio cis: trans	59.94:40 .06	60.11:39. 89	59.22:40.7 8	58.51:41. 49		
			Variation of weight	/	-0.5%	-1.2%	-2.1%		

			Spray diameter and pattern	21 cm circular	20 cm circular	19 cm circular	24 cm circular		
			Spray volume	After 5-s spray 19.90 mL Spray rate: 2.98g/s Nozzles: no blocking observed	After 5-s spray 19.89 mL Spray rate: 3.11g/s Nozzles: no blocking observed	After 5-s spray 19.81 mL Spray rate: 3.10g/s Nozzles: no blocking observed	After 5-s spray 19.68 mL Spray rate: 3.02g/s Nozzles: no blocking observed		
Storage stability test – low temperature stability test	CIPAC MT 39.3 method (2000)	AE FC 1 (named AÉROSOL VOLANTS/RAMPA NTS in the study)	The test item multi-shot med mL of test item for 7 days at 0	tal (tinplaten) has beer to the contract to th	e) aerosol (va	llve VP 195) fi ng a low stora	lled with 150 ge procedure	Acceptable The meta SPC 2 and 6 are stable 7 days at 0°C.	Halbwachs P., 2020 Study no. 20- 903071-002,
for liquids		Batch 20/091A01 Containing	Tank ikawa	T0			s at 0°C		
		0.208% w/w of cypermethrin 210 mL multi-shot	Test item		eneous ess limpid liqu characteristic	No chai	nge		
		metal (tinplate) aerosol filled with 150 mL of	Packaging		paque metal e) aerosol of				

		liquid formulation	Spray diameter and pattern Spray volume	23 cm circular After 5-s spray 20.51 mL Spray rate: 3.09 g/s Nozzles: no blocking observed	23 cm circular After 5-s spray 20.59 mL 3.10 g/s Nozzles : no blocking observed		
Effects on content of the active substance and technical characteristics of the biocidal product - light	-	Meta SPC 1, 2 and 6	commercial pack shot metal (tinpl	ability to sunlight is not rec kaging of the products (210 late) aerosol), is opaque.	quired as the 0 mL, 650 mL multi-	Acceptable	-
Effects on content of the active substance and technical characteristics of the biocidal product – temperature and humidity	_	Meta SPC 1, 2 and 6	commercial pack accelerated stora to CIPAC MT 46. temperature sta 39.3 (Handbook The individual co hermetically sea	the Meta-SPC 2 (AE FC) in tagings are expected to be age procedure (8 weeks at 3 (Handbook J, 2000) and bility (7 days at $0 \pm 2^{\circ}$ C) and J, 2000) (please refer to Sommercial packagings of the led, the packagings are leady for humidity effects is not seen as $1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 $	stable after an 40 ± 2°C) according after a low according to CIPAC MT Section 3.4.1). The products are ak-tight, and	Data on temperature have been provided in the accelerated storage stability study and in the low temperature stability study.	-
Effects on content of the active substance and technical characteristics of the biocidal product - reactivity towards container material	-	-	See the storage temperature	stability test – long term s	storage at ambient	-	-

Wottability		Meta SPC 1, 2	Not required as the products of the Mota CDC 1 2 and 6	Not relevant for	
Wettability	-		Not required as the products of the Meta SPC 1, 2 and 6		-
Communication that		and 6	are non-aqueous aerosol biocidal products.	an AE formulation	
Suspensibility,	-	Meta SPC 1, 2	Not required as the products of the Meta SPC 1, 2 and 6	Not relevant for	-
spontaneity		and 6	are non-aqueous aerosol biocidal products.	an AE formulation	
and dispersion					
stability					
Wet sieve	-	Meta SPC 1, 2	Not required as the products of the Meta SPC 1, 2 and 6	Not relevant for	-
analysis and		and 6	are non-aqueous aerosol biocidal products.	an AE formulation	
dry sieve test					
Emulsifiability,	-	Meta SPC 1, 2	Not required as the products of the Meta SPC 1, 2 and 6	Not relevant for	-
re-		and 6	are non-aqueous aerosol biocidal products.	an AE formulation	
emulsifiability			·		
and emulsion					
stability					
Disintegration	-	Meta SPC 1, 2	Not required as the products of the Meta SPC 1, 2 and 6	Not relevant for	-
time		and 6	are non-aqueous aerosol biocidal products.	an AE formulation	
Particle size distribution, content of dust/fines, attrition, friability	CIPAC MT 187 (2003) ISO 13320- 2009	AE FC 1 (named AÉROSOL VOLANTS/RAMPA NTS with (valve VP 195) in the study) Batch 20/091A01 Containing 0.208% w/w of cypermethrin 210 mL multi-shot metal (tinplate) aerosol filled with 150 mL of liquid formulation	The spray droplet size distribution of the test item AE FC 1 in its commercial packaging (210 mL multi-shot metal (tinplate) aerosol filled with 150 mL of test item) was determined by laser diffraction. The percentage of the respirable volume fraction less than 10 μ m is zero. Mean on the three sprays: Dv(0.1) = 566.4 μ m Dv(0.5) = 630.4 μ m	Acceptable	Halbwachs P., 2020 Study no. 20- 903071-003, Demangel B., 2021 Study no. 21- 903071-001,

		AE WH Batch 20/094B01 Containing 0.461% w/w of cypermethrin 650 mL multi-shot metal (tinplate) aerosol with valve type FL filled with 500 mL of liquid formulation	The spray droplet size distribution of the test item AE WH in its commercial packaging (650 mL multi-shot metal (tinplate) aerosol filled with 500 mL of test item) was determined by laser diffraction. The percentage of the respirable volume fraction less than 10 μm is zero. Mean on the three sprays: Dv(0.1) = 415.9 μm Dv(0.5) = 466.4 μm Dv(0.9) = 523.8 μm		
Persistent foaming	-	Meta SPC 1, 2 and 6	Not required as the products of the Meta SPC 1, 2 and 6 are non-aqueous aerosol biocidal products.	Not relevant for an AE formulation	-
Flowability/Pou rability/Dustab ility	-	Meta SPC 1, 2 and 6		Not relevant for an AE formulation	-
Burning rate — smoke generators	-	Meta SPC 1, 2 and 6	Not required as the products of the Meta SPC 1, 2 and 6 are non-aqueous aerosol biocidal products.	Not relevant for an AE formulation	-
Burning completeness — smoke generators	-	Meta SPC 1, 2 and 6	Not required as the products of the Meta SPC 1, 2 and 6 are non-aqueous aerosol biocidal products.	Not relevant for an AE formulation	-
Composition of smoke — smoke generators	-	Meta SPC 1, 2 and 6	Not required as the products of the Meta SPC 1, 2 and 6 are non-aqueous aerosol biocidal products.	Not relevant for an AE formulation	-
Spraying pattern — aerosols	FEA 644 (2009)	AE FC 1 (named AÉROSOL VOLANTS/RAMPA NTS with (valve VP 195) in the study) Batch 20/091A01 Containing 0.208% w/w of cypermethrin 210 mL multi-shot	At initial time, the mean spray diameter of the 210 mL multishot metal (tinplate) aerosol (filled with 150 mL of test item AE FC 1) was 21 cm and the shape of the spray on the wetted patch was circular. The mean volume of test item after a 5-s spray of the multi-shot aerosol was 20.17 mL and the mean spray rate was 3.17 g/s. After 8 weeks at $40 \pm 2^{\circ}$ C, the mean spray diameter of the 210 mL multi-shot metal (tinplate) aerosol (filled with 150 mL of test item) was 21 cm and the shape of the spray on the wetted patch was circular.	Acceptable	Halbwachs P., 2020 Study no. 20- 903071-002, Demangel B., 2021 Study no. 21- 903071-001,

	metal (tinplate) aerosol filled with 150 mL of liquid formulation	The mean volume of test item after a 5-s spray of the multi-shot aerosol was 19.30 mL and the mean spray rate was 3.06 g/s. At initial time, the mean spray diameter of the 210 mL multi-shot metal (tinplate) aerosol (filled with 150 mL of test item AE FC 1) was 23 cm and the shape of the spray on the wetted patch was circular. The mean volume of test item after a 5-s spray of the multi-shot aerosol was 20.51 mL and the mean spray rate was 3.09 g/s. After 7 days at 0 \pm 2°C, the mean spray diameter of the 210 mL multi-shot metal (tinplate) aerosol (filled with 150 mL of test item) was 23 cm and the shape of the spray on the wetted patch was circular. The mean volume of test item after a 5-s spray of the multi-shot aerosol was 20.59 mL and the mean spray rate was 3.10 g/s.		Hertz D., 2022 Study n°5561-156- 22,
	AE FC 1 (named Insecticide VOLANTS/RAMPA NTS with (valve VP 195) in the study) Batch 20/091A01 AE WH Batch 20/094B01 Containing 0.461% w/w of cypermethrin 650 mL multi-shot metal (tinplate) aerosol with valve type FL filled with 500 mL of liquid formulation	An additional study has been provided: The mean spray diameter of the 210 mL multi-shot metal (tinplate) aerosol (filled with 150 mL of test item AE FC 1) was 10 cm and the shape of the spray on the wetted patch was circular during 0.3s. The mean spray rate was 3.22 g/s. The packaging and the valve were not specified. The mean spray diameter of the 650 mL multi-shot metal (tinplate) aerosol (filled with 500 mL of test item AE WH) was 17 cm and the shape of the spray on the wetted patch was circular. The mean volume of test item after a 5-s spray of the multi-shot aerosol was 119 mL and the mean spray rate was 18.4 g/s.		
Physical - compatibility	Meta SPC 1, 2 and 6	Not applicable. The products of the Meta SPC 1, 2 and 6 are not intended to be used in conjunction with any other products or active substances.	Acceptable	-

Chemical compatibility	-	Meta SPC 1, 2 and 6	Not applicable. The products of the Meta SPC 1, 2 and 6 are not intended to be used in conjunction with any other products or active substances.	Acceptable	-
Degree of dissolution and dilution stability	-	Meta SPC 1, 2 and 6	Not applicable. The products of the Meta SPC 1, 2 and 6 are not intended to be used in conjunction with any other products or active substances.	Acceptable	-
Surface tension	OECD Test Guideline115 (1995)	Liquid formulation without propellant gas of AE FC 1 (named AÉROSOL VOLANTS/RAMPA NTS in the study) Batch 20/091A01 Containing 0.698% w/w of cypermethrin	The mean surface tension of liquid formulation without propellant gas of the product AE FC 1 was 22.1 mN/m at 20.3°C. The test item was considered as surface-active in the experimental conditions used.	Acceptable for Meta SPC 2 and 6	Halbwachs P., 2020 Study no. 20- 903071-001,
Viscosity	OECD Test Guideline 114 (2012) ISO 3219 (1993)	Liquid formulation without propellant gas of AE FC 1 (named AÉROSOL VOLANTS/RAMPA NTS in the study) Batch 20/091A01 Containing 0.698% w/w of cypermethrin	The mean dynamic viscosity of the liquid formulation without propellant gas of the product AE FC 1 was found to be 1.38 mPa.s at $20.0 \pm 0.2^{\circ}$ C and 0.99 mPa.s at $40.0 \pm 0.2^{\circ}$ C. The test item was considered to have newtonian properties in the experimental conditions used.	Acceptable for Meta SPC 2 and 6	Halbwachs P., 2020 Study no. 20- 903071-001,

2.2.2.2 Physical, chemical and technical properties - Meta SPC 3

Studies on physical, chemical and technical properties were performed on the product OS 1, which is the product having the lowest active substance content of this Meta SPC. As the only difference between the 2 products of this Meta SPC is the active substance content, which varies between 0.50% w/w and 0.80% w/w of pure cypermethrin, this composition change is not expected to have any significant impact on the results obtained on the product OS 1.

Property	Guideline and Method	Purity of the test substance (% (w/w)	Results	FR Evaluation	Reference
Physical state at 20 °C and 101.3 kPa Colour at 20 °C and 101.3 kPa Odour at 20 °C and 101.3 kPa	Organoleptic and visual observations. No guideline required	OS 1 (named ONE SHOT AUTO PERCUTANT with valve PV in the study) Batch 20/093A01 Containing 0.516% w/w of cypermethrin	The liquid formulation without propellant gas was found to be a homogeneous colourless limpid liquid with characteristic odour before and after an accelerated storage procedure at $40 \pm 2^{\circ}$ C for 8 weeks in its commercial packaging (210 mL one-shot metal (tinplate) aerosol filled with 150 mL of test item)	Acceptable	Halbwachs P., 2020 Study no. 20- 8
Acidity / alkalinity	-	Meta SPC 3	The products of the Meta SPC 3 are non-aqueous aerosol biocidal products and are not to be applied as aqueous dilutions. Therefore, the pH value is not determined on the products of the Meta SPC 3	Acceptable	-
Relative density / bulk density	ECD Guideline No.109 (2012)	Liquid formulation without propellant gas of OS 1 (named ONE SHOT AUTO PERCUTANT in the study) Batch 20/093A01 Containing 2.56% w/w of cypermethrin	The mean relative density of liquid formulation without propellant gas of the product OS 1 was 0.799 at 20.0°C.	Acceptable	Halbwachs P., 2020 Study no. 20- 903071-006,

Storage stability test – accelerated storage	CIPAC MT 46.3 method (storage stability) (2000) Validated	OS 1 (named ONE SHOT AUTO PERCUTANT with valve PV in the study)	shot metal (tinp	S 1 in its commercial pac late) aerosol with valve F een tested during acceler 0 ± 2°C.	V filled with 150 mL of	Acceptable The products are stable 8 weeks at 40°C.	Halbwachs P., 2020 Study no. 20- 903071-008,
	analytical method	Batch 20/093A01 Containing 0.516% w/w of cypermethrin	Test item	Homogeneous colourless limpid liquid with a characteristic odour	No change		
		210 mL one-shot metal (tinplate) aerosol filled with	Packaging	White opaque metal (tinplate) aerosol of 150 mL	No sign of degradation or leak was observed.		
		150 mL of liquid formulation	AS content with propellant gas	0.516%	0.526%		
			AS content without propellant gas	2.56%	2.61%		
			Variation	/	+2%		
			Ratio cis: trans	40.1/59.9	41.1/58.9		
			Weight (g)	147.7	147.2		
			Variation	/	-0.2%		
			Spray diameter and pattern	11 cm circular	10 cm circular		
			Spray volume	After one-shot 112.35 mL Spray rate: 0.44g/s Nozzles: no blocking observed	After one-shot 111.97 mL 0.47 g/s Nozzles : no blocking observed		
							72

D[3;2]=675.8 µm D[4;3]=676.7 µm			Spray droplet size distribution by laser diffraction	% of the respirable volume fraction less than 10 μm = 0. Dv(0.1)=636.1 μm Dv(0.5)=678.3 μm Dv(0.9)=718.4 μm D[3;2]=675.8 μm D[4;3]=676.7 μm			
---------------------------------	--	--	--	--	--	--	--

Storage stability test – long term storage at ambient temperature	Technical Monograph No.17, 2nd edition, CropLife Validated analytical method	OS 1 (named ONE SHOT AUTO PERCUTANT in the study) Batch 20/093A01 Containing 0.516% w/w of cypermethrin 210 mL one-shot metal (tinplate) aerosol filled with	on the tes mL one-sh item) is de the product packaging ratio, the volume, th	erm storage statitem product (not metal (tinplate of the stailed below. To the stailed the weight, the cypermethe satisfactory open as pray diamete on the state of the satisfactory open spray diamete on the satisfactory of the satisfactory open spray diamete on the satisfactory of the satisfactory open spray diamete on the satisfactory of the satisfactory open spray diamete satisfactory of the satisfac	OS 1 in its conte) acrosol fine results related and the appring content acration of the ter and patterns.	immercial pacifiled with 150 lated to the appearance of it and its cis-/tra aerosol and trn, after stora	kaging (210 mL of test opearance of its commercial ins- isomers he spray ge for 6, 12	Acceptable The meta SPC 3 is stable 24 months at ambient temperature. The pH has not been provided. However as the product is not an	Halbwachs P., 2020 Study no. 20- 903071-009,
		150 mL of liquid formulation		T0	T 6 months	T 12 months	T 24 months	aqueous solution	
		Analytical study No.20-903071- 005 validated	Test item	Homogeneo us colourless limpid liquid with a characteristi c odour	No sign of degradati on or leak	No sign of degradatio n or leak	No sign of degradati on or leak	and as the product is a ready to use , no further data required	
			Packagi ng	White opaque metal (tinplate) aerosol of 150 mL	No sign of degradati on or leak	No sign of degradatio n or leak	No sign of degradati on or leak		
			AS content with propell ant gas	0.516	0.522	0.544	0.566		
			AS content without propell ant gas	2.56	2.59	2.70	2.81		
			Variatio n	/	+1.2%	+5.5%	+9.8%		
			Spray diamet	11cm circular	7cm circular	7cm circular	8cm circular		

			er and pattern Spray volume	112.35 mL 0.44g/s	112.21 mL 0.46 g/s	111.58 mL 0.45 g/S	109.17 mL 0.46 g/s		
Storage stability test – low temperature stability test for liquids	CIPAC MT 39.3 method (2000)	OS 1 (named ONE SHOT AUTO PERCUTANT with valve PV in the study) Batch 20/093A01 Containing 0.516% w/w of cypermethrin 210 mL one-shot metal (tinplate) aerosol filled with 150 mL of liquid	shot meta test item) procedure the test ite was obser The satisfa the spray 2°C. The details aerosol an	em OS 1 and in the consider of 7 days at the consider of 7 days at the constant of the constant of the constant of the spray volted in their reserved.	osol with valved to be stable appearance of the aerospattern were stable.	e PV filled with eafter a low so hange in the action and the spot and the spot at able after 7 cosfactory operations and diameter a	h 150 mL of storage appearance of sial packaging ray volume, days at 0 ±	Acceptable The meta SPC 3 is stable 7 days at 0°C.	Halbwachs P., 2020 Study no. 20- 903071-007,
		formulation	Test item	colourle	eneous ess limpid liqu characteristic	No char	s at 0°C		
			Spray diameter pattern Spray vo	White of (tinplat mL 11 cm and circular lume After of mL Spray in the street of the st	ne-shot 112.3 rate: 0.44 g/s s: no blocking	leak wa 9 cm circular 5 After or 111.79 0.47 g/ Nozzles	ne-shot mL		
Effects on content of the active	-	Meta SPC 3	commercia	for stability to al packagings of aerosol), are o	sunlight is no of the product	t required as	the	-	-

				1	
substance and					
technical					
characteristics					
of the biocidal					
product - light					
Effects on	-	Meta SPC 3	The products of the Meta SPC 3 (OS) in their respective	Data on	-
content of the			commercial packagings are expected to be stable after an	temperature have	
active			accelerated storage procedure (8 weeks at $40 \pm 2^{\circ}$ C) according	been provided in	
substance and			to CIPAC MT 46.3 (Handbook J, 2000) and after a low	the accelerated	
technical			temperature stability (7 days at $0 \pm 2^{\circ}$ C) according to CIPAC MT	storage stability	
			39.3 (Handbook J, 2000) (please refer to Section 3.4.1).	study and in the	
characteristics			The individual commercial packagings of the products are	low temperature	
of the biocidal			hermetically sealed, the packaging are leak-tight, and therefore,	stability study.	
product -			a study for humidity effects is not required.		
temperature					
and humidity					
Effects on	-	-	See the storage stability test – long term storage at ambient	-	-
content of the			temperature		
active					
substance and					
technical					
characteristics					
of the biocidal					
product -					
reactivity					
towards					
container					
material					
		Meta SPC 3	Not required as the products of the Meta SPC 3 are non-aqueous		
Wettability	-	Meta SPC 3	aerosol biocidal products.	_	_
Suspensibility,	_	Meta SPC 3	Not required as the products of the Meta SPC 3 are non-aqueous	_	_
spontaneity		I TICKE SI C S	aerosol biocidal products.		
			acrosor brocker products.		
and dispersion					
stability		Mata CDC 2	Network and an the greatest of the Mate CDC 2		
Wet sieve	-	Meta SPC 3	Not required as the products of the Meta SPC 3 are non-aqueous	-	-
analysis and			aerosol biocidal products.		
dry sieve test					

Emulsifiability, re- emulsifiability and emulsion stability	-	Meta SPC 3	Not required as the products of the Meta SPC 3 are non-aqueous aerosol biocidal products.	-	-
Disintegration time	-	Meta SPC 3	Not required as the products of the Meta SPC 3 are non-aqueous aerosol biocidal products.	-	-
Particle size distribution, content of dust/fines, attrition, friability	CIPAC MT 187 (2003) ISO 13320-2009	OS 1 (named ONE SHOT AUTO PERCUTANT with valve PV in the study) Batch 20/093A01 Containing 0.516% w/w of cypermethrin 210 mL one-shot metal (tinplate) aerosol filled with 150 mL of liquid formulation	The spray droplet size distribution of the test item OS 1 in its commercial packaging (210 mL one-shot metal (tinplate) aerosol with valve PV filled with 150 mL of test item) was determined by laser diffraction. The percentage of the respirable volume fraction less than 10 μm is zero. Mean on the three sprays: Dv(0.1) = 636.1 μm Dv(0.5) = 678.3 μm Dv(0.9) = 718.4 μm	Acceptable	Halbwachs P., 2020 Study no. 20- 903071-008,
Persistent foaming	-	Meta SPC 3	Not required as the products of the Meta SPC 3 are non-aqueous aerosol biocidal products.	-	-
Flowability/Pou rability/Dustab ility	-	Meta SPC 3	Not required as the products of the Meta SPC 3 are non-aqueous aerosol biocidal products.	-	-
Burning rate — smoke generators	-	Meta SPC 3	Not required as the products of the Meta SPC 3 are non-aqueous aerosol biocidal products.	-	-
Burning completeness — smoke generators	-	Meta SPC 3	Not required as the products of the Meta SPC 3 are non-aqueous aerosol biocidal products.	-	-
Composition of smoke — smoke generators	-	Meta SPC 3	Not required as the products of the Meta SPC 3 are non-aqueous aerosol biocidal products.	-	-

Spraying pattern — aerosols	FEA 644 (2009)	OS 1 (named ONE SHOT AUTO PERCUTANT with valve PV in the study) Batch 20/093A01 Containing 0.516% w/w of cypermethrin 210 mL one-shot metal (tinplate) aerosol filled with 150 mL of liquid formulation	At initial time, the mean spray diameter of the 210 mL one-shot metal (tinplate) aerosol with valve PV (filled with 150 mL of test item OS 1) was 11 cm and the shape of the spray on the wetted patch was circular. The mean volume of test item after spraying the one-shot aerosol was 112.35 mL and the mean spray rate was 0.44 g/s. After 8 weeks at $40 \pm 2^{\circ}$ C, the mean spray diameter of the 210 mL one-shot metal (tinplate) aerosol (filled with 150 mL of test item) was 10 cm and the shape of the spray on the wetted patch was circular. The mean volume of test item after spraying the one-shot aerosol was 111.97 mL and the mean spray rate was 0.47 g/s. At initial time, the mean spray diameter of the 210 mL one-shot metal (tinplate) aerosol (filled with 150 mL of test item OS 1) was 11 cm and the shape of the spray on the wetted patch was circular. The mean volume of test item after spraying the one-shot aerosol was 112.35 mL and the mean spray rate was 0.44 g/s. After 7 days at $0 \pm 2^{\circ}$ C, the mean spray diameter of the 210 mL one-shot metal (tinplate) aerosol (filled with 150 mL of test item) was 9 cm and the shape of the spray on the wetted patch was circular. The mean volume of test item after spraying the one-shot aerosol was 111.79 mL and the mean spray rate was 0.47 g/s.	Acceptable	Halbwachs P., 2020 Study no. 20- 903071-007,
Physical compatibility	-	Meta SPC 3	Not applicable. The products of the Meta SPC 3 are not intended to be used in conjunction with any other products or active substances.	-	-
Chemical compatibility	-	Meta SPC 3	Not applicable. The products of the Meta SPC 3 are not intended to be used in conjunction with any other products or active substances.	-	-
Degree of dissolution and dilution stability	-	Meta SPC 3	Not applicable. The products of the Meta SPC 3 are not intended to be used in conjunction with any other products or active substances.	-	-
Surface tension	OECD Test Guideline115 (1995)	Liquid formulation without propellant gas of OS 1 (named ONE	According to EU Method A.5 and to OECD No.115 methods, the mean surface tension of liquid formulation without propellant gas of the product OS 1 was 22.2 N/m at 20.1°C.	Acceptable	Halbwachs P., 2020 Study no. 20-

		SHOT AUTO PERCUTANT in the study) Batch 20/093A01 Containing 2.56% w/w of cypermethrin	The test item was considered as surface-active in the experimental conditions used.		903071-006,
Viscosity	OECD Test Guideline 114 (2012) ISO 3219 (1993)	Liquid formulation without propellant gas of OS 1 (named ONE SHOT AUTO PERCUTANT in the		Acceptable	Halbwachs P., 2020 Study no. 20- 903071-006,

2.2.2.3 Physical, chemical and technical properties – Meta SPC 4

Several studies on physical, chemical and technical properties are performed on the product RTU 1. As the only difference between the products of the two Meta-SPCs 4 and 7 is the active substance content, which varies between 0.20% w/w and 0.80% w/w of pure cypermethrin, this composition variation is not expected to have any significant impact on the results obtained on the Meta-SPC 7 (RTU).

The relative density, the low temperature storage stability, the surface tension and the viscosity of the products of the Meta SPC 4 and 7 are extrapolated from the results obtained on the liquid formulation of the product AÉROSOL GUÊPE/FRELON, which has a similar composition as the products of this Meta SPC (please refer to the bridging document in the document Excel "Composition" tab "Bridging Meta SPC 4-7" in the confidential PAR).

The only difference between the products of Meta SPC 4 and 7 and the liquid formulation of AÉROSOL GUÊPE/FRELON, is the active substance content, which varies between 0.20% w/w and 0.80% w/w of pure cypermethrin in the products of Meta SPC 4 and is 2.00% w/w of pure cypermethrin in the liquid formulation of AÉROSOL GUÊPE/FRELON. This composition change (maximum of 1.94%) is not expected to have any significant impact on the results obtained on the liquid formulation of AÉROSOL GUÊPE/FRELON. Therefore, the results obtained in these studies on the product AÉROSOL GUÊPE/FRELON can be extrapolated to all products from the Meta SPC 4 and 7.

2.2.2.4 Physical, chemical and technical properties – Meta SPC 5

Studies on physical, chemical and technical properties were performed on the product EC, which is the only product of this Meta SPC.

Property	Guideline and Method	Purity of the test substance (% (w/w)	Results	FR Evaluation	Reference
Physical state at 20 °C and 101.3 kPa Colour at 20 °C and 101.3 kPa Odour at 20 °C and 101.3 kPa	Organoleptic and visual observations. No guideline required	EC (named LIQUIDE CONCENTRÉ in the study) Batch CRPEC2703 Containing 10.25% w/w of cypermethrin	The product was found to be a homogeneous yellow limpid liquid with a characteristic odour before and after an accelerated storage procedure at $40 \pm 2^{\circ}\text{C}$ for 8 weeks in its commercial packaging (250 mL fluorinated HDPE bottle).	Acceptable	Halbwachs P., 2020 Study no. 20- 8,
Acidity / alkalinity	CIPAC MT 75.3 method (2000)	EC (named LIQUIDE CONCENTRÉ in the study) Batch CRPEC2703 Containing 10.25% w/w of cypermethrin	The mean pH of a 1% w/v dilution of the product EC was 6.80 after 1 min at 21.0°C at initial time and 6.87 after 2 min at 21.1°C after an accelerated storage procedure at 40 ± 2 °C for 8 weeks in its commercial packaging (250 mL fluorinated HDPE bottle).	Acceptable	Halbwachs P., 2020 Study no.20- 903071-018,
Relative density / bulk density	OECD Guideline No.109 (2012)	EC (named LIQUIDE CONCENTRÉ in the study) Batch CRPEC2503 Containing 10.20% w/w of cypermethrin	The mean relative density of the product EC was 0.916 at 20.0°C	Acceptable	Halbwachs P., 2020 Study no.20- 903071-017,

Storage stability test – accelerated	CIPAC MT 46.3 method (storage stability)	EC (named LIQUIDE CONCENTRÉ in the study) Batch CRPEC2703	fluorinated HD	EC in its commercial pack PE bottle) was tested dur dure for 8 weeks at 40 ± 2	ing an accelerated	Acceptable A mitigation measure should be noted: "the product	Halbwachs P., 2020 Study no. 20- 903071-018,
storage	(2000)	Containing 10.25%		Т0	T 8 weeks	must be shaken	
	Validated analytical method	w/w of cypermethrin 250 mL fluorinated	Test item	Homogeneous orange limpid liquid with a characteristic odour	No change	before each use."	
		HDPE bottle	Packaging	White opaque fluorinated HDPE flask of 250 mL	No change		
			AS content	10.25 %	10.24%		
			Variation	/	-0.1 %		
			%wieght	/	0%		
			Dilution stability	Two phases were observed after standing for 24 hours at 30 ± 2°C. The test item diluted at 8.0% w/v in standard water D formed a homogeneous dilution at initial time, but did not remain stable after 30 minutes and 24 hours.	Three phases were observed after standing for 24 hours at 30 ± 2°C. The test item diluted at 8.0% w/v in standard water D formed a homogeneous dilution at initial time, but did not remain stable after 30 minutes and 24 hours.		
			Wet sieve test Persistent foam	At 8%w/v: no residue on 75µm sieve At 2% w/v: 15 mL after 1min At 8% w/v: 22 mL	At 8%w/v: no residue on 75µm sieve At 2% w/v: 14 mL after 1min At 8% w/v: 23 mL		
			Ratio cis:	after 1min Cis/trans	after 1min Cis/trans		
			trans	40.45:59.55	40.49:59.41		
			pH at 1%	6.8 at 21°C	6.93 at 21°C		

Storage stability test – long term	Technical Monograph No.17, 2nd edition,	EC (named LIQUIDE CONCENTRÉ in the study) Batch CRPEC2703		em EC in its	commercia	l packaging (25		Acceptable The meta SPC 5 is stable 24 months at	Halbwachs P., 2022 Study no. 20- 903071-019,
storage at ambient	CropLife	Containing 10.25%		T0	T 6	T 12 months	T 24	ambient	
temperature	Validated	w/w of			months		months	temperature.	
	analytical method	cypermethrin 250 mL fluorinated HDPE bottle	Test item	Homogen eous orange limpid liquid with a characteri stic odour	No change	No change	No change		
			Packaging	White opaque fluorinate d HDPE flask of 250 mL	No change	No change	No change		
			AS content %w/w	10.25	9.98	10.45	10.17		
			Variation	/	-2.6%	+1.9%	-0.8%		
			Ratio cis: trans						
			Variation of weight	/	0.0%	0.0%	+0.1%		
			рН	At 1%w/v 6.8 after 1'	/	/	At 1%w/v 5.31 after 1'		
			dilution stability	Two phases were observed after standing	/	/	Two phases were observed after standing		

 1		-		_	ı	
	for 24			for 24		
	hours at			hours at		
	30 ± 2°C.			30 ± 2°C.		
	The test			The test		
	item			item		
	diluted at			diluted at		
	8.0% w/v			8.0% w/v		
	in			in		
	standard			standard		
	water D			water D		
	formed a			formed a		
	homogen			homogene		
	eous			ous		
	dilution at			dilution at		
	initial			initial		
	time,			time,		
	but did			but did		
	not			not		
	remain			remain		
	stable			stable		
	after 30			after 30		
	minutes			minutes		
	and 24			and 24		
	hours.			hours.		
		,	,			
wet sieve	No	/	/	The mean		
test	residue			percentag		
	on a			e		
	75µm			retention		
	sieve			of test		
				item held		
				on a 75-		
				µm sieve		
				was		
				0.04% of		
				the total		
				sieved		
				test item		
Danaihanak	A +	,		test iteiii		
Persitent	At	/	/	At		
foam	2%w/v:			2%w/v:		
	15 mL			14 mL		
	after 1'			after 1'		

			2: af	%w/v: 2 mL fter 1'		At 8%w/v 22 mL after 1'			
Storage stability test – low	CIPAC MT 39.3 method (2000)	EC (named LIQUIDE CONCENTRÉ in the study) Batch CRPEC2503		was considered to be bility for 7 days at 0		e after a low		Not acceptable The pH and dilution stability should have been provided.	Halbwachs P., 2020 Study no. 20- 903071-017
temperature		Containing 10.20%		ТО		T 7 days at 0°C		A mitigation	303071 017,
stability test for liquids		w/w of cypermethrin	Test item	Homogeneous colourless orange l		No change		measure should be reported on the label	
			pН					"Protect from frost."	
			Dilution stability						
Effects on content of the active substance and technical characteristics of the biocidal product - light	-	Meta SPC 5		ability to sunlight is r kaging of the product ie.			PE	As the AS is not light sensitive according to AR. Therefore no further data required.	-
Effects on content of the active substance and technical characteristics of the biocidal product – temperature and humidity	-	Meta SPC 5	is expected to be (8 weeks at 40 = 2000) and after according to CIP Section 3.4.1.). The individual cohermetically sea	he Meta-SPC 5 (EC) is stable after an accest a 2°C) according to 0 a low temperature stace MT 39.3 (Handboth and the packaging led, the packagings aly for humidity effects	elerated CIPAC Natability bok J, 20 s of the are leak	d storage procedu MT 46.3 (Handboo (7 days at 0 ± 2° 000) (please refe e product are k-tight, and	re k J, C)	Data on temperature have been provided in the accelerated storage stability study and in the low temperature stability study.	-
Effects on content of the active substance and	-	-	See the storage temperature	stability test – long t	erm sto	orage at ambient		-	-

			,		
technical					
characteristics					
of the biocidal					
product -					
reactivity					
towards					
container					
material					
		Meta SPC 5	Not required as the product of the Meta SPC 5 is a soluble		
Wettability	-	Meta SPC 3	concentrate biocidal product.	-	_
Suspensibility,	 -	Meta SPC 5	Not required as the product of the Meta SPC 5 is a soluble		_
		Meta SFC 3	concentrate biocidal product.		
spontaneity			concentrate biocidal product.		
and dispersion					
stability		M + CDC F	N		
Wet sieve	-	Meta SPC 5	Not required as the product of the Meta SPC 5 is a soluble	-	-
analysis and			concentrate biocidal product.		
dry sieve test					
Emulsifiability,	-	Meta SPC 5	Not required as the product of the Meta SPC 5 is a soluble	-	-
re-			concentrate biocidal product.		
emulsifiability					
and emulsion					
stability					
Disintegration	-	Meta SPC 5	Not required as the product of the Meta SPC 5 is a soluble	-	-
time			concentrate biocidal product.		
Particle size	-	Meta SPC 5	Not required as the product of the Meta SPC 5 is a soluble	-	-
distribution,			concentrate biocidal product.		
content of					
dust/fines,					
attrition,					
friability					
Persistent	CIPAC MT 47.3	FC (named LIQUIDE	At 2% w/v: 15 mL after 1min	Acceptable	Halbwachs P.,
foaming	(2017)	CONCENTRÉ in the	At 8% w/v: 22 mL after 1min	Acceptable	2020
loaililig	(_01/)	study)	The state of the s		Study no. 20-
		Batch CRPEC2703			903071-018,
		Containing 10.25%			
		w/w of			
		cypermethrin			

		250 mL fluorinated HDPE bottle			
Flowability/Pou rability/Dustab ility	-	Meta SPC 5	Not required as the product of the Meta SPC 5 is a soluble concentrate biocidal product.	-	-
Burning rate — smoke generators	-	Meta SPC 5	Not required as the product of the Meta SPC 5 is a soluble concentrate biocidal product.	-	-
Burning completeness — smoke generators	-	Meta SPC 5	Not required as the product of the Meta SPC 5 is a soluble concentrate biocidal product.	-	-
Composition of smoke — smoke generators	-	Meta SPC 5	Not required as the product of the Meta SPC 5 is a soluble concentrate biocidal product.	-	-
Spraying pattern — aerosols	-	Meta SPC 5	Not required as the product of the Meta SPC 5 is a soluble concentrate biocidal product.	-	-
Physical compatibility	-	Meta SPC 5	Not applicable. The product of the Meta SPC 5 is not intended to be used in conjunction with any other products or active substances.	-	-
Chemical compatibility	-	Meta SPC 5	Not applicable. The product of the Meta SPC 5 is not intended to be used in conjunction with any other products or active substances.	-	-
Degree of dissolution and dilution stability	CIPAC MT 41 (2017) CIPAC MT 185	EC (named LIQUIDE CONCENTRÉ in the study) Batch CRPEC2703 Containing 10.25% w/w of cypermethrin 250 mL fluorinated HDPE bottle	According to CIPAC MT 41.1, before the accelerated storage procedure, the test item EC diluted at 8.0% w/v in standard water D formed a homogeneous dilution at initial time, but did not remain stable after 30 min and 24h (two phases were observed). As the solution of the test item remained not homogeneous according to CIPAC MT 41.1, a procedure adapted from CIPAC MT 185 test was performed. No residue was measured on the 75µm sieve.	Acceptable A mitigation measure should be noted: "the product must be shaken before each use and during application."	Halbwachs P., 2020 Study no. 20- 903071-018,
			After an accelerated storage procedure at $40 \pm 2^{\circ}\text{C}$ for 8 weeks in its commercial packaging (250 mL fluorinated HDPE bottle), the test item solution diluted at 8.0% w/v in standard water D formed a homogeneous dilution at initial time, but did not remain		

			homogeneous after 30 min and 24h (three phases were observed). However, the label of the product EC specifies that the trigger spray must be shaken before each use.		
Surface tension	OECD Test Guideline115 (1995)	EC (named LIQUIDE CONCENTRÉ in the study) Batch CRPEC2503 Containing 10.20% w/w of cypermethrin	The mean surface tension of the product EC was 30.4 mN/m at 20.4°C. The test item was considered as surface-active in the experimental conditions used.	Acceptable	Halbwachs P., 2020 Study no. 20- 903071-017,
Viscosity	OECD Test Guideline 114 (2012) ISO 3219 (1993)	EC (named LIQUIDE CONCENTRÉ in the study) Batch CRPEC2503 Containing 10.20% w/w of cypermethrin	The mean dynamic viscosity of the product EC was found to be 10.82 mPa.s at $20.0 \pm 0.2^{\circ}$ C and 6.32 mPa.s at $40.0 \pm 0.2^{\circ}$ C. The test item was considered to have newtonian properties in the experimental conditions used.	Acceptable	Halbwachs P., 2020 Study no. 20- 903071-017,

2.2.2.5 Physical, chemical and technical properties – Meta SPC 7

Several studies on physical, chemical and technical properties were performed on the product RTU 1, which is the only product of this Meta SPC.

The relative density, the low temperature storage stability, the surface tension and the viscosity of the products of the Meta-SPC 7 are extrapolated from the results obtained on the liquid formulation of the product AÉROSOL GUÊPE/FRELON, which has a similar composition as the products of this Meta SPC (please refer to the bridging document "A3.6_Confidential_bridging data_Meta SPCs 4 and 7 RTU_20210727" in section 13 of this IUCLID dossier). The only difference between the products of Meta-SPC 7 and the liquid formulation of AÉROSOL GUÊPE/FRELON, is the active substance content, which is 0.20% w/w of pure cypermethrin in the product of Meta-SPC 7 and is 2.00% w/w of pure cypermethrin in the liquid formulation of AÉROSOL GUÊPE/FRELON. This composition change (maximum of 1.94%) is not expected to have any significant impact on the results obtained on the liquid formulation of AÉROSOL GUÊPE/FRELON. Therefore, the results obtained in these studies on the product AÉROSOL GUÊPE/FRELON can be extrapolated to all products from the Meta-SPC 7.

Property	Guideline and Method	Purity of the test substance (% (w/w)	Results	FR Evaluation	Reference
Physical state at 20 °C and 101.3 kPa Colour at 20 °C and 101.3 kPa Odour at 20 °C and 101.3 kPa	Organoleptic and visual observations. No guideline required	RTU 1 (named LIQUIDE PAE in the study)	The product RTU 1 was found to be a homogeneous yellow limpid liquid with a characteristic odour.	Acceptable	Padilla P., 2021 Study no. 20- 6,
Acidity / alkalinity	-	Meta SPC 4 and 7	The products of the Meta SPC 4 and 7 are non-aqueous ready- to-use liquid biocidal products. Therefore, the pH value is not determined on the products of the Meta SPC 4 and 7.	Acceptable	-
Relative density / bulk density	OECD Guideline No.109 (2012)	Liquid formulation without propellant gas of AÉROSOL GUÊPE/FRELON Batch 20/094A01 Containing 2.02% w/w of cypermethrin	The mean relative density of liquid formulation without propellant gas of the product AÉROSOL GUÊPE/FRELON was 0.885 at 20.0°C.	Acceptable It was extrapolated from the results obtained on the liquid formulation of the product AÉROSOL GUÊPE/FRELON, which has a similar composition as the products of this Meta SPC.	Halbwachs P., 2020 Study no. 20- 903071-010,

CHIMIGET_CYPER

Storage stability test – accelerated storage	CIPAC MT 46.3 method (storage stability)	RTU 1 (named LIQUIDE PAE with trigger spray Versaplast EU		U 1 in its commercial palast EU) after an accelera 0 ± 2°C.		Acceptable	Padilla P., 2021 Study no. 20- 903071-026,
Storage	(2000)	in the study)		ТО	T 8 weeks		
	Validated analytical method	500 mL HDPE sprayer	Test item	Homogeneous yellow limpid liquid with a characteristic odour	Homogeneous yellow limpid liquid with a characteristic odour		
			Packaging	White opaque HDPE sprayer of 500 mL	White opaque HDPE sprayer of 500 mL slightly curved: no sign of degradation or leak		
			AS content	0.201	0.196		
			Variation	/	-2.5%		
			Ratio cis: trans	60.78/39.22	60.48% /39.52%		
			Weight (g)	487.55	487.4		
			Variation	/	-0.04%		
			Spray diameter and pattern	15 cm circular	16 cm circular		
			Spray volume	Mean volume of 1 pulverisation: 0.592 mL No blocking of the pump	Mean volume of 1 pulverisation: 0.655 mL No blocking of the pump		
			Spray droplet size distribution by laser diffraction	% of the respirable volume fraction less than $10\mu m = 0$ Dv(0.1) = 77.1 μm Dv(0.5) = 142.4 μm Dv(0.9) = 295.6 μm D[3;2] = 129.8 μm D[4;3] = 171.6 μm			

Storage stability test – long term storage at ambient	Technical Monograph No.17, 2nd edition, CropLife	RTU 1 (named LIQUIDE PAE in the study) Batch n° 21090 500 mL HDPE		ackaging (5 indicated in	00 mL HDPE n the study		pe of	Acceptable. The product is stable in its packaging during 12 months as leakage has been	eDemangel B and Ricau H, 2020 903071-027,
temperature	Validated	sprayer		T0	T 6	T 12	T 24	observed after 12	
toporataro	analytical method		Toot items	Honogono	months	months	months	months. The pH was not	
	method		Test item		sctic odour	npid liquid wit	II d	measured before	
			Packaging	Weight:	Difference	Difference	Difference	and after storage.	
			(weight =	/	of weight	of weight :	of weight :	However, based on	
			product +	'	: 0%	0%	-0.3%	the composition of	
			packaging)					the product and as	
				White	White	White	White	the product is a	
				opaque	opaque	opaque	opaque	ready too use	
				HDPE	HDPE	HDPE	HDPE	product no further data required.	
				sprayer	sprayer slightly	sprayer slightly	sprayer with	The type of trigger	
					curved	curved	slightly	tested was not	
					without	without	leak on	indicated in th study	
					leak	leak	juncture	report, however as	
			AS content (%w/w) (analytical method is described in the analytical part)	0.201 (result obtained duri,g study N°20- 903071- 026, accelerat ed storage stability study)	0.197	0.200	0.202	only one type is claimed for this meta SPC, we can consider that the commercial packgaging tested correspond to the same trigger spray: Versaplast EU.	
			Variation (%)	/	-2	-0.5	+0.5		
			Ratio cis: trans	60.78/39	60.3/39.7 0	60.57/39.4 3	60.6/39.4		
			volume delivered	0.612	0.622	0.611	0.641		

			(mL)(inter nal method) Spray diameter and pattern (adapted FEA 644)	No blockage 15 cm Circular form	No blockage 16 cm Circular form	No blocka 17 cm Circula form	า	No blockage 17 cm Circular form		
Storage stability test – low temperature stability test for liquids	CIPAC MT 39.3 method (2000)	AÉROSOL GUÊPE/FRELON Batch 20/094A01 Containing 0.507% w/w of cypermethrin 650 mL multi-shot metal (tinplate) aerosol filled with 500 mL of liquid formulation	The test item packaging (65 500 mL of test storage proceduppearance of weight of the Test item	50 mL multi st item) wer dure for 7 c f the test ite commercial T0 Homogo	-shot metal (e considered lays at 0 ± 2 em and in the packaging v	(tinplate to be si °C; no de appea vas obse	e) aeros stable af change srance a erved.	ol filled with fter a low in the nd the	Acceptable The products are stable 7 days at 0°C.	Halbwachs P., 2020 Study no. 20- 903071-011,
			Packaging	White o	paque metal e) aerosol of	150 d	No sign degrada eak was			
Effects on content of the active substance and technical characteristics of the biocidal product - light	-	Meta SPC 4 and 7	The study for commercial propague						As the AS is not light sensitive according to AR. Therefore no further data required.	-
Effects on content of the active substance and	-	Meta SPC 4 and 7	The stability of (500 mL HDP) storage proce 46.3 (Handbo available.	E sprayer) v dure (8 wee	vill be detern eks at 40 ± 2	nined af 2°C) acc	fter an a	accelerated to CIPAC MT	Data on temperature have been provided in the accelerated storage stability	-

CHIMIGET_CYPER

technical characteristics of the biocidal product – temperature and humidity			The products of the Meta SPC 4 in their commercial packagings are expected to stable after a low temperature stability procedure (7 days at $0 \pm 2^{\circ}$ C). The individual commercial packagings of the products are hermetically sealed, the packagings are leak-tight, and therefore, a study for humidity effects is not required.	study and in the low temperature stability study.	
Effects on content of the active substance and technical characteristics of the biocidal product - reactivity towards container material	-	-	See the storage stability test – long term storage at ambient temperature	-	-
Wettability	-	Meta SPC 7	Not required as the products of the Meta SPC 4 are non-aqueous ready-to-use liquid biocidal products. No data provided.	-	-
Suspensibility, spontaneity and dispersion stability	-	Meta SPC 7	Not required as the products of the Meta SPC 4 are non-aqueous ready-to-use liquid biocidal products. No data provided.	-	-
Wet sieve analysis and dry sieve test	-	Meta SPC 7	Not required as the products of the Meta SPC 4 are non-aqueous ready-to-use liquid biocidal products. No data provided.	-	-
Emulsifiability, re- emulsifiability and emulsion stability	-	Meta SPC 7	Not required as the products of the Meta SPC 4 are non-aqueous ready-to-use liquid biocidal products. No data provided.	-	-
Disintegration time	-	Meta SPC 7	Not required as the products of the Meta SPC 4 are non-aqueous ready-to-use liquid biocidal products. No data provided.	-	-

Particle size		DTU 4 (The spray droplet size distribution of the test item RTU 1 in its	Acceptable	Padilla P.,
distribution, content of dust/fines, attrition,	CIPAC MT 187 (2003) ISO 13320-	RTU 1 (named LIQUIDE PAE with trigger spray Versaplast EU in the study)	commercial packaging (500 mL HDPE sprayer: Versaplast EU) will be determined by laser diffraction The percentage of the respirable volume fraction less than 10 μm is zero. Mean on the three sprays:		2021903071- 026,
friability	2009	500 mL HDPE sprayer	$Dv(0.1) = 77.1 \mu m$ $Dv(0.5) = 142.4 \mu m$ $Dv(0.9) = 295.6 \mu m$		
Persistent foaming	-	Meta SPC 7	Not required as the products of the Meta SPC 4 are non-aqueous ready-to-use liquid biocidal products. No data provided.	-	-
Flowability/Pou rability/Dustab ility	-	Meta SPC 7	Not required as the products of the Meta SPC 4 are non-aqueous ready-to-use liquid biocidal products. No data provided.	-	-
Burning rate — smoke generators	-	Meta SPC 7	Not required as the products of the Meta SPC 4 are non-aqueous ready-to-use liquid biocidal products. No data provided.	-	-
Burning completeness — smoke generators	-	Meta SPC 7	Not required as the products of the Meta SPC 4 are non-aqueous ready-to-use liquid biocidal products. No data provided.	-	-
Composition of smoke — smoke generators	-	Meta SPC 7	Not required as the products of the Meta SPC 4 are non-aqueous ready-to-use liquid biocidal products. No data provided.	-	-
Spraying pattern — aerosols	FEA 644 (2009)	RTU 1 (named LIQUIDE PAE in the study) 500 mL HDPE sprayer Versaplast EU in the study	At initial time, the mean spray diameter of the RTU 1 sprayer Versaplast EU was 15 cm and the shape of the spray on the wetted patch was circular. The mean volume of test item after one pulverisation of sprayer was 0.592 mL.	Acceptabe	Padilla P., 2021Study plan no. 20- 903071-026,
Physical compatibility	-	Meta SPC 7	Not applicable. The products of the Meta SPC 4 are not intended to be used in conjunction with any other products or active substances.	-	-
Chemical compatibility	-	Meta SPC 7	Not applicable. The products of the Meta SPC 4 are not intended to be used in conjunction with any other products or active substances.	-	-

FR CA CHIMIGET_CYPER 18

Degree of dissolution and dilution stability	-	Meta SPC 7	Not applicable. The products of the Meta SPC 4 are not intended to be used in conjunction with any other products or active substances.	-	-
Surface tension	OECD Test Guideline115 (1995)	Liquid formulation without propellant gas of AÉROSOL GUÊPE/FRELON Batch 20/094A01 Containing 2.02% w/w of cypermethrin	According to EU Method A.5 and to OECD No.115 methods (ring method), the mean surface tension of liquid formulation without propellant gas of the product AÉROSOL GUÊPE/FRELON was 26.6 mN/m at 20.2°C. The test item was considered as surface-active in the experimental conditions used.	Acceptable It was extrapolated from the results obtained on the liquid formulation of the product AÉROSOL GUÊPE/FRELON, which has a similar composition as the products of this Meta SPC	Halbwachs P., 2020 Study no. 20- 903071-010,
Viscosity	OECD Test Guideline 114 (2012) ISO 3219 (1993)	Liquid formulation without propellant gas of AÉROSOL GUÊPE/FRELON Batch 20/094A01 Containing 2.02% w/w of cypermethrin	According to OECD Test Guideline 114 and to ISO Standard 3219 (rotational viscometer), the mean dynamic viscosity of the liquid formulation without propellant gas of the product AÉROSOL GUÊPE/FRELON was found to be 6.96 mPa*s at 20.0 \pm 0.4°C and 4.27 mPa*s at 40.0 \pm 0.2°C. The test item was considered to have newtonian properties in the experimental conditions used.	Acceptable It was extrapolated from the results obtained on the liquid formulation of the product AÉROSOL GUÊPE/FRELON, which has a similar composition as the products of this Meta SPC.	Halbwachs P., 2020 Study no. 20- 903071-010,

Conclusion on the physical, chemical and technical properties of the product

AE FC 1 (Meta SPC 6, 1 and 2)

Studies on physical, chemical and technical properties were performed on the product AE FC 1, which is the product having the lowest active substance content of Meta SPC 1, 6 and 2. As the only difference between the 3 products of these Meta-SPC is the active substance content, which

varies between 0.20% w/w and 0.80% w/w of pure cypermethrin, this composition variation is not expected to have any significant impact on the results obtained on the product AE FC 1.

The product **AE FC 1 (Meta SPC 2)** is an aerosol (AE) formulation. All studies have been performed in accordance with the current requirements and the results are deemed to be acceptable.

The appearance of the product is a homogeneous colourless limpid liquid with characteristic odour. There is no effect of high temperature on the stability of the formulation, since after 8 weeks at 40°C, neither the active ingredient content nor the technical properties were changed. The stability data indicate a shelf life of at least 2 years at ambient temperature when stored in metal can packaging material (commercial packaging material).

After 7 days at 0°C, the appearance and technical characteristic have not significantly changed. The product is stable at 0°C.

Its technical characteristics are acceptable for an AE formulation.

Shelf life: 24 months at ambient temperature

Mitigation mesure : store at temperature below 40°C

OS 1 (Meta SPC 3)

Studies on physical, chemical and technical properties were performed on the product OS 1, which is the product having the lowest active substance content of this Meta-SPC. As the only difference between the 2 products of this Meta-SPC is the active substance content, which varies between 0.50% w/w and 0.80% w/w of pure cypermethrin, this composition variation is not expected to have any significant impact on the results obtained on the product OS 1.

The product **OS 1 (Meta SPC 3)** is an aerosol (AE) formulation. All studies have been performed in accordance with the current requirements and the results are deemed to be acceptable.

The appearance of the product is a homogeneous colourless limpid liquid with characteristic odour. There is no effect of high temperature on the stability of the formulation, since after 8 weeks at 40°C, neither the active ingredient content nor the technical properties were changed. The stability data indicate a shelf life of at least 2 years at ambient temperature when stored in metal can packaging material (commercial packaging material).

After 7 days at 0°C, the appearance and technical characteristic have not significantly changed. The product is stable at 0°C.

Its technical characteristics are acceptable for an AE formulation.

Shelf life: 24 months at ambient temperature

Mitigation mesure : store at temperature below 40°C

RTU 1 (Meta SPC 7 and 4)

Several studies on physical, chemical and technical properties were performed on the product RTU 1, which is the product having the lowest active substance content of these Meta-SPC. As the only difference between the 3 products of these Meta-SPC (4 and 7) is the active substance content, which varies between 0.20% w/w and 0.80% w/w of pure cypermethrin, this composition change is not expected to have any significant impact on the results obtained on the product RTU 1.

The relative density, the low temperature storage stability, the surface tension and the viscosity of the products of the Meta SPC 4 are extrapolated from the results obtained on the liquid formulation of the product AÉROSOL GUÊPE/FRELON, which has a similar composition as the products of this Meta SPC (please refer to the bridging document in the document Excel "Composition").). The only difference between the products of Meta SPC 4 and the liquid formulation of AÉROSOL GUÊPE/FRELON, is the active substance content, which varies between 0.20% w/w and 0.80% w/w of pure cypermethrin in the products of Meta SPC 4 and is 2.00% w/w of pure cypermethrin in the liquid formulation of AÉROSOL GUÊPE/FRELON.

The product **RTU 1 (Meta SPC 7)** is an all others liquids (AL) formulation. All studies have been performed in accordance with the current requirements and the results are deemed to be acceptable. However, the study report of the particle size and spray patern tests should be provided during the commenting phase.

The appearance of the product is a homogeneous yellow limpid liquid with a characteristic odour. There is no effect of high temperature on the stability of the formulation, since after 8 weeks at 40°C, neither the active ingredient content nor the technical properties were changed. The long-term storage stability studies was provided and shows that the product is stable in its packaging for 12 months. Indeed, as a leak was observed after 24 months, the product cannot be considered as stable in the its commercial packaging.

After 7 days at 0°C, the appearance and technical characteristic have not significantly changed. The product is stable at 0°C.

Its technical characteristics are acceptable for an AE formulation.

Shelf life: 1 year

Mitigation mesure : store at temperature below 40°C

EC (Meta SPC 5)

The product EC (named LIQUIDE CONCENTRÉ in the study) is a soluble concentrate (SL) formulation. All studies have been performed in accordance with the current requirements and the results are deemed to be acceptable.

The appearance of the product is an homogeneous yellow limpid liquid with characteristic odour. There is no effect of high temperature on the stability of the formulation, since after 8 weeks at 40°C, neither the active ingredient content nor the technical properties were changed. The stability data indicate a shelf life of at least 2 years at ambient temperature when stored in f-HDPE bottle or jerrycan packaging material (commercial packaging material).

|--|

After 7 days at 0°C, the appearance has not significantly changed. However, the pH and dilution stability were not provided. Therefore the data vailable are not sufficient to conclude on the stability at 0°C. A mitigation measure should be added on the label.

Its technical characteristics are acceptable for an SL formulation.

Shelf life: 24 months at ambient temperature

Mitigation mesures:

Store at temperature below 40°C.

Shake the product before and during use.

Protect from frost.

2.2.3 Physical hazards and respective characteristics

Property	Guideline and Method	Purity of the test substance (% (w/w)	Results	FR evaluation	Reference
Explosives	Statement	Meta SPC 1 Meta SPC 2 Meta SPC 3 Meta SPC 6	The products formulated as aerosol dispenser (i.e. AE WH, AE FC 1, AE FC 2, AE FC 3, OS 1 and OS 2) are not concerned by the physical hazard Unstable explosives or explosives of Divisions 1.1 to 1.6 as they are already classified as Flam. Aerosol 1, H222 and Flam. Aerosol 1, H229.	Acceptable	IUCLID
		Meta SPC 4 Meta SPC 5 Meta SPC 7	The products of the Chimiget_Cyper family contain maximum 10.87% w/w of technical cypermethrin cis/trans 40/60 (technical) (CAS No. 52315-07-8), which has no potential for explosion according to its Assessment Report (Product-Type 18, February 2017). Moreover maximum more than 99% w/w of the composition of the products RTU1, RTU2, RTU3 and EC are fatty acids. These components have no chemical group associated with explosive properties and are not classified for explosive properties according to its safety data sheet. The other components, maximum of 5% w/w of the formulations, doesn't contain reactive groups and due to its low content in the products, it is not considered as being able to lead to a classification of the products of the family. Therefore, the products RTU 1, RTU 2, RTU 3 and EC of the Chimiget_Cyper family are not expected to have explosive properties and test is considered unnecessary.		
Flammable gases	-	Chimiget_Cyp er family	Not required as the family products are liquid products or formulated as aerosol dispenser.	-	-

Flammable aerosols	Statement	Meta SPC 1 Meta SPC 2 Meta SPC 3 Meta SPC 6	As the products of the Chimiget_Cyper family formulated as aerosol dispensers (i.e. AE WH, AE FC 1, AE FC 2, AE FC 3, OS 1 and OS 2) contain 19% to 30% w/w of a solvent mixture, which is classified Flam. Liq. 2, H225, , they are classified as Flam. Aerosol cat 1, H222 (Extremely flammable aerosol) and H229 (Pressurised container: May burst if heateexpld).	Acceptable	IUCLID
		Meta SPC 4 Meta SPC 5 Meta SPC 7	The products of the Chimiget_Cyper family RTU 1, RTU 2, RTU 3 and EC are not concerned by the physical hazard "Flammable aerosol" as they are liquid products.		
Oxidising gases	-	Chimiget_Cyp er family	Not required as the family products are liquid products or formulated as aerosol dispenser.	-	-
Gases under pressure	Statement	Meta SPC 1 Meta SPC 2 Meta SPC 3 Meta SPC 6	The products formulated as aerosol dispensers (i.e. AE WH, AE FC 1, AE FC 2, AE FC 3, OS 1 and OS 2) are not concerned by the physical hazard "gases under pressure" according to Regulation (EC) No.1272/2008, 2.3.2.1, Note 2: "Aerosols do not fall additionally within the scope of Sections 2.2 (flammable gases), 2.5 (gases under pressure), 2.6 (flammable liquids) and 2.7 (flammable solids)".	Not relevant as the product is not a gas under pressure	-
		Meta SPC 4 Meta SPC 5 Meta SPC 7	The products of the Chimiget_Cyper family are not concerned by the physical hazard "gases under pressure" as they are liquid products (RTU 1, RTU 2, RTU 3 and EC).		
Flammable liquids	Statement	Meta SPC 1 Meta SPC 2 Meta SPC 3 Meta SPC 6	The products formulated as aerosol dispensers (i.e. AE WH, AE FC 1, AE FC 2, AE FC 3, OS 1 and OS 2) are not concerned by the physical hazard "flammable liquids" according to Regulation (EC) No.1272/2008, 2.3.2.1, Note 2: "Aerosols do not fall additionally within the scope of Sections 2.2 (flammable gases), 2.5 (gases under pressure), 2.6 (flammable liquids) and 2.7 (flammable solids).".	Acceptable	IUCLID

	ISO Standard 3679 EC A.9 method (when avalaible)	Meta SPC 4 Meta SPC 5 Meta SPC 7	A flash point has been performed on the products EC (Meta SPC 5) and RTU1 (Meta SPC 7, with 0.22% w/w technical cypermethrin) and no flash point was observed up to 100°C for both products. As the product RTU2 (Meta SPC 4) contains 0.54% w/w technical cypermethrin, its flash point is expected to be between RTU1 and RTU3 flash point. A flash point has been measured on the product RTU 3 at 172°C	Acceptable The meta SPC 4, 5 and 7 are no flammable liquids.	Yaverian J-M, 2021 Padilla P, 2022, 22- 903071-001
Flammable solids	-	-	Chimiget_Cyper family are not concerned by the physical hazard "Flammable solids" as they are liquid products.	Not relevant as the products are not solid.	-
Self-reactive substances and mixtures	Statement	Meta SPC 1 Meta SPC 2 Meta SPC 3 Meta SPC 6	The products formulated as aerosol dispensers (i.e. AE WH, AE FC 1, AE FC 2, AE FC 3, OS 1 and OS 2) are not concerned by the physical hazard "Self-reactive substances and mixtures" as they are already classified as Flam. Aerosol 1, H222 and Flam. Aerosol 1, H229. Tests are considered unnecessary.	Acceptable	IUCLID
		Meta SPC 4 Meta SPC 5 Meta SPC 7	The products of the Chimiget_Cyper family contain maximum 10.87% w/w of technical cypermethrin cis:trans 40:60 (technical) (CAS No. 52315-07-8), which is not classified for self-reactive properties according to its Assessment Report (Product-Type 18, February 2017). Moreover maximum more than 99% w/w of the composition of the products RTU 1, RTU 2, RTU 3 and EC are fatty acids. These components are not classified for self-reactive properties The other component, maximum of 5% w/w of the formulations, is not classified for self reactive properties, and due to its low content in the products, it is not considered as being able to lead to a classification of the products of the family. Therefore, the products RTU 1, RTU 2, RTU 3 and EC of the Chimiget_Cyper family are not expected to have self-reactive properties and tests are considered unnecessary.		

Pyrophoric	Statement	Chimiget_Cyp	Tests are not required as the products of the	Acceptable	IUCLID
liquids		er family	Chimiget_Cyper family do not contain any components classified as pyrophoric. Moreover, experience in manufacture and handling shows that the products of the Chimiget_Cyper family do not ignite spontaneously on coming into contact with air at normal temperature. The products of the Chimiget_Cyper family are not expected to be pyrophoric liquids and and test is considered unnecessary.		
Pyrophoric solids	-	Chimiget_Cyp er family	The products of the Chimiget_Cyper family are not concerned by the physical hazard "pyrophoric solids" as they are aerosols dispensers and liquid products.	Not relevant as the products are a solid	IUCLID
Self-heating substances and mixtures	Statement	Chimiget_Cyp er family	Tests are not required as experience in manufacture and handling shows that the products of the Chimiget_Cyper family do not ignite spontaneously on coming into contact with air at normal temperature. The products of the Chimiget_Cyper family are not expected to be self-heating mixtures and tests are not required. Moreover, the products of the Chimiget_Cyper family are not expected to present a significant hazard for autoflammability.	Acceptable all product is under liquid form therefore no self-heating properties is expected.	IUCLID
Substances and mixtures which in contact with water emit flammable gases	Statement	Chimiget_Cyp er family	Tests are not required as the products of the Chimiget_Cyper family do not contain any components classified as substances which in contact with water emit flammable gases. Therefore the products of the Chimiget_Cyper family are not expected to emit flammable gases in contact with water and and tests are considered unnecessary.	Acceptable	IUCLID

18

Oxidising	Statement	Meta SPC 1 Meta SPC 2	The products of Meta-SPCs 1, 2, 3 and 6 contain between 0.22% and 0.87% w/w of technical Cypermethrin cis:trans	Acceptable	IUCLID
liquids		Meta SPC 2	40:60 (CAS No. 52315-07-8), which is not oxidising		
		Meta SPC 6	according to its Assessment Report (Product-Type 18,		
		Field Si C 0	February 2017).		
			The aerosol dispensers (i.e. AE WH, AE FC1, AE FC2, AE		
			FC3, OS1 and OS2) contain between 70% and 80% w/w of		
			a propellant gas which is not classified for oxidising		
			properties according to Regulation (EC) No.1272/2008.		
			Moreover between 19% and 30% w/w of the composition		
			of the products is a component with no chemical group		
			associated with oxidising properties (no compound		
			contains oxygen, fluorine or chlorine bonded to atom		
			different as carbon and hydrogen) and which is not		
			classified for oxidising properties according to Regulation		
			(EC) No.1272/2008.		
			Therefore, the products AE WH, AE FC 1, AE FC2, AE FC 3,		
			OS 1 and OS 2 of the Chimiget_Cyper family are not		
			expected to have oxidising properties and test is		
			considered unnecessary.		
		Meta SPC 4	The products of Meta-SPCs 4 and 5 contain between		
		Meta SPC 5	0.22% and 10.87% w/w of technical Cypermethrin		
		Meta SPC 7	cis:trans 40:60 (CAS No. 52315-07-8), which is not		
			oxidising according to its Assessment Report (Product-		
			Type 18, February 2017).		
			Moreover maximum more than 99% w/w of the		
			composition of the products RTU 1, RTU 2, RTU 3 and EC		
			are fatty acids. This component has no chemical group		
			associated with oxidising properties (no compound		
			contains oxygen, fluorine or chlorine bonded to atom		
			different as carbon and hydrogen) and is not classified for oxidising properties according to its SDS.		
			The other component, maximum of 5% w/w of the		
			formulations, is not classified for its oxidising properties		
			according to its safety datasheet, and due to its low		
			content in the products, it is not considered as being able		
			to lead to a classification of the products of the family.		
			Therefore, the products RTU1, RTU2, RTU3 and EC of the		
			Chimiget_Cyper family are not expected to have oxidising		
			properties and test is considered unnecessary.		

FR CA CHIMIGET_CYPER 18

Oxidising solids		er family	The products of the Chimiget_Cyper family are not concerned by the physical hazard "oxidising solids" as they are liquid products.	Not relevant as the product is a liquid	IUCLID
Organic peroxides	-	er family	The products of the Chimiget_Cyper family are not concerned by the physical hazard "organic peroxides" as their components are not expected to form or contain organic peroxides.	Acceptable	IUCLID

Corrosive to	Method C.1	Meta SDC 3 :	Size : 2mm thick plates 50 mm longht 20 mm width		IUCLID
metals		Meta SPC 3: OS2 product Batch 20/093A03	Size: 2mm thick plates, 50 mm lenght, 20 mm width Aluminium, non clad type 7075-T6 Steel-type S235JR+CR Immersed 7 days at 55°C Steel: -0.6% Aluminium: -0.01% Half immersed Steel: -0.6% I Aluminium: -0.04% In gaseous phase Steel: / Aluminium: / No localised corrosion was observed on steel and	The results show that the product OS2 is not classified corrosive to metal. Based on the compositions, the result covers the meta SPC 1, 2, 3 and 6	
		Meta SPC 5 : EC product batch Cyp2507	aluminium Size: 2mm thick plates, 50 mm lenght, 20 mm width Aluminium, non clad type 7075-T6 Steel-type S235JR+CR Immersed 7 days at 55°C Steel: -0.004% Aluminium: -0.004% Half immersed Steel: -0.003% I Aluminium: -0.005% In gaseous phase Steel: -0.003% Aluminium: 0.002% No localised corrosion was observed on steel and aluminium	The results show that the product EC is not classified corrosive to metal. Based on the compositions, the result covers the meta SPC 4, 5 and 7	

Statement	Meta SPC 1 Meta SPC 2 Meta SPC 3 Meta SPC 6 Meta SPC 6	The products of Meta-SPCs 1, 2, 3 and 6 contain between 0.22% and 0.87% w/w of technical Cypermethrin cis:trans 40:60 (CAS No. 52315-07-8), which is not auto-flammable (auto ignition temperature = 400°C) according to its Assessment Report (Product-Type 18, February 2017). The aerosol dispensers (i.e. AE WH, AE FC 1, AE FC 2, AE FC 3, OS 1 and OS 2) contain between 70% and 80% w/w of a propellant gas which is not auto-flammable Data is lacking on the self-ignition temperature of the other components, although they are not expected to present a significant hazard for auto-flammability. Therefore, the products AE WH, AE FC 1, AE FC 2, AE FC 3, OS 1 and OS 2 of the Chimiget_Cyper family are not expected to have auto-ignition properties and test is considered unnecessary. The products of the Meta-SPCs 4, 5 and 7 contain maximum 10.87% w/w of technical cypermethrin cis:trans 40:60 (technical) (CAS No. 52315-07-8), which is not auto flammable (auto-ignition temperature = 400°C) according to its Assessment Report (Product-Type 18, February 2017). Data is lacking on the self-ignition temperature of the other components, although they are not expected to present a significant hazard for auto-flammability. An auto-ignition test is performed according to EC A15 on the product EC (Meta SPC 5) +The auto-ignition was 251°C.	Acceptable for meta SPC 1, 2, 3 and 6 as they are covered by AE classification. Based on the result obtained for meta SPC 5, it can be considered that meta SPC 4 and 7 are cover by meta SPC 5.	IUCLID
Statement	Meta SPC 1 Meta SPC 2 Meta SPC 3 Meta SPC 6 Meta-SPC 4 Meta-SPC 5	Tests for relative self-ignition temperature of the products AE WH, AE FC1, AE FC2, AE FC3, OS1 and OS2 of the Chimiget_Cyper family are not required as they are aerosol dispensers and not solid products. Tests for relative self-ignition temperature of the products RTU1, RTU2, RTU3 and EC of	Acceptable Not relevant as the product is not a solid	IUCLID
		Meta SPC 2 Meta SPC 3 Meta SPC 6 Meta SPC 4 Meta SPC 5 Meta SPC 7 Meta SPC 7 Meta SPC 1 Meta SPC 2 Meta SPC 3 Meta SPC 3 Meta SPC 6	Meta SPC 2 Meta SPC 3 Meta SPC 6 Meta SPC 6 Meta SPC 6 Meta SPC 6 Meta SPC 6 Meta SPC 6 Meta SPC 6 Meta SPC 6 Meta SPC 6 Meta SPC 7 Meta SPC 8 Meta SPC 9 Meta SPC 9 Meta SPC 9 Meta SPC 7 Meta SPC 8 Meta SPC 9 Meta SPC 1 Meta SPC 2 Meta SPC 3 Meta SPC 3 Meta SPC 5 Meta SPC 5 Meta SPC 7 Meta SPC 7 Meta SPC 7 Meta SPC 8 Meta SPC 9 Meta SPC 1 Meta SPC 2 Meta SPC 3 Meta SPC 3 Meta SPC 6 Meta SPC 3 Meta SPC 6 Meta SPC 7 Tests for relative self-ignition temperature of the products Meta SPC 9 Meta SPC 6 Meta SPC 6 Meta SPC 6 Meta SPC 7 Tests for relative self-ignition temperature of the products Meta SPC 9 Meta SPC 6 Meta SPC 6 Meta SPC 7 Tests for relative self-ignition temperature of the products Meta SPC 9 Meta SPC 6 Meta SPC 6 Meta SPC 6 Meta SPC 7 Tests for relative self-ignition temperature of the products Meta-SPC 5 Meta SPC 5 Meta SPC 6 Meta-SPC 5 Meta SPC 7 Tests for relative self-ignition temperature of the products Meta-SPC 5 Meta SPC 6 Meta-SPC 5 Meta SPC 7 Tests for relative self-ignition temperature of the products Meta-SPC 5 Meta-SPC 5 Meta SPC 6 Meta-SPC 5 Meta SPC 6 Meta-SPC 5 Meta SPC 6 Meta-SPC 5 Meta SPC 7 Meta-SPC 8 Meta-SPC 9 Meta-SPC 9 Meta-SPC 9 M	Meta SPC 2 Meta SPC 3 Meta SPC 6 Meta SPC 7 Meta SPC 8 Meta SPC 8 Meta SPC 8 Meta SPC 9 Meta SPC 1 Meta SPC 1 Meta SPC 1 Meta SPC 7 Meta SPC 8 Meta SPC 8 Meta SPC 9 Meta SPC 9 Meta SPC 1 Meta SPC 1 Meta SPC 1 Meta SPC 1 Meta SPC 3 Meta SPC 4 Meta SPC 3 Meta SPC 4 Meta SPC 5 Meta SPC 5 Meta SPC 7 Meta SPC 1 Meta SPC 3 Meta SPC 3 Meta SPC 3 Meta SPC 4 Meta SPC 3 Meta SPC 4 Meta SPC 4 Meta SPC 5 Meta SPC 6 Meta SPC 7 Meta SPC 8 Meta SPC 8 Meta SPC 8 Meta SPC 8 Meta SPC 9 Meta SPC 9 Meta SPC 1 Meta SPC 1 Meta SPC 1 Meta SPC 3 Meta SPC 3 Meta SPC 3 Meta SPC 3 Meta SPC 4 Meta SPC 4 Meta SPC 5 Meta SPC 5 Meta SPC 5 Meta SPC 5 Meta SPC 6 Meta SPC 7 Meta SPC 8 Meta SPC 8 Meta SPC 9 Meta SPC 1 Meta SPC 1 Meta SPC 3 Meta SPC 3 Meta SPC 4 Meta SPC 5 Meta SPC 5 Meta SPC 5 Meta SPC 5 Meta SPC 6 Meta SPC 6 Meta SPC 7 Meta SPC 8 Meta SPC 6 Meta SPC 7 Meta SPC 8 Meta SPC 8 Meta SPC 9

FR CA CHIMIGET_CYPER 18

Dust expl	osion	Statement	 The products of the Chimiget_Cyper family are not concerned by the physical hazard "dust explosion" as they	Acceptable	IUCLID
			are liquid products.	Not relevant as the	
				product is not a solid	

Conclusion on the physical hazards and respective characteristics of the product

The products of the Chimiget_Cyper family are not expected to present a significant hazard for explosive properties, pyrophoric properties, oxidising properties. They do not emit flammable gases in contact with water.

The products of the Meta SPCs 1, 2, 3 and 6, formulated as aerosol dispensers, are classified as Flam. Aerosol 1, H222 (Extremely flammable aerosol) and H229 (Pressurised container: May burst if heated).

The products of Meta SPCs 4, 5 and 7 are not classified.

Implication concerning labelling:

Meta SPCs 1, 2, 3 and 6: Flam. Aerosol 1, H222 (Extremely flammable aerosol) and H229 (Pressurised container: May burst if heated).

2.2.4 Methods for detection and identification

The products family CHIMIGET_CYPER consists of 7 Meta-SPC having similar compositions - AÉROSOL GUÊPE/FRELON (formulation not claimed in this dossier) and Meta SPC 4 and 7 RTU for which the liquid formulations contain the same ingredients,

- Meta SPC 1 (AE WH), Meta SPC 2 and 6 AE FC and Meta SPC 3 OS for which the liquid formulations contain the same ingredients.
- Meta SPC 5 (EC) which contains the same ingredients as the liquid formulations of AÉROSOL GUÊPE/FRELON and as Meta-SPCs 4 and 7 (RTU), with only an additional component.

In order to determine the cypermethrin cis/trans 40/60 content in the products family CHIMIGET CYPER, three analytical methods were performed.

An analytical method for the determination of cypermethrin contents in the products of AÉROSOL GUÊPE/FRELON and Meta SPC 4 and 7 RTU was fully validated on the product AÉROSOL GUÊPE/FRELON (formulation not claimed in this dossier) (study no. 20-903071-014), as only the content of active substance changes in the liquid formulations of these products.

An additional study was performed and the specificity, the precision and the reproducibility of this method was performed on the product EC (Meta SPC 5 EC) (study no. 20-903071-20), as this product contains an additional component.

The linearity was tested within the concentration range of cypermethrin cis/trans 40/60 in the liquid formulation without the propellant gas in the test item. In order to be covered by the validated linearity range, the quantity of each product (RTU 1, RTU 2, RTU 3 or EC) weighed for the determination of cypermethrin cis/trans 40/60 content was adjusted according to the active substance content in the products.

An analytical method for the determination of cypermethrin contents in the products of Meta SPC 2 and 6 AE FC and Meta SPC 3 OS was performed on the product AE FC 1 (AÉROSOL VOLANTS/RAMPANTS) (study no. 20-903071-005), as only the content of active substance changes in the liquid formulations of the products of these two Meta-SPCs.

Product AÉROSOL GUÊPE/FRELON and Meta SPC 4 RTU

Report: Ricau H. 2020. Validation of the analytical method for the determination of cypermethrin cis/trans 40/60 in the product In compliance with SANCO/3030/99 rev.5 from 22/03/2019

Report no 20-903071-014

Test facilities: (Brindas, France)

Principle of the method: (see Conf PAR)

The validation of this method was considered in compliance with SANCO/3030/99 rev.4.

Validation data:

FR CA CHIMIGET_CYPER 18

Specificity	To demonstrate the s	pecificity of the	method, sever	al solu	tion			
	are analyzed:							
		ank (acetonitrile	• •					
		thout any active						
	- substance (bl	 substance (blank formulation), 						
	 the cypermet 							
		m (liquid form ÊPE/FRELON)	ulation of th	e prod	duct			
	No peak appears ir		lank and in	the bl	ank			
	formulation. In the sand test item, the pe	olutions of cype aks at the reten	rmethrin refer tion times aro	rence in und 9.	tem 684			
	min and 10.282	•	•	•				
	cypermethrin and				eak			
	appears in the test ite							
	As the unknown a cypermethrin area							
	considered to be inte			was	HOL			
	All chromatograms (a			hle				
Linearity	Linearity was studied				(in			
Linearity								
		duplicate) between 50% and 150% (from 117.3 mg/L to 348.3 mg/L) of the reference item.						
	Calibration curve has been provided with a r higher than 0.99.							
	Compound							
	Active substance							
		$Y = 1.17 * 10^5 * x + 7.35 * 10^4$						
		r = 0.9999						
		n=2 for 5 leve			_			
Precision	Repeatability was eva							
	solutions. Mean content: 2.09%w/w corresponding to 0.522%							
	Compound	w/w in to aerosol with the propellant gas Compound Repeatability (RSD)						
	'	, ,	(NSD)					
	Active substance	RSD = 0.57%						
Accuracy		Accuracy was determined by analysis of 2 reconstituted samples. The accuracy results are expressed as the recovery rate.						
	Fortification level	Recovery	Mean	l n	1			
		rate	recovery					
	230 mg/L	100.9 %	100.9 %	2				
	230 mg/L	100.8 %	100.5 /0	-				
	230 1119/ 2	100.0 //	1]			
Ratio of isomers	The ratio between cis- and trans-cypermethrin was							
Tadio di Isomeis	during the precision a	-	•	as stut	arcu			
	The percent area (%			ethrin	was			
	calculated:	-, c. c.c and						
		60.1% of trans-cypermethrin and 39.9% of cis-cypermethrin.						

The analytical method is fully validated for the determination of the active substance Cypermethrin in the product.

Meta SPC 1, Meta SPC 2 and 6 AE FC and Meta SPC 3 OS

Report: Ricau H. 2020. Validation of the analytical method for the determination of cypermethrin cis/trans 40/60 in the product AÉROSOL VOLANTS/RAMPANTS In compliance with SANCO/3030/99 rev.5 from 22/03/2019

Report no 20-903071-005

Test facilities: (Brindas, France)

Principle of the method:

Cypermethrin cis/trans 40/60 is analysed after extraction from the liquid formulation of product AE FC 1 (named AÉROSOL VOLANTS/RAMPANTS in the study) and quantified by liquid chromatography using a reverse phase column and a UV detector.

About 0.3750 gof the liquid formulation of product AE FC 1 is accurately weighed (to the nearest 0.01 mg) into a 10-mL volumetric flask and the volume is made up with acetonitrile. The solution is homogenised then diluted 10 times with acetonitrile before analysis.

Cypermethrin cis/trans 40/60 is analysed by Liquid Chromatography with UV detection (225 nm) by external standard calibration, at retention time of about 7.7 min for cis-cypermethrin peak and 7.3 min for trans-cypermethrin peak.

The validation of this method was considered in compliance with SANCO/3030/99 rev.4.

Validation data:

Specificity	To demonstrate the s are analyzed:	pecificity of the method, several solution				
	- the solvent blank (acetonitrile),					
	- the matrix without any active,					
	II	ank formulation),				
	`	hrin reference item,				
	, .	- the test item (liquid formulation of the product AE FC				
	No peak appears in formulation. In the s	No peak appears in the solvent blank and in the blank formulation. In the solutions of cypermethrin reference item				
	and 7.7 min represe	aks at the retention times around 7.3 min nt respectively trans-cypermethrin and				
		o additional peak appears near the				
		retention times of the two cypermethrin peaks in the reference				
		item and in the test item.				
Lingsville		nd mass spectra) were available.				
Linearity		by carrying out five concentrations (in 0% and 150% (from 117 mg/L to 346.8				
	mg/L) of the reference					
		been provided with a r higher than 0.99.				
	Compound	Linearity %				
	Active substance	50% to 150%				
		$Y = 1.15 * 10^5 * x + 2.34 * 10^5$				
		r = 1.0000				
		n=2 for 5 levels of concentration				
Precision	aluated by analyzing twice five test item tent: 0.704 %w/w corresponding to rosol with the propellant gas					
	Compound	Repeatability (RSD)				
	Active substance	RSD = 0.41%				

Accuracy	Accuracy was determ samples. The accuracy rate.				
	Fortification level	Recovery rate	Mean recovery	n	
	230 mg/L	99.2 %	99.1%	2	
	230 mg/L	99.1 %			
Ratio of isomers	The ratio between cis- and trans-cypermethrin was studied during the precision and reproducibility analysis. The percent area (%) of cis- and trans-cypermethrin was				
	calculated: 59.9% of trans-cypern	,	, ,		

The analytical method is fully validated for the determination of the active substance Cypermethrin in the product.

Meta SPC 5 EC

Following SANCO/3030/99 rev.5 from 22/03/2019, an analytical method for the determination of cypermethrin cis/trans 40/60 content in the liquid formulation of product AÉROSOL GUÊPE/FRELON (formulation not claimed in this dossier) was validated during the study N°20-903071-014 by definition of the specificity, the linearity, the accuracy, the precision and the reproducibility of the method.

Furthermore, this method allows determining the ratio of cis- and trans-cypermethrin isomers. This analytical method for the determination of cypermethrin cis/trans 40/60 was validated during this study by definition of the specificity, the precision and the reproducibility of the method for the product EC (named LIQUIDE CONCENTRÉ in the study).

Report: Ricau H. 2020. Validation of the analytical method for the determination of cypermethrin cis/trans 40/60 in the product LIQUIDE CONCENTRÉ In compliance with SANCO/3030/99 rev.5 from 22/03/2019

Report no 20-903071-020

Test facilities: (Brindas, France)

Principle of the method:

Cypermethrin cis/trans 40/60 is analysed after extraction from the liquid formulation of product EC and quantified by liquid chromatography using a reverse phase column and a UV detector.

About 1.25 g of the liquid formulation of product EC is accurately weighed (to the nearest 0.01 mg) into a 10-mL volumetric flask and the volume is made up with acetonitrile. The solution is homogenised then diluted 10 times with acetonitrile before analysis.

Cypermethrin cis/trans 40/60 is analysed by Liquid Chromatography with UV detection (225 nm) by external standard calibration, at retention time of about 10.6 min for ciscypermethrin peak and 10.0 min for trans-cypermethrin peak.

The validation of this method was considered in compliance with SANCO/3030/99 rev.4.

Validation data:

Specificity Linearity (Posult from the) ank tem 980 ans- eak hrin
Linearity (Result from the study 20-903071-014)	duplicate) between 50% and 150% (from 117.3 mg/L to 348.3 mg/L) of the reference item. Calibration curve has been provided with a r higher than 0.99 Compound Linearity %				8.3
	Active substance	50% to 150% Y = 1.17 * 10 ⁵ r = 0.9999 n=2 for 5 level			
Precision	Repeatability was eval solutions. Mean conten			test it	tem
	Compound	Repeatability (RSD)		
	Active substance	RSD = 1.70 %			
Accuracy (Result from the study 20-903071-014)	Accuracy was determined by analysis of 2 reconstituted samples. The accuracy results are expressed as the recover rate.				
	Fortification level	Recovery rate	Mean recovery	n	
	230 mg/L	100.9	100.9	2	
	230 mg/L	100.8			
Ratio of isomers	The ratio between cis- and trans-cypermethrin was studied during the precision and reproducibility analysis. The percent area (%) of cis- and trans-cypermethrin was calculated: 56.7% of trans-cypermethrin and 43.3% of cis-cypermethrin.				

The analytical method is fully validated for the determination of the active substance Cypermethrin in the product.

Analytical methods for Cypermethrin residues in soil, air, water (drinking water) and sediment are available in Assessment Report of Cypermethrin Product-type 18, February 2017. The applicant CHIMIGET has a Letter of Access from LIMARU NV (Acting for Tagros Chemicals India Private Limited) for these data.

As the active substance Cypermethrin is not classified Toxic or Very Toxic, an analytical method for the determination of Cypermethrin residue in human body fluids and tissues is unnecessary.

As the products Family CHIMIGET_CYPER is not intended to be used with surface in contact with food/feed of plant and animal origin, analytical method for the determination of Cypermethrin residue in food/feed of plant and animal origin is unnecessary. However, analytical methods for the determination of cypermethrin residues in Food/feed of plant and animal origin are available in Document I, Evaluation Report of Cypermethrin, Product-type 18 (Insecticides), February 2017.

Food/feed of plant origin (principle of method and LOQ for methods for monitoring purposes):

LOD =

0.05 mg/kg (oilseed rape), 0.025 mg/kg (wheat).

Food/feed of animal origin (principle of method and LOQ for methods for monitoring purposes):

LOQ =

0.05 mg/kg (bovine tissue), 0.005 mg/kg (bovine milk), 0.01 mg/kg (hen eggs)

Conclusion on the methods for detection and identification of the product

The analytical method is fully validated for the determination of the active substance Cypermethrin in the products for all meta-SPCs.

Analytical methods were provided at EU level for the determination of Cypermethrin residue in soil, air and water with respectively LOQ = 0.05 mg/kg, 0.375 μ g/m³ and 0.01 μ g/L.

Cypermtehrin is not toxic (T) or very toxic (T+) active substance. Therefore, an analytical method in biological matrices is not required.

As the products Family CHIMIGET_CYPER is not intended to be used on surface in contact with food/feed of plant and animal origin, analytical method for the determination of Cypermethrin in food/feed of plant and animal origin is not required. However, analytical methods for the determination of cypermethrin residues in Food/feed of plant and animal origin are available in Document I, Evaluation Report of Cypermethrin, Product-type 18 (Insecticides), February 2017.

2.2.5 Efficacy against target organisms

2.2.5.1 Function and field of use

Main Group 03: Pest Control

Product Type 18: Insecticides, acaricides and products to control other arthropods.

The products family CHIMIGET_CYPER are insecticide products containing between 0.22 and 10.87% w/w cypermethrin. They are intended to be used by non-professionals, indoor or outdoor.

The family is composed of 7 Meta SPCs:

- Meta SPC 1 contains a ready-to-use aerosol product (0.54% w/w cypermethrin) against wasps and hornets. It is intended to be used as direct spraying on insects, outdoor.
- Meta SPC 2 contains ready-to-use aerosol products (0.54%-0.87% w/w cypermethrin) against crawling insects (adults) including cockroaches (*B. germanica* and *P. americana*) and flying insects (adults) including mosquitoes, (*Culex sp.*), flies (*M. domestica*) and wasps (*Vespula sp.*). They are intended to be used as direct spraying on insects outdoor.
- Meta SPC 3 contains ready-to-use one-shot aerosol products (0.54%-0.87% w/w cypermethrin) against crawling insects (adults) including cockroaches (*B. germanica* and *P. americana*) and flying insects (adults) including mosquitoes, (*Culex sp.*), flies (*M. domestica*) and wasps (*Vespula sp.*). They are intended to be used as space treatment, indoor.
- Meta SPC 4 contains ready-to-use trigger spray products (0.54%-0.87% w/w cypermethrin) against crawling insects (adults) including cockroaches (*B. germanica* and *P. americana*) and flying insects (adults) including mosquitoes, (*Culex sp.*), flies (*M. domestica*) and wasps (*Vespula sp.*). They are intended to be used as surface application, under buildings (i.e. crawlspaces).
- Meta SPC 5 contains concentrate insecticide product (10.87% w/w cypermethrin) against crawling and flying insects. After dilution in water, it is intended to be used as surface application, outdoor.
 - Use 1 of Meta SPC 5: outdoor spray as target spot spraying against flying insects (adults) including mosquitoes (*Culex sp.*), flies (*M. domestica*) and wasps (*Vespula sp.*), and in cracks and crevices against crawling insects (adults) including cockroaches (*B. germanica* and *P. americana*)
 - Use 2 of Meta SPC 5: outdoor surface spray under buildings (i.e. crawlspaces).
- Meta SPC 6 contains ready-to-use aerosol product (0.22% w/w cypermethrin) against crawling insects (adults) including cockroaches (*B. germanica* and *P. americana*) and flying insects (adults) including mosquitoes, (*Culex sp.*), flies (*M. domestica*) and wasps (*Vespula sp.*). It is intended to be used as direct spraying on insects and surface application, indoor and outdoor.
 - Use 1 of Meta SPC 6: indoor and outdoor direct spray on insects
 - Use 2 of Meta SPC 6: indoor and outdoor spray as target spot (flying insects) and in cracks and crevices (crawling insects)
- Meta SPC 7 contains ready-to-use trigger spray product (0.22% w/w cypermethrin) against crawling insects (adults) including cockroaches (B. germanica and P. americana) and flying insects (adults) including mosquitoes, (Culex sp.), flies (M. domestica) and wasps (Vespula sp.). It is intended to be used as surface application.
 - Use 1 of Meta SPC 7: outdoor spray as target spot spraying (flying insects) and in cracks and crevices (crawling insects)
 - Use 2 of Meta SPC 7: surface spray under buildings (i.e. crawlspaces).

2.2.5.2 Organisms to be controlled and products, organisms or objects to be protected

According to the uses claimed by the applicant, the products of the family CHIMIGET_CYPER are used by non-professional users for the control of crawling and flying insects, indoor and outdoor.

2.2.5.3 Effects on target organisms, including unacceptable suffering

The products family CHIMIGET_CYPER is insecticide. The target organisms are killed after contact with/ingestion of the active substance cypermethrin.

2.2.5.4 Mode of action, including time delay

According to the Assessment Report of the Cypermethrin (February 2017), this active substance is a synthetic pyrethroid insecticide with contact and stomach action.

It acts by preventing the transmission of impulses along the nervous system of the insect. It is thought that this is achieved by blocking the sodium channels in nerve membranes, thus preventing action potentials passing down the nerve axon. Typically, this intoxication results in a rapid "knockdown". The affected insect shows uncoordinated movements and finally dies.

According to the efficacy tests provided with the products, complete mortality of the insects is achieved within hours or days, depending on the species and the type of application.

2.2.5.5 Efficacy data

Experimental data on the efficacy of the biocidal product against target organism(s)							
Function	Field of use envisaged	Test substance	Test organism(s)	Test method	Test system / concentrations applied / exposure time	Test results: effects	Reference
Insecticide	Outdoor Meta SPC 1 Use#1 - Direct spraying on insects (not on nest)	AE WH (Cypermethrin 0.54% w/w) - Meta SPC 1	Wasp Vespula germanica Hornet Vespa crabro Vespa velutina 18 adults (trapped in the field) per replicate	Laboratory test	Direct spraying on the insects, which are then immediately transferred in a clean jar Application rate: 17.5 g per jar (17.0 to 18.1 g applied) Assessments: after 5, 10, 15, 30 and 45 minutes and 1 hour. Mortality validated after 24 hours. Replicates: 3 replicates per test species (3 replicates of 6 jars of 3 insects) Non-treated controls: same number of insects in the same conditions (0% mortality for all untreated controls at the end of the tests (24 hours)) Efficacy criteria: - ≥90% knockdown 15 minutes after direct after spray. - Mortality >90% after 1 hour. Temperature: 22±1°C Humidity: 58% ±5%	Time to achieve more than 90% mortality: - V. germanica: 1 h (100%) - V. crabro: 45 min (100%) - V. velutina: 45 min (94.4%), 1h (100%) The efficacy requirement is fulfilled for the 3 tested species, with a mean application rate of 17.5 g per spray.	Guicherd A., 2020 S6.7_01 20STALab006 R.I.: 1
Insecticide	Outdoor Meta SPC 2 Use#1 - Direct	AE FC1 (Cypermethrin 0.22% w/w) - Meta SPC 6	Cockroaches Blatella germanica Periplaneta americana	Laboratory test	Insects in plastic boxes or jars, 6 boxes with 5 insects for each replicate (except <i>Vespula</i> 6 jars with 3 insects)		Guicherd A., 2020 S6.7_02

spraying on insects (not	Mosquito	Treatment: direct spraying on the insects, which are then	(100% mortality in 1 hour) - C. pipiens: 10 min (100%)	20STALab001
on nest)	Culex pipiens	immediately transferred in clean	- <i>C. pipieris:</i> 10 min (100%) - <i>M. domestica:</i> 15 min (100%)	R.I.: 1
on nest)	Culex pipieris	Petri dishes or plastic jars	- <i>M. domestica.</i> 13 min (100%) - <i>V. germanica:</i> 15 min (100%)	K.1 1
	House fly	Petri distres or plastic jars	- v. germanica. 15 mm (100 %)	
Meta SPC 6	Musca domestica	Application rate: 2.5 g per box	In addition, all the individuals	
Use#1 -	riusca domestica	(2.1 to 2.7 g applied)	were knocked-down or dead at	
Direct	Wasp	(Life to Live g applied)	the first assessment, 5 minutes	
spraying on	Vespula	Assessments: after 5, 10, 15, 30	after treatment.	
insects (not	germanica	and 45 minutes.		
on nest)	germamea	Mortality validated after 1 hour and	The efficacy requirement is	
	30 adults per	24 hours.	fulfilled for the 5 tested	
	replicate (except		species, with a mean	
	V. germanica: 18	Replicates: 5 replicates per test	application rate of 2.5 g per	
	adults per	species, except wasps, 3 replicates	spray	
	replicate)			
		Non-treated controls: same		
		number of insects in the same		
		conditions (0% mortality for all		
		untreated controls at the end of the		
		tests (24 hours))		
		Efficacy criteria for cockroaches:		
		- ≥90% KD within few minutes		
		- Mortality ≥ 90 % in 24 hours		
		- Mortality = 30 % III 24 Hours		
		Efficacy criteria for mosquitoes and		
		flies:		
		- >80% KD		
		- Mortality >90% after 24 hours		
		Efficacy criteria for wasp:		
		- ≥ 90% knockdown within a 5-10		
		minutes after direct after spray.		
		- Mortality preferably 90% in 1		
		hour.		
		Town outstance 24 L 10C		
		Temperature: 24±1°C		
		Humidity: 60% ±5%		

Insecticide	Outdoor	AE FC1	Cockroaches	Simulated-	For crawling insects:	Time to achieve more than 90%	Guicherd A.,
		(Cypermethrin	Blatella	use test	Arenas (25x40x30 cm) with a	mortality (mean of 5 replicates):	2020
	Meta SPC 6	0.22% w/w) -	germanica		"nest" on one side, and a water	ТО	
	Use#2 -	Meta SPC 6	Periplaneta		source and a food source on the	B. germanica: 48 hours on non-	S6.7_03
	surface		americana		other side. In between, test device	porous surface (100%), 72	
	treatment -				made from porous (wood) or non-	hours on porous surface	20STALab004
	spot (flying		Mosquito		porous (ceramic tile) surfaces and	(100%)	
	insects) and		Culex pipiens		mimicking cracks and crevices.	P. americana: 24 hours on non-	R.I.: 2
	cracks and				Choice tests: device only partially	porous surface (100%), 48	
	crevices		House fly		treated, the insects can reach food	hours on porous surface	
	(crawling		Musca		and water from their nest without	(100%)	
	insects)		domestica		being in contact with the product.	- C. pipiens: 24 hours on non-	
						porous and porous surfaces	
			Wasp		For flying insects:	(97% and 92%)	
			Vespula _.		Cages (30x30x30 cm) with a	- M. domestica: 24 hours on non-	
			germanica		treated frame made from porous	porous and porous surfaces	
			Danisallantas		(wood) or non-porous (vinyl tape) surfaces on one side. The treated	(100% and 93%) - V. germanica: 24 hours (100%)	
			Per replicate:		surface is $4*0.05*0.3 = 0.06 \text{ m}^2$ in	- v. germanica: 24 nours (100%)	
			30 cockroaches		a total of $6*0.3*0.3=0.54$ m ² ,	Mortality complete within 24 to	
			20 mosquitoes or flies		therefore 10% of the total surface.	72 hours, depending on insect'	
			10 wasps		Food and water on the floor,	species and type of surface.	
			10 wasps		accessible to the insects.	species and type of sarrace.	
					Choice tests: the insects can reach	T0+2 months	
					food and water without being in	- B. germanica: 24 hours on	
					contact with treated surfaces.	non-porous surface (100%), 48	
						hours on porous surface (100%)	
					Temperature: 24±1°C	- P. americana: 24 hours on	
					Humidity: 60% ±5%	non-porous surface (100%), 48	
						hours on porous surface (100%)	
					Application rate: 17.5 g (equivalent	- C. pipiens: 24 hours on non-	
					to 7 seconds spraying)/m ² , so 3.5 g	porous surface (97%), 48 hours	
					(equivalent to 1.4 seconds) to treat	on porous surface (100%)	
					1 linear meter (width 20cm).	- M. domestica: 6 hours on	
					Exposure during 3 days	non-porous surface (90%), 24	
						hours on porous surface (94%)	
					Residual efficacy: test done after	- V. germanica: 48 hours on non-	
					drying of the product on the treated	porous and porous surfaces	
					surfaces, and then after 2 and 4	(100%)	
					months of storage of the treated	Mortality complete within 24 to	
					surfaces (at ambient temperature	Mortality complete within 24 to	

and away from the light and rain).	72 hours, depending on insect'
	species and type of surface.
Assessments: after 3 and 6 hours,	
and then 24, 48 and 72 hours.	T0+4 months
Counting of KD/dead insects and	
calculation of mortality percentage.	porous and porous surfaces
, , , , , , , , , , , , , , , , , , , ,	(100% and 95%)
Replicates: 5 replicates per test	
species	non-porous and porous
Species .	surfaces (94.7% and 92%)
Non-treated controls: 5 replicates	
per species, surfaces treated with	
water (0% mortality for all	
untreated controls at the end of the	
tests)	
(ESIS)	porous and porous surfaces (100% and 99%)
	- V. germanica: 48 hours on non-
	porous and porous surfaces
	(100%)
	Mortality complete within 48 to
	72 hours, except for
	cockroaches, depending on
	insect' species and type of
	surface.
	Efficacy threshold in the BPR
	Efficacy guidance (simulated-
	use test): knock-down of insects
	and mortality according to the
	claim, preferably more than
	90% after 24 hours.
	The efficacy requirement is
	fulfilled for the 5 tested species,
	on both porous and non-porous
	surfaces, with an application
	rate of 17.5 g/m². Residual
	effect up to 4 months after
	treatment.
	u cauncii.

Insecticide	Indoor Meta SPC 3 Use#1 - space treatment	AE OS1 (Cypermethrin 0.54% w/w) - Meta SPC 3	Cockroaches Blatella germanica Periplaneta americana Mousquito Culex pipiens House fly	Simulated- use test	Insects in boxes with shelters, 4 boxes per test species (25 insects inside, or 10 wasps). Boxes disposed in a 54.8 m³ test room, at 2 heights (0.5 and 2 m), and at the corners of two opposite walls. Treatment: one-shot aerosol	mortality (mean of 3 replicates): - B. germanica: 24 hours (100% mortality) - P. americana: 24 hours (98% mortality) - C. pipiens: 12 hours (100% mortality) - M. domestica: 4 hours (90% mortality) 12 hours (100%	R.I.: 1
			Musca domestica Wasp Vespula germanica 100 adults per replicate (except for wasp, 40 adults per replicate)		applied (50 mL) in the center of the closed test room, then 4 hours exposure. Application rate: 0.912 mL/m³ Assessments: at the end of the 4 hours exposure, and then 12 and 24 hours after exposure, and transfer in clean boxes with food and water, in a clean room. Replicates: 3 replicates of treatment Non-treated controls: 3 replicates (0% mortality for all untreated controls at the end of the tests), and also controls to check no contamination of the test room between replicates Temperature: 24±1°C Humidity: 63% ±5%	- V. germanica: 12 hours (100% mortality) In addition, all the insects already affected (knock-down or dead) at the first assessment, right after the 4 hours exposure.	
Insecticide	Outdoor Meta SPC 5 and 7 Use#1 and use#2- surface treatment	RTU1 (Cypermethrin 0.22% w/w) - Meta SPC 7	Cockroaches Blatella germanica Periplaneta americana Mosquito Culex pipiens	Laboratory test – no choice test	Insects exposed with forced contact in trays containing treated/control surfaces Treatment: spraying on ceramic surfaces (25 cm*25 cm) Application rate: 20 mL/m², so	Time to achieve more than 90% mortality (mean of 5 replicates): - B. germanica: 10 min (100% mortality in 15 min) - P. americana: 10 min (100% mortality in 15 min) - C. pipiens: 10 min (100%) - M. domestica: 10 min (100%)	Guicherd A., 2020 S6.7_05 20STALab002 R.I.: 1

		House fly Musca domestica Wasp Vespula germanica 30 adults per replicate (except V. germanica: 10 adults per replicate)		Assessments: knock-down and mortality after 5, 10, 15, 30 and 45 minutes. Mortality validated after 1 hour and 24 hours. Replicates: 5 replicates per test species Non-treated controls: same number of insects in the same conditions, but surfaces treated with water (0% mortality for all untreated controls at the end of the tests) Temperature: 24±1°C Humidity: 60% ±5%	More than 95% of all the individuals (90% for wasps) were knocked- down or dead at the first assessment, 5 minutes after treatment.	
Insecticide Outdoor Meta SPC 5 and 7 Use#1 and use#2- surface treatment - spot (flying insects) and cracks and crevices (crawling insects)	RTU1 (Cypermethrin 0.22% w/w) - Meta SPC 7	Cockroaches Blatella germanica Periplaneta americana Mosquito Culex pipiens House fly Musca domestica Wasp Vespula germanica Per replicate: 30 cockroaches 20 mosquitoes or flies 10 wasps	Simulated- use test	For crawling insects:	porous surfaces (97.3%), 48 hours on porous surfaces (100%) - P. americana: 24 hours on non- porous and porous surfaces (100% and 93.3%) - C. pipiens: 24 hours on non- porous and porous surfaces (100%) - M. domestica: 24 hours on non- porous and porous surfaces (100%) - V. germanica: 24 hours on non- porous and porous surfaces (100%) - V. germanica: 24 hours on non- porous and porous surfaces (100% and 94%) Mortality complete within 24 to	2020 S6.7_06 20STALab003

accessible to the insects. Choice tests: the insects can reach food and water without being in contact with treated surfaces. Temperature: 24±1°C Humidity: 60% ±5% Application rate: 20 mL/m² (16 sprays) equivalent to 4 mL/m (width 20cm). Exposure during 3 psecies and type of surface. T0+2 months B. germanica: 24 hours on non-porous surface (92%), 48 hours on porous surface (97.3%), 48 hours on porous surface (97.3%), 48 hours on porous surface (100%)
food and water without being in contact with treated surfaces. Temperature: 24±1°C Humidity: 60% ±5% Application rate: 20 mL/m² (16 sprays) equivalent to 4 mL/m (width 20cm). Exposure during 3 T0+2 months B. germanica: 24 hours on non-porous surface (100%) - P. americana: 24 hours on non-porous surface (97.3%), 48 hours on porous surface (100%)
contact with treated surfaces. - B. germanica: 24 hours on non-porous surface (92%), 48 hours on porous surface (100%) Humidity: 60% ±5% Application rate: 20 mL/m² (16 sprays) equivalent to 4 mL/m (100%) (width 20cm). Exposure during 3 - C. pipiens: 24 hours on non-
Temperature: 24±1°C Humidity: 60% ±5% Application rate: 20 mL/m² (16 sprays) equivalent to 4 mL/m (width 20cm). Exposure during 3 - C. pipiens: 24 hours on non-
Temperature: 24±1°C Humidity: 60% ±5% Application rate: 20 mL/m² (16 sprays) equivalent to 4 mL/m (100%) (width 20cm). Exposure during 3 - C. pipiens: 24 hours on non-
Temperature: $24\pm1^{\circ}$ C on porous surface (100%) - P. americana: 24 hours on non-porous surface (97.3%), 48 Application rate: 20 mL/m² (16 sprays) equivalent to 4 mL/m (100%) (width 20cm). Exposure during 3 - C. pipiens: 24 hours on non-
Humidity: 60% ±5% Application rate: 20 mL/m² (16 hours on porous surface (97.3%), 48 hours on porous surface sprays) equivalent to 4 mL/m (100%) (width 20cm). Exposure during 3 - C. pipiens: 24 hours on non-
Application rate: 20 mL/m² (16 hours on porous surface sprays) equivalent to 4 mL/m (100%) (width 20cm). Exposure during 3 - C. pipiens: 24 hours on non-
Application rate: 20 mL/m² (16 hours on porous surface sprays) equivalent to 4 mL/m (100%) (width 20cm). Exposure during 3 - C. pipiens: 24 hours on non-
sprays) equivalent to 4 mL/m (100%) (width 20cm). Exposure during 3 - C. pipiens: 24 hours on non-
(width 20cm). Exposure during 3 - C. pipiens: 24 hours on non-
days news and news surfaces
days porous and porous surfaces
(90%)
Residual efficacy: test done after - M. domestica: 6 hours on non-
drying of the product on the treated porous surface (92%), 24 hours
surfaces, and then after 2 and 4 on porous surface (96%)
months of storage of the treated - <i>V. germanica</i> : 24 hours on non-
surfaces (at ambient temperature porous surface (90%), 48 hours
and away from the light and rain). on porous surface (100%)
Assessments: after 3 and 6 hours, Mortality complete within 48
and then 24, 48 and 72 hours. hours for all insects and
Counting of KD/dead insects and surfaces.
calculation of mortality percentage.
T0+4 months
Replicates: 5 replicates per test - B. germanica: 48 hours on non-
species porous surface (98.7%), 72
hours on porous surface
Non-treated controls: 5 replicates (100%)
per species, surfaces treated with P. americana: 72 hours on non-
water (0% mortality for all porous and porous surfaces
untreated controls at the end of the (98% and 95%)
tests) - C. pipiens: 24 hours on non-
porous and porous surfaces
(95% and 90%)
- M. domestica: 48 hours on
non-porous surface (90%), 72
hours on porous surface (100%)
- V. germanica: 24 hours on
non-porous surface (92%), 48
hours on porous surface (100%)

	Mortality complete within 48 to 72 hours, except for American cockroaches, depending on insect' species and type of surface.
	Efficacy threshold in the BPR Efficacy guidance (simulated- use test): knock-down of insects and mortality according to the claim, preferably more than 90% after 24 hours.
	The efficacy requirement is fulfilled for the 5 tested species, on both porous and non-porous surfaces, with an application rate of 20 mL/m². Residual effect up to 4 months after treatment.

CHIMIGET_CYPER

FR CA

18

Please note that according to the requirements of the BPR Efficacy guidance Volume II part B/C (version 3.0, April 2018), section 5.6.4.2.2.1 for products against crawling and flying insects, the requirements are:

- for a claim of "killing crawling insects", sufficient efficacy against cockroaches has to be demonstrated
- o for a "flying insects" claim, sufficient efficacy against flies (tests with *Musca domestica*), mosquitoes (tests with *Culex spp.*) and wasps (tests with *Vespula spp.*) has to be demonstrated

Meta SPC 1

The tests have been performed with the product AE WH (0.54% w/w Cypermethrin, Meta SPC1) which correspond to the product claimed for this Meta SPC.

The use claimed for the Meta SPC 1 is "Aerosol against wasps and hornets, for non-professional users. Spray 1 second (17.5 g) directly on the insect".

According to the requirements of the BPR Efficacy guidance Volume II part B/C (version 3.0, April 2018), for products intended for the control of flying wasps (and hornets), the requirements and efficacy criteria are:

- o a product against wasps should be tested on workers of *Vespula spp.* or *Dolichovespula spp.*
- a laboratory or simulated-use test, with more than 90% knock-down within 5-10 minutes after spray (or according to the claim); and mortality, preferably at least 90%, within 1 hour

Since the product claims efficacy not only against wasps, but also against hornets, including Asian hornets, laboratory tests against *Vespula germanica* (common wasp), *Vespa crabro* (European hornet) and *Vespa velutina* (Asian hornet) were provided by the applicant.

French competent authorities considered that the data submitted in the dossier demonstrated the efficacy of the product AE WH (Meta SPC1) according to the use and the application rate claimed:

- Regarding the efficacy claim against wasp (*Vespula germanica*), European hornet (*Vespa crabro*) and Asian hornet (*Vespa velutina*) adults:
 - The product is efficient by direct spray (1 second spray= 17.5 g of product) with a Kd 90 of 15 minutes and a mortality of 100% 1 hour after the treatment in laboratory tests.

Meta SPC 2

The tests have been performed with the product AE FC1 (0.22% w/w Cypermethrin, Meta SPC 6).

As this product contains less active substance than that claimed for the Meta SPC 2 (0.54-0.87% w/w Cypermethrin) and only the % of solvent is slightly different between both, the cross reading is considered as acceptable. Therefore, the efficacy data provided with the product AE FC1 are used to support the efficacy for Meta SPC2 products.

The use claimed for the Meta SPC 2 is "Aerosol against flying and crawling insects, for non-professional users. Spray 1 second (2.5 g) directly on the insects. For outdoor use".

Regarding the claimed uses, submitted efficacy data are compliant with the requirements of the ECHA guidance parts B+C and the results of these tests are respecting the requirements and criteria of the ECHA guidance parts B+C.

French competent authorities considered that the data submitted in the dossier demonstrated the efficacy of the Meta SPC 2 products (0.54-0.87% w/w Cypermethrin) according to the use and the application rates claimed:

- Regarding the efficacy against crawling insects (adults) including cockroaches (*B. germanica* and *P. americana*) and flying insects (adults) including mosquitoes (*C. pipiens*), flies (*M. domestica*) and wasps (*V. germanica*):
 - The product is efficient by direct spray (1 second spray= 2.5 g of product) with a Kd100 of 5 minutes and a mortality of 100% 1 hour after the treatment in laboratory tests.

Meta SPC 3

The tests have been performed with the product OS1 (0.54% w/w Cypermethrin, Meta SPC 3) which correspond to the product with the minimum active substance claimed for this Meta SPC (0.54-0.87% w/w Cypermethrin).

The use claimed for the Meta SPC 3 is "One shot aerosol against flying and crawling insects, for non-professional users. Use the correct packaging to have 1 mL/m³. For indoor use, only in rooms inaccessible to children and pets and not wet cleaned". No residual efficacy is claimed for this use.

Regarding the claimed uses, submitted efficacy data are compliant with the requirements of the ECHA guidance parts B+C and the results of these tests are respecting the requirements and criteria of the ECHA guidance parts B+C.

French competent authorities considered that the data submitted in the dossier demonstrated the efficacy of the Meta SPC 3 products according to the use (exposure time: 4 hours) and the application rate claimed:

- Regarding the efficacy against crawling insects (adults) including cockroaches (*B. germanica* and *P. americana*) and flying insects (adults) including mosquitoes (*C. pipiens*), flies (*M. domestica*) and wasps (*V. germanica*):
 - The products are efficient by fogging at the application rate of 50 mL product /50 m³ with a Kd100 of 4 hours and a mortality of 100% (98% for P. Americana) 24 hours after the treatment in simulated use tests.

Meta SPC 4

The tests have been performed with the product RTU1 (0.22% w/w Cypermethrin, Meta SPC 7).

As this product contains less active substance than that claimed for the Meta SPC 4 (0.54-0.87% w/w Cypermethrin) and only the % of solvent is slightly different between both, the cross reading is considered as acceptable.

Therefore, we consider that the efficacy data provided with the product RTU1 is acceptable to support the efficacy for Meta SPC 4 products.

The use claimed for the Meta SPC 4 is "Trigger spray against flying and crawling insects, for non-professional users. Apply on surfaces under buildings, at an application rate of 20 mL/m². For outdoor use. Residual efficacy up to 4 months after treatment".

Regarding the claimed uses, submitted efficacy data are compliant with the requirements of the ECHA guidance parts B+C and the results of these tests are respecting the requirements and criteria of the ECHA guidance parts B+C.

French competent authorities considered that the data submitted in the dossier demonstrated the efficacy of the Meta SPC 4 products (0.54-0.87% w/w Cypermethrin) according to the use and the application rate claimed:

- Regarding the efficacy against crawling insects (adults) including cockroaches (*B. germanica* and *P. americana*) and flying insects (adults) including mosquitoes (*C. pipiens*), flies (*M. domestica*) and wasps (*V.* germanica):
 - The product is efficient by spraying at the application rate of 20 mL product / m² with a Kd90 of 10 minutes and a mortality of 100% 15 minutes after the treatment in laboratory no choice tests on non-porous surfaces.
 - In the semi-field tests, a mortality of 100% is observed after 72 hours on porous and non-porous surfaces (protected from rainfall) until 4 months for spot applications (flying insects) and cracks and crevices application (crawling insects) at the application rate of 20 mL product / m².

Please note that the SU tests provided are considered sufficient to support the spot application (flying insects) and application in cracks and crevices (crawling insects) but are also accepted to support a general surface treatment claim (as a worst case). The claimed application rate of the product on the surfaces to be treated is the same.

Meta SPC 5 and Meta SPC 7

The tests have been performed with the product RTU1 (0.22% w/w Cypermethrin, Meta SPC 7).

As the amount of active substance applied is the same between the product RTU1 (Meta SPC 7) and Meta SPC 5 product (at the claimed application rate, i.e. after the worst case dilution claimed for Meta SPC 5 (2% v/v)), the cross reading is considered as acceptable between both.

Therefore, we consider that the efficacy data provided with the product RTU1 is acceptable to support the efficacy for Meta SPC 5 and Meta SPC 7.

The uses claimed for the Meta SPC 5 and 7 are:

- "Trigger spray against flying and crawling insects, for non-professional users. Apply as target spot treatment (for flying insects) and in cracks and crevices (for crawling insects), at an application rate of 20 $\rm mL/m^2$ (4 $\rm mL/m$). For outdoor use. Residual efficacy up to 4 months after treatment".
- "Trigger spray against flying and crawling insects, for non-professional users. Apply on surfaces under buildings, at an application rate of 20 mL/m 2 . For outdoor use. Residual efficacy up to 4 months after treatment".

Please note that a specific interruction for use is added in the SPC to clarify that "The product has to be applied only on restricted areas on surfaces not regularly cleaned and protected from the rain." regarding the outdoor surfaces.

Regarding the claimed uses, submitted efficacy data are compliant with the requirements of the ECHA guidance parts B+C and the results of these tests are respecting the requirements and criteria of the ECHA guidance parts B+C.

French competent authorities considered that the data submitted in the dossier demonstrated the efficacy of the Meta SPC 5 (after dilution at 2% v/v) and 7 according to the uses and the application rate claimed:

- Regarding the efficacy claim against crawling insects (adults) including cockroaches (*B. germanica* and *P. americana*) and flying insects (adults) including mosquitoes (*C. pipiens*), flies (*M. domestica*) and wasps (*V. germanica*):
 - The product is efficient by spraying at the application rate of 20 mL product / m² with a Kd90 of 10 minutes and a mortality of 100% 15 minutes after the treatment in laboratory no choice tests on non-porous surfaces.
 - In the semi-field tests, a mortality of 100% is observed after 72 hours on porous and non-porous surfaces (protected from rainfall) until 4 months for spot applications (flying insects) and cracks and crevices application (crawling insects).

Please note that the SU tests provided are considered sufficient to support the spot application (flying insects) and application in cracks and crevices (crawling insects) but are also accepted to support a general surface treatment claim (as a worst case). The claimed application rate of the product on the surfaces to be treated is the same.

Meta SPC 6, AE FC1

The tests have been performed with the product AE FC1 (0.22% w/w Cypermethrin, Meta SPC 6).

The uses claimed for Meta SPC 6 are:

- "Aerosol against flying and crawling insects, for non-professional users. Spray 1 second (2.5 g) directly on the insects. For indoor and outdoor use".
- "Aerosol against flying and crawling insects, for non-professional users. Apply as target spot treatment in cracks and crevices, at an application rate of 17.5 g/m^2 (7 seconds/m²). For indoor and outdoor use. Residual efficacy up to 4 months after treatment".

Please note that a specific interruction for use is added in the SPC to clarify that "The product has to be applied only on restricted areas on surfaces not regularly cleaned and protected from the rain." regarding the outdoor surfaces.

Regarding the claimed uses, submitted efficacy data are compliant with the requirements of the ECHA guidance parts B+C and the results of these tests are respecting the requirements and criteria of the ECHA guidance parts B+C.

French competent authorities considered that the data submitted in the dossier demonstrated the efficacy of the Meta SPC 6 according to the uses and the application rate claimed:

- Regarding the efficacy against crawling insects (adults) including cockroaches (*B. germanica* and *P. americana*) and flying insects (adults) including mosquitoes (*C. pipiens*), flies (*M. domestica*) and wasps (*V. germanica*)- adults:
 - The product is efficient by direct spray (1 second spray= 2.5 g of product) with a Kd100 of 5 minutes and a mortality of 100% 1 hour after the treatment in laboratory tests.
- In the semi-field tests, the product is efficient at the application rate of 17.5 g (equivalent to 7 seconds spraying)/m², with a mortality of 100% after 72 hours on porous and non-porous surfaces (protected from rainfall) until 4 months for spot applications (flying insects) and cracks and crevices application (crawling insects).

Conclusion on the efficacy of the product

French competent authorities (FR CA) assessed that the family CHIMIGET_CYPER, separated in 7 META-SPC has shown a sufficient efficacy as following:

Meta SPC 1:

The efficacy of the product is demonstrated when used by direct spraying against wasp (*Vespula sp.*, adults), European hornet (*Vespa crabro*, adults) and Asian hornet (*Vespa velutina*, adults) at the application rate of 17.5 g of product (1 second spray) after 1 hour.

Meta SPC 2:

The efficacy of the products is demonstrated when used by direct spraying against crawling insects (adults) including cockroaches (*Blattella germanica*, *Periplaneta americana* and flying insects (adults) including mosquitoes, (*Culex sp.*), flies (*Musca domestica*) and wasps (*Vespula sp.*), at the application rate of 2.5 g of product (1 second spray) after 1 hour.

Meta SPC 3:

The efficacy of the products is demonstrated when used by fogging against crawling insects (adults) including cockroaches (*Blattella germanica*, *Periplaneta americana*) and flying insects (adults) including mosquitoes (*Culex sp.*), flies (*Musca domestica*) and wasps (*Vespula sp.*), at the application rate of 1 mL / m³ (e.g. a can of 50 mL in a room up to 50 m³) with an exposure time of 4 hours, after 24 hours.

Meta SPC 4:

The efficacy of the products is demonstrated when used by spraying on surfaces (porous and non-porous) against crawling insects (adults) including cockroaches (*Blattella germanica*, *Periplaneta americana*) and flying insects (adults) including mosquitoes (*Culex sp.*), flies (*Musca domestica*) and wasps (*Vespula sp.*), at the application rate of 20 mL product / m², up to 4 months (time delay: between 24h and 72h).

Meta SPC 5:

- The efficacy of the product is demonstrated when used by spraying on surfaces (porous and non-porous) against crawling insects (adults) including cockroaches (*Blattella germanica*, *Periplaneta americana*) and flying insects (adults) including mosquitoes (*Culex sp.*), flies (*Musca domestica*) and wasps (*Vespula sp.*), at the application rate of 20 mL product / m² (after dilution at 2% v/v), up to 4 months (time delay: between 24h and 72h).
- The efficacy of the product is demonstrated when used by spraying on surfaces (porous and non-porous) by spot application against flying insects (adults) including mosquitoes (*Culex sp.*), flies (*Musca domestica*) and wasps (*Vespula sp.*) and in cracks and crevices against crawling insects (adults) including cockroaches (*Blattella germanica* and *Periplaneta americana*), at the application rate of 20 mL product / m² (after dilution between 2% and 8% v/v), up to 4 months (time delay: between 24h and 72h).

Meta SPC 6:

- The efficacy of the products is demosntrated when used by direct spraying against crawling insects (adults) including cockroaches (*Blattella germanica* and *Periplaneta americana*) and flying insects (adults) including mosquitoes (*Culex*

- sp.), flies (Musca domestica) and wasps (Vespula sp.) at the application rate of 2.5 g of product (1 second spray), after 1 hour.
- The efficacy of the products is demonstrated when used by spraying on surfaces (porous and non-porous) by spot application against flying insects (adults) including mosquitoes (*Culex sp.*), flies (*Musca domestica*) and wasps (*Vespula sp.*) and in cracks and crevices against crawling insects (adults) including cockroaches (*Blattella germanica* and *Periplaneta americana*), at the application rate of 17.5 g product / m² (7 seconds spray/m²), up to 4 months (time delay: between 24h and 72h).

Meta SPC 7:

- The efficacy of the product when used by spraying on surfaces (porous and non-porous) against crawling insects (adults) including cockroaches (*Blattella germanica* and *Periplaneta americana*) and flying insects (adults) including mosquitoes (*Culex sp.*), flies (*Musca domestica*) and wasps (*Vespula sp.*), at the application rate of 20 mL product / m², up to 4 months.
- The efficacy of the product when used by spraying on surfaces (porous and non-porous) by spot application against flying insects (adults) including mosquitoes (*Culex sp.*), flies (*Musca domestica*) and wasps (*Vespula sp.*) and in cracks and crevices against crawling insects (adults) including cockroaches (*Blattella germanica* and *Periplaneta americana*) at the application rate of 20 mL product / m², up to 4 months (time delay: between 24h and 72h).

2.2.5.6 Occurrence of resistance and resistance management

According to the Assessment Report of Cypermethrin cis/trans 40/60 (February 2017), resistance to pyrethroid insecticides has been reported for a number of pests both in agriculture and public health.

The authorization holder should report any observed incidents related to the efficacy to the Competent Authorities (CA) or other appointed bodies involved in resistance management.

2.2.5.7 Known limitations

None.

2.2.5.8 Evaluation of the label claims

Please refer to conclusion on efficacy regarding the accordance of the label claimed with the submitted efficacy data and uses claimed.

2.2.5.9 Relevant information if the product is intended to be authorised for use with other biocidal product(s)

Not relevant.

2.2.6 Risk assessment for human health

2.2.6.1 Assessment of effects on Human Health

No toxicological studies have been submitted for the biocidal product family CHIMIGET_CYPER. The classification of each meta-SPC has been set according to the calculation rules laid down in the CLP regulation 1272/2008/EC.

According to the CLP regulation, "an aerosol form of a mixture shal be classified in the same hazard category as the non-aerolised form of the mixture". Therefore, the classification of the meta-SPC 1, 2, 3 and 6 has been made following the composition of each meta-SPC without propellant and with the content of the other co-formulants recalculated accordingly.

Please refer to the Confidential annex for further informations.

Skin corrosion and irritation

Conclusion used in Risk Assessment – Skin corrosion and irritation				
Value/conclusion	Not corrosive to skin			
Justification for the value/conclusion	Based on intrinsic properties of individual components of the meta-SPC.			
Classification of the product according to CLP	No classification is required			

Eye irritation

Meta-SPC 1, 2, 3 and 6

Conclusion used in Risk Assessment – Eye irritation				
Value/conclusion	Causes eye irritation			
Justification for the value/conclusion	The concentration of one of the co-formulant (ethanol) is above the threshold value of 10% for classification as Category 2 Eye Irritant.			
Classification of the product according to CLP	The meta-SPC 1, 2, 3 and 6 of the BPF CHIMIGET_CYPER are classified as Eye Irrit. 2; H319, according to the CLP criteria.			

Meta-SPC 4, 5 and 7

Conclusion used in Risk Assessment – Eye irritation					
Value/conclusion	Not irritant to the eye				
Justification for the value/conclusion	Based on intrinsic properties of individual components of the meta- SPC.				
Classification of the product according to CLP	No classification required				

Respiratory tract irritation

Conclusion used in the Risk Assessment – Respiratory tract irritation					
Value/ conclusion	Not irritating for the respiratory tract				
Justification for the conclusion	Based on intrinsic properties of individual components of the meta-SPC.				
Classification of the product according to CLP	No classification is required.				

Skin sensitization

Conclusion used in Risk Assessment – Skin sensitisation				
Value/conclusion	Not sensitising to skin			
Justification for the value/conclusion	Based on intrinsic properties of individual components of the meta-SPC.			
Classification of the product according to CLP	No classification is required.			

Respiratory sensitization (ADS)

Conclusion used in Risk Assessment – Respiratory sensitisation				
Value/conclusion	Not sensitising for the respiratory tract			
Justification for the value/conclusion	Based on intrinsic properties of individual components of the meta-SPC.			
Classification of the product according to CLP	No classification required.			

Acute toxicity

Acute toxicity by oral route

Value used in the Risk Assessment – Acute oral toxicity				
Value	Not acutely toxic via inhalation route			
Justification for the selected value	Based on intrinsic properties of individual components or their concentration in the meta-SPCs.			
Classification of the product according to CLP	No classification required			

Acute toxicity by inhalation

Value used in the Risk Assessment – Acute inhalation toxicity				
Value	Not acutely toxic via inhalation route.			
Justification for the selected value	Based on intrinsic properties of individual components and their concentrations in the meta-SPCs. Please, see confidential PAR.			
Classification of the product according to CLP	No classification required.			

Acute toxicity by dermal route

Value used in the Risk Assessment – Acute dermal toxicity				
Value	Not acutely toxic via dermal route			
Justification for the selected value	Based on intrinsic properties of individual components of the meta-SPC.			
Classification of the product according to CLP	No classification required.			

Information on dermal absorption

Value(s) used in the Risk Assessment – Dermal absorption							
Substance	Cypermet	:hrin					
Value(s)	70%	25%					
	Meta-SPC 1, 2, 3, 4, 5 (in-use dilution), 6 and 7	Meta-SPC 5 (concentrate)					
Justification for the selected value(s)	Default dermal absorption value for solvent-based products with a concentation in active substance below 5%, based on the EFSA guidance on dermal absorption (2017)	Default dermal aborption value for solvent-based products with a concentation in active substance above 5%, based on the EFSA guidance on dermal absorption (2017)					

Available toxicological data relating to non active substance(s) (i.e. substance(s) of concern)

According to the definition of Substance of Concern (SoC) laid down in the Guidance on the BPR for Human Health Assessment & Evaluation, volume III Part B+C (2017), the meta-SPC 1, 2, 3 and 6 of the BPF CHIMIGET_CYPER contains one SoC.

Indeed, ethanol is considered a SoC, as it is present in the meta-SPC in sufficient concentration to trigger the classification as Eye Irritant Cat. 2 – H319 by itself. Taking into account this classification, a Band A is assigned, leading to the application of P-statements normally associated with the concerned H-statements. A qualitative risk assessment for local effect is performed for the meta-SPC 1, 2, 3 and 6.

Please refer to the Confidential annex for further information.

Available toxicological data relating to a mixture

Not relevant.

2.2.6.2 Exposure assessment and risk characterisation for Human health

The CHIMIGET_CYPER biocidal product family is composed of 7 meta-SPCs with ready-to-use products insecticides containing 0.22% to 4.35% w/w cypermethrin (Meta-SPC 1 to 4, 6 and 7) and a concentrate product (Meta-SPC 5) containing 10.87% w/w cypermethrin to dilute prior the application. These products are intended to be used by **non-professional users** against crawling and flying insects.

The different uses and meta-SPC concerned are resumed in the table below.

According to the Assessment Report of Cypermethrin (Belgium, 2017), this active substance is characterised by systemic effects observed in toxicity studies. Consequently, a quantitative risk assessment for systemic effects is performed for dermal, inhalation and oral routes when relevant.

As the products of meta-SPC 1, 2, 3 and 6 are classified as Eye Irritant Cat 2 (H319), a qualitative risk assessment for local effects is performed.

Secondary exposure is considered for adults and children re-entering the room after the air space application (meta-SPC 3), adults in contact with trated surfaces and infants crawling in the treated floor and having hand-to-mouth transfer.

		Direct spray	y on insect	Air space treatment		Crack and cr	evices		reatment unde	r building
Meta SPC	1	2	6	3	6	5	7	4	5	7
Type of products	RTU aerosol	RTU aerosol	RTU aerosol	RTU one-shot aerosol	RTU aerosol	Concentrate to dilute, trigger spray	RTU trigger spray	RTU trigger spray	Concentrate to dilute, trigger spray	RTU trigger spray
Indoor/ outdoor	outdoor	outdoor	indoor outdoor	indoor	indoor outdoor	outdoor	outdoor		outdoor	
Max a.s. content without propellant	1.8%	2.9%	0.73%	4.35%	0.73%	10.87% 0.20% after dilution	0.22%	0.87%	10.87% 0.20% to 0.80% after dilution	0.22%
Mass generation rate	17.5 g/s	2.98 g/s	2.98 g/s	0.44 g/s	2.98 g/s	-	-	-	-	-
Density	-	0.794	0.794	0.799	0.794	0.916	0.885	0.885	0.916	0.885

Identification of main paths of human exposure towards active substance(s) and substances of concern from its use in biocidal product

Summary table: main paths of human exposure							
	Primary (direct)) exposure	Secondary (indirect) exposure				
Exposure path	Professional users (including industrial users and trained professional users) Non-professional users		Professional users (including industrial users and trained professional users) Non-professional bystanders/ General public		Via food		
Oral	n/a	No	n/a	Yes	No		
Dermal	n/a	yes	n/a	Yes			
Inhalation	n/a	yes	n/a	Yes			

List of scenarios

Summary table: exposure scenarios						
Scenario and task number Description of scenario and tasks Exposed group						
Primary exposure						
[Scenario 1]	Direct application on insets (meta-SPC 1, 2 and 6)	Non-professionals				
[Scenario 2]	Air space treatment (meta-SPC 3)	Non-professionals				
[Scenario 3]	Treatement under building (meta-SPC 4, 5 and 7)	Non-professionals				
Task [3.1]	Mixing and loading (meta-SPC 5)	Non-professionals				
Task [3.2]	Application by spraying	Non-professionals				
Task [3.3]	Post-application - Cleaning of the spray equipment (meta-SPC 5)	Non-professionals				
[Scenario 4]	Crack and crevices	Non-professionals				
Secondary exposure						
[Scenario 5]	Re-entry in the treated room – inhalation (meta-SPC 3)	Non-professionals / General public				
[Scenario 6]	Contact with the treated surface	General public (adult)				
[Scenario 7]	Infant crawling on the treated surface and hand-to-mouth transfer	General public (infant)				

Reference values to be used in Risk Characterisation - Cypermethrin

Reference	Study	NOAEL (LOAEL)	AF	Correction for oral absorption	Value
AELshort-term	Rat, acute delayed neurotoxicity, oral behavioural effects	20 mg/kg/d	100	44%	0.088 mg/kg bw/d
AELmedium- term	Dog, 90-days, oral	12.5 mg/kg/d	100	44%	0.055 mg/kg bw/d
AELlong-term	Rat, y-years, oral	5 mg/kg/d	100	44%	0.022 mg/kg bw/d
ARfD	AR (BE, 2019): A ADI and ARfD we	0.2 mg/kg bw/d			
ADI	the Plant Protecti Cypermethrin, EF		gulation	; DAR	0.05 mg/kg bw/d

Industrial exposure

Not relevant.

Professional exposure

Not relevant.

Non-professional exposure

Scenario [1] - Direct application on insects (Meta-SPC 1, 2 and 6)

Description of Scenario [1] - Direct application on insects

Products of meta-SPC 1, 2 and 6 are RTU aerosols to be used by non-professional users by direct spraying on insects, outdoor (and indoor for meta-SPC 6).

To assess the dermal and inhalation exposure expected during the application, the **air space application model from ConsExpo Pest Control Products Fact Sheet – Exposure to spray - Spraying** (inhalation) and **Constant rate** (dermal) is used. Default values from the Consexpo model are used for the modelisation, with parameters for an indoor application, as there is no specific model for outdoor application. The mass generation rates of 17.5 g/s for Meta-SPC 1 and 2.98 g/s for Meta-SPC 2 and 6 used for the modelisation have been determined in the APCP section.

In a Tier 2 for Meta-SPC 1 and 2, a reverse scenario is done to determine the maximum duration the user has to stay in the room before reaching the AEL medium-term.

A qualitative local risk assessment is also performed.

Parameters	Value	Justification
------------	-------	---------------

Descri	otion of Scenario [1] - Direct a	pplication on inse	cts
Tier 1	Concentration of Cypermethrin (Meta-SPC 1)	1.8% w/w	Applicant's data
	Concentration of Cypermethrin (Meta-SPC 2)	2.9% w/w	Applicant's data
	Concentration of Cypermethrin (Meta-SPC 6)	0.73% w/w	Applicant's data
	Body weight	60 kg	Ad hoc Recommendatin 14
	Spray duration	0.33 min	Default value for air space application model from Consexpo Pest Control Products Factsheet
	Exposure duration	240 min	Default value for air space application model from Consexpo Pest Control Products Factsheet
	Room volume	20 m3	Default value from General Consexpo Factsheet
	Room height	2.5 m	Standart room height
	Ventilation rate	0.6/h	Default value from General Consexpo Factsheet for unspecified room
	Inhalation rate	1.25 m3/h	Ad hoc Recommendation 14
	Mass generation rate	17.5 g/s (meta- SPC 1) 2.98 g/s (meta- SPC 2 and 6)	Applicant's data (APCP section)
	Airborne fraction	0.3	Default value for air space application model from Consexpo Pest Control Products Factsheet
	Density non volatile	1.8 g/cm3	Default value for air space application model from Consexpo Pest Control Products Factsheet
	Inhalation cut off diameter	15 μm	Default value for air space application model from Consexpo Pest Control Products Factsheet
	Median diameter	28.2 μm	Default value for air space application model from Consexpo Pest Control Products Factsheet
	Arithmetic coefficient of variation	1.6	Default value for air space application model from Consexpo Pest Control Products Factsheet

Descript	Description of Scenario [1] - Direct application on insects					
	Maximum diameter	50 μm	Default value for air space application model from Consexpo Pest Control Products Factsheet			
	Inhalation absorption	100%	Default value			
	Dermal contact rate	269 mg/min	Default value for air space application model from Consexpo Pest Control Products Factsheet			
	Dermal absorption	70%	Default value according to EFSA Guidance 2017			
Tier 2	Exposure duration	5 min (meta-SPC 1) 20 min (meta- SPC 2)	See explanation above			

Calculations for Scenario [1]

Summary table: systemic exposure from non-professional uses						
Exposure scenario	Tier/PPE	Estimated inhalation uptake (mg/kg bw/d)	Estimated dermal uptake (mg/kg bw/d)	Estimated oral uptake (mg/kg bw/d)	Estimated total uptake (mg/kg bw/d)	
Scenario [1] - Meta-SPC 1	1/ No PPE	1.66x10 ⁻¹	1.86x10 ⁻²	nr	1.84x10 ⁻¹	
Scenario [1] - Meta-SPC 1	2/ No PPE (5 min)	3.56x10 ⁻²	1.86x10 ⁻²	nr	5.43x10 ⁻²	
Scenario [1] - Meta-SPC 2	1/ No PPE	4.54x10 ⁻²	3.00x10 ⁻²	nr	7.55x10 ⁻²	
Scenario [1] - Meta-SPC 2	2/ No PPE (20 min)	2.45x10 ⁻²	3.00x10 ⁻²	nr	5.46x10 ⁻²	
Scenario [1] - Meta-SPC 6	1/ No PPE	1.14x10 ⁻²	7.56x10 ⁻³	nr	1.90x10 ⁻²	

Scenario [2] - Air space treatment (meta-SPC 3)

Description of Scenario [2] – Air space treatment (meta-SPC 3)

Products of meta-SPC 3 are ready-to-use one-shot aerosol insecticides used as space treatment in cellars, basement, crawl space, garages, boxes, attics, barns, sheds or any other premises which are not wet-cleaned. As the product is to be used at an application rate of 1 ml/m3, the non-professional user has to choose the appropriate packaging (from 50 to 750 ml) depending on the volume of the room to treat.

The aerosol is placed vertically, slightly elevated, in the center of the room and is activated by pressing the trigger of the diffuser. The entirety of the packaging (50 to 750 ml) is released into the room, i.e. 39.95 g to 599.25g of product with a density of 0.799, and containing 4.35% w/w cypermethrin.

Description of Scenario [2] – Air space treatment (meta-SPC 3)

To assess exposure during the application, the **air space application model from ConsExpo Pest Control Products Fact Sheet – Exposure to spray - Spraying** (inhalation route) and **Constant rate** (dermal route) is used.

The spray duration is the net spraying time between start and finish of spraying. With a spray rate of 0.44 g/s and an amount of product of 39.95 g (50 ml), it takes 91 seconds (39.95/0.44), or 1.5 min, to empty the aerosol.

Since the user is expected to leave the room directly after the activation of the one-shot aerosol, it is considered that the user is only exposed during the time he stays in the room, which is set at 30 seconds.

After the contact time of 4 hours, the user can re-enter the room to ventilate (opening the window if possible).

р	·/·		
	Parameters	Value	Justification
Tier 1	Concentration of cypermethrin	4.35% w/w	Applicant's data
	Spray duration	91 sec	See calculations above
	Exposure duration (inhalation) / release duration (dermal)	30 sec	See explanation above
	Room volume	20 m3	Default value from Consexpo for unspecified room
	Room height	2.5 m	Default value from Consexpo
	Ventilation rate	0.6/h	Default value from General Consexpo Factsheet for unspecified room
	Inhalation rate	1.25 m3/h	Ad hoc Recommendation 14
	Mass generation rate	0.44 g/s	Applicant's data (APCP section)
	Airborne fraction	0.3	Default value for air space application model from Consexpo Pest Control Products Factsheet
	Density non volatile	1.8 g/cm3	Default value for air space application model from Consexpo Pest Control Products Factsheet
	Inhalation cut off diameter	15 μm	Default value for air space application model from Consexpo Pest Control Products Factsheet
	Median diameter	28.2 μm	Default value for air space application model from Consexpo Pest Control Products Factsheet

Description of Scenario [2] – Air space treatment (meta-SPC 3)						
Arithmetic coefficient of variation	1.6	Default value for air space application model from Consexpo Pest Control Products Factsheet				
Maximum diameter	50 μm	Default value for air space application model from Consexpo Pest Control Products Factsheet				
Inhalation absorption	100%	Default value				
Body weight	60 kg	Ad hoc Recommendation 14				

Calculations for Scenario [2]

Summary table: systemic exposure from non-professional uses						
Exposure scenario	Tier/PPE	Estimated inhalation uptake (mg/kg bw/d)	Estimated dermal uptake (mg/kg bw/d)	Estimated oral uptake (mg/kg bw/d)	Estimated total uptake (mg/kg bw/d)	
Scenario [2]	1/ No PPE	2.11x10 ⁻⁴	6.83x10 ⁻²	nr	6.85x10 ⁻²	

<u>Scenario [3] – Treatment under building (meta-SPC 4, 5 and 7)</u>

- Task [3.1]: Mixing and loading

- Task [3.2]: Application by spraying

- Task [3.3]: Post-application

Task [3.1] - Mixing and loading

Description of Task [3.1] - Mixing and loading

Before use, the product of meta-SPC 5 is to be diluted manually in water at 2% to 8% in a trigger spray. Products of meta-SPC 4 and 7 are RTU, so no dilution is needed. However, a 5L jerrycan is claimed for refill, so the loading step is considered for these products.

According to the Consexpo Pest Control Products Factsheet (p.31), for packaging < 5L or for 5L containers with 45 or 63 mm closure, which is the case for products of meta-SPC 4, 5 and 7 (according to the packaging section and labels), the user can be dermally exposed to 0.01 ml of product per operation. With a density of 0.916, the contamination on the user's hands is equal to 9.16 mg of product.

	Parameters	Value	Justification
Tier 1	Concentration of cypermethrin (meta-SPC 5)	10.87% w/w	Applicant's data

Description of Task [3.1] - Mixing and loading					
Concentration of cypermethrin (meta-SPC 4)	0.87% w/w	Applicant's data			
Concentration of cypermethrin (meta-SPC 7)	0.22% w/w	Applicant's data			
Dermal exposure value	0.01 ml/operation	Values from Consexpo Pest Control Products Factsheet (p.31)			
Density (meta-SPC 5)	0.916	Applicant's data (APCP section)			
Density (meta-SPC 4 and 7)	0.885	Applicant's data (APCP section)			
Dermal absorption (meta-SPC 5)	25%	Default value according to EFSA Guidance 2017			
Dermal absorption (meta-SPC 4 and 7)	70%	Default value according to EFSA Guidance 2017			
Body weight	60 kg	Ad hoc Recommendation 14			

Calculations for Task [3.1]

Summary table: systemic exposure from non-professional uses						
Exposure scenario	Tier/PPE	Estimated inhalation uptake (mg/kg bw/d)	Estimated dermal uptake (mg/kg bw/d)	Estimated oral uptake (mg/kg bw/d)	Estimated total uptake (mg/kg bw/d)	
Task [3.1] - Meta-SPC 5	1/ No PPE	nr	4.15x10 ⁻³	nr	4.15x10 ⁻³	
Task [3.1] - Meta-SPC 4	1/ No PPE	nr	8.98x10 ⁻⁴	nr	8.98x10 ⁻⁴	
Task [3.1] - Meta-SPC 7	1/ No PPE	nr	2.27x10 ⁻⁴	nr	2.27x10 ⁻⁴	

Task [3.2] - Application by spraying

Description of Task [3.2] - Application by spraying

Diluted product of meta-SPC 5 and RTU products of meta-SPC 4 and 7 are sprayed with a trigger spray on surfaces under buildings (crawlspaces, etc.), outdoor. Products of meta-SPC 5 are to be diluted manually in water at 2% to 8%. As a worst-case, the 8% dilution is considered in the assessment, with a concentration of active substance equal to 0.8% w/w.

To assess the dermal and inhalation exposure expected during the application, the **Consumer product spraying and dusting Model 2 – hand-held trigger spray**, from BHHEM (p. 344), is used.

The exposure values from the model are as follow:

- 36.1 mg/min (hand and forearm)
- 9.7 mg/min (legs, feet & face)
- 10.5 mg/m3 (inhalation)

Description of Task [3.2] – Application by spraying

In the ConsExpo Pest Control Products Fact Sheet, a spray duration of 10 minutes is proposed as a default value for general surface application.

	Parameters	Value	Justification	
Tier 1	Concentration of cypermethrin (meta-SPC 5 – 8% dilution)	0.80% w/w	Applicant's data	
	Concentration of cypermethrin (meta-SPC 4)	0.87% w/w	Applicant's data	
	Concentration of cypermethrin (meta-SPC 7)	0.22% w/w	Applicant's data	
	Duration	10 min	Value from ConsExpo Pest Control Products Fact Sheet	
	Body weight	60 kg	Ad hoc Recommendation 14	
Dermal ex	posure			
Tier 1	Dermal exposure value (hand and forearm)	36.1 mg/min	Consumer product spraying and dusting Model 2 – BHHEM (p. 344)	
	Dermal exposure value (legs, feet and face)	9.7 mg/min	Consumer product spraying and dusting Model 2 – BHHEM (p. 344)	
	Dermal absorption	70%	Default value according to EFSA Guidance 2017	
Inhalation	exposure			
	Inhalation exposure value	10.5 mg/m3	Consumer product spraying and dusting Model 2 – BHHEM (p. 344)	
	Inhalation rate	1.25 m3/h	Ad hoc Recommendation 14	
	Inhalation absorption	100%	Default value	
t		· ·	1	

Calculations for Task [3.2]

Summary table: systemic exposure from non-professional uses					
Exposure scenario	Tier/PPE	Estimated inhalation uptake (mg/kg bw/d)	Estimated dermal uptake (mg/kg bw/d)	Estimated oral uptake (mg/kg bw/d)	Estimated total uptake (mg/kg bw/d)
Task [3.2] – Meta-SPC 5	1/ No PPE	2.92x10 ⁻⁴	4.27x10 ⁻²	nr	4.30x10 ⁻²
Task [3.2] - Meta-SPC 4	1/ No PPE	3.17x10 ⁻⁴	4.65x10 ⁻²	nr	4.68×10 ⁻²
Task [3.2] - Meta-SPC 7	1/ No PPE	8.02x10 ⁻⁵	1.18x10 ⁻²	nr	1.18×10 ⁻²

Task [3.3] - Post-application - Cleaning of the spray equipment

Description of Task [3.3] - Post-application - Cleaning of the spray equipment

After the application with the trigger spray, the user can be exposed to the diluted product of meta-SPC 5 and concentrated products of meta-SPC 4 and 7 during the cleaning of the spray equipment.

Dermal exposure during this task is assessed using the **BEAT scenario Cleaning of the spray equipment**.

The exposure values from the model are as follow:

- 35.87 µl/min bp (hand)
- 19.28 μl/min bp (body)

A cleaning duration of 10 min has been considered sufficient for products of meta-SPC 4 and 7 and 5 min for products of meta-SPC 5, as they are water-based.

In Tier 2, for meta-SPC 4, the cleaning of the sprayer is not performed and the risk mitigation measure "Do not clean the trigger spray" is added.

	Parameters	Value	Justification	
Tier 1	Concentration of cypermethrin (meta-SPC 5 – 8% dilution)	0.80% w/w	Applicant's data	
	Concentration of cypermethrin (meta-SPC 4)	0.87% w/w	Applicant's data	
	Concentration of cypermethrin (meta-SPC 7)	0.22% w/w	Applicant's data	
	Dermal exposure value (hand)	35.87 µl/min	BEAT model for Cleaning of spray equipment	
	Dermal exposure value (body)	19.28 µl/min	BEAT model for Cleaning of spray equipment	
	Duration (meta-SPC 5)	5 min	Ad hoc Recommendation 6	
	Duration (meta-SPC 4 and 7)	10 min	See explanation above	
	Dermal absorption	70%	Default value according to EFSA Guidance 2017	
	Body weight	60 kg	Ad hoc Recommendation 14	

Calculations for Task [3.3]

Summary table: systemic exposure from non-professional uses					
Exposure scenario	Tier/PPE	Estimated inhalation uptake (mg/kg bw/d)	Estimated dermal uptake (mg/kg bw/d)	Estimated oral uptake (mg/kg bw/d)	Estimated total uptake (mg/kg bw/d)
Task [3.3] – meta-SPC 5	1/ No PPE	nr	2.57x10 ⁻²	nr	2.57x10 ⁻²
Task [3.3] – meta-SPC 4	1/ No PPE	nr	5.60x10 ⁻²	nr	5.60x10 ⁻²

Summary table: systemic exposure from non-professional uses						
Task [3.3] -	1/ No PPE	nr	1.42x10 ⁻²	nr	1.42x10 ⁻²	
meta-SPC 7						

Combined tasks for Scenario [3]

Summary table: combined systemic exposure from non-professional uses							
Scenarios combined	Tier/PPE	Estimated inhalation uptake (mg/kg bw/d)	Estimated dermal uptake (mg/kg bw/d)	Estimated oral uptake (mg/kg bw/d)	Estimated total uptake (mg/kg bw/d)		
Tasks [3.1] + [3.2] + [3.3] - Meta-SPC 5	1/ No PPE	2.92x10 ⁻⁴	7.26x10 ⁻²	nr	7.29x10 ⁻²		
Tasks [3.1] + [3.2] + [3.3] - Meta-SPC 4	1/ No PPE	3.17x10 ⁻⁴	1.03x10 ⁻¹	nr	1.04×10 ⁻¹		
Tasks [3.1] + [3.2] – Meta-SPC 4	2/ No PPE - RMM	3.17×10 ⁻⁴	4.74×10 ⁻²	nr	4.77x10 ⁻²		
Tasks [3.1] + [3.2] + [3.3] - Meta-SPC 7	1/ No PPE	8.02x10 ⁻⁵	2.61x10 ⁻²	nr	2.62×10 ⁻²		

Scenario [4] - Crack and crevices (meta-SPC 5, 6 and 7)

Description of Scenario [4] – Crack and crevices

Products of meta-SPC 6 are ready-to-use aerosols and products of meta-SPC 5 and 7 are used in trigger sprays (dilution at 2% for meta-SPC 5 and RTU for meta-SPC 7). They are used for applications in crack and crevices. The non-professional user can be exposed to the product via dermal and inhalation routes.

For products of meta-SPC 5 and 7, applied in crack and crevices by trigger spray, the exposure is covered by the exposure during the application on surfaces determined in the Scenario [3]. Please refer to Scenario [3] for further details.

For products of meta-SPC 6, applied by aerosol, the **Crack and crevice model from ConsExpo Pest Control Products Fact Sheet – Exposure to spray - Spraying** is used to assess the exposure during the application.

According to the ConsExpo Factsheet, the duration of the task is 4 min with 240 min of exposure duration.

According to the ACPC section, the spray rate for meta-SPC 6 is 2.98 g/sec.

In a Tier 2 for Meta-SPC 6, a reverse scenario is done to determine the maximum duration the user has to stay in the room before reaching the AEL medium-term. The parameters are used to assess the exposure during the application inside, which covers the application outside.

Description of Scenario [4] - Crack and crevices

	Parameters	Value	Justification		
Tier 1	Concentration of cypermethrin (meta-SPC 6)	0.73% w/w	Applicant's data		
	Spray duration	4 min	Default value from ConsExpo (crack and crevice)		
	Exposure duration	240 min	Default value from ConsExpo (crack and crevice)		
	Room volume	20 m3	Default value from ConsExpo		
	Room height	2.5 m	Default value from Consexpo		
	Ventilation rate	0.6/h	Default value from General Consexpo Factsheet for unspecified room		
	Inhalation rate	1.25 m3/h	Ad hoc Recommendation 14		
	Mass generation rate (meta-SPC 6)	2.98 g/s	Applicant's data (Physical, chemical and technical properties section)		
	Airborne fraction	ction 0.2	Default value for air space sprays, ethanol as main solvent from ConsExpo (p.26)		
	Density non volatile	1.8 g/cm3	Default value from ConsExpo for volatile organic solvents (p.21)		
	Inhalation cut off diameter	15 μm	Default value for crack and crevices model from Consexpo Pest Control Products Factsheet		
	Median diameter	3.6 µm	Default value for crack and crevices model from Consexpo Pest Control Products Factsheet		
	Arithmetic coefficient of variation	0.57	Default value for crack and crevices model from Consexpo Pest Control Products Factsheet		
	Maximum diameter	50 μm	Default value for crack and crevices model from Consexpo Pest Control Products Factsheet		
	Inhalation absorption	100%	Default value		
	Dermal absorption	70%	Default value according to EFSA Guidance 2017		
	Body weight	60 kg	Ad hoc Recommendation 14		

Description of Scenario [4] - Crack and crevices					
Tier 2	Exposure duration (meta-SPC 6)	5 min	See explanation above		

Calculations for Scenario [4]

Summary table: systemic exposure from non-professional uses							
Exposure scenario	Tier/PPE	Estimated inhalation uptake (mg/kg bw/d)	Estimated dermal uptake (mg/kg bw/d)	Estimated oral uptake (mg/kg bw/d)	Estimated total uptake (mg/kg bw/d)		
Scenario [4] - meta-SPC 6	1/ No PPE	7.39x10 ⁻¹	3.41x10 ⁻²	nr	7.73x10 ⁻¹		
Scenario [4] - meta-SPC 6	2/ No PPE - 5 minutes	5.11x10 ⁻²	3.41×10 ⁻²	nr	8.52x10 ⁻²		

Outcome of systemic exposure and risk characterisation

For the scenario [1] – direct application on insects, the applicant claims that the products can be used "as needed". Therefore, the non-professional user can use the products frequently. Thus, the systemic exposure is compared to the medium term AEL (0.055 mg/kg bw/d).

The systemic exposure for scenario [2] – air space application is compared to the short term AEL, as the products are only to be used during infestation and should not be used continuously.

For scenarios [3] and [4], a residual effect up to 4 months is expected. Therefore, the non-professional user is not expected to use the product frequently. Thus, the systemic exposure is compared to the short term AEL (0.088 mg/kg bw/d).

Summary table: estimated systemic exposure and risk characterisation for non-professional users

Exposure scenario	Tier/PPE	Estimated oral uptake [mg/kg bw/day]	Estimated dermal uptake [mg/kg bw/day]	Estimated inhalation uptake [mg/kg bw/day]	uptake [mg/kg	Estimated uptake/ AEL (%)	Exposure/AEL < 100 (Yes/No)
						$\begin{array}{ll} \text{AEL}_{\text{medium-term}} &= \\ 0.055 \text{ mg/kg bw/d} \\ \text{AEL}_{\text{short-term}} &= 0.088 \\ \text{mg/kg bw/d} \end{array}$	
Scenario [1]	1/ no PPE – Meta- SPC 1	nr	1.86x10 ⁻²	1.66x10 ⁻¹	1.84x10 ⁻¹	335%	No
	2/ no PPE - Meta-SPC 1 (5 min)		1.86x10 ⁻²	3.56x10 ⁻²	5.43x10 ⁻²	99%	Yes
	1/ no PPE – Meta- SPC 2	nr	3.00x10 ⁻²	4.54x10 ⁻²	7.55x10 ⁻²	137%	No
	2/ no PPE - Meta-SPC 2 (20 minutes)		3.00x10 ⁻²	2.45x10 ⁻²	5.46x10 ⁻²	99%	Yes
	1/ no PPE – Meta- SPC 6	nr	7.56x10 ⁻³	1.14x10 ⁻²	1.90x10 ⁻²	35%	Yes
Scenario [2]	1/ no PPE	nr	6.83x10 ⁻²	2.11×10 ⁻⁴	6.85x10 ⁻²	78%	Yes
Scenario [3]	1/ no PPE – Meta- SPC 5	nr	7.26x10 ⁻²	2.92x10 ⁻⁴	7.29x10 ⁻²	83%	Yes
	1/ no PPE – Meta- SPC 4	nr	1.03x10 ⁻¹	3.17x10 ⁻⁴	1.04×10 ⁻¹	118%	No
	2/ no PPE - RMM - Meta- SPC 4		4.74x10 ⁻²	3.17×10 ⁻⁴	4.77×10 ⁻²	54%	Yes
	1/ no PPE – Meta- SPC 7	nr	2.61x10 ⁻²	8.02x10 ⁻⁵	2.62x10 ⁻²	30%	Yes
Scenario [4]	1/ no PPE – Meta- SPC 6	nr	3.41x10 ⁻²	7.39x10 ⁻¹	7.73x10 ⁻¹	878%	No
	2/ no PPE - Meta-SPC 6 (5 minutes)		3.41x10 ⁻²	5.11x10 ⁻²	8.52x10 ⁻²	97%	Yes

For the use "Direct application on insects" (scenario 1), the exposure is inferior to AEL for meta SPC 6.

For meta SPC 1 and 2, the exposure is superior to AEL considering 240 minutes of exposure indoor. However, as the product is intended use outdoor, this scenario overestimates the exposure. No model is available to determine the outdoor exposure. Therefore, a reverse scenario is performed to determine the duration of exposure to this concentration necessary to achieve the AEL medium-term (tier 2). A duration of more of 5 and 20 minutes is needed for meta-SPC 1 and 2 respectively.

Considering that a duration of exposure of 5 or 20 minutes at the determined concentration is unlikely outdoor, the systemic risk is considered acceptable.

For use "air space treatment" (scenario 2), the exposure is inferior to AEL.

For use "treatment under building" (scenario 3), the exposure is inferior to AEL for meta SPC 5 and 7.

For meta SPC 4, the combined exposure is superior to AEL. Therefore, a RMM to not rinse the trigger spray is needed: "**Do not clean** the trigger spray"

For the use "Crack and crevices" (scenario 4), the exposure indoor is superior to AEL considering 240 minutes of exposure for meta SPC 6. Therefore, **the use indoor is unacceptable**.

As the product is intended use also outdoor, a reverse scenario is performed to determine the duration of exposure at the concentration determined previously necessary to achieve the AEL (tier 2). A duration of more of 5 minutes is needed.

Considering that a duration of exposure of 5 minutes at the determined concentration is unlikely outdoor, the systemic risk is considered acceptable. This scenario is a worst case for meta SPC 5 and 7. Therefore, the risk is also acceptable for the outdoor uses of these meta SPC.

Outcome of qualitative local risk assessment for non-professional users: Products of meta-SPC 1, 2, 3 and 6 are eye irritant.

Meta-SPC 2 and 6

LOW	Eye Irrit. Cat 2 (H319)	18	Spraying (direct application on insects, crack and crevices)	Eyes	Frequency: As needed for application on insects and minimum every 4 months for crack and crevices Duration: few seconds	Eye exposure through potentia spraying or hand-to-eye transfer	l Equal to or less than one hour per day	As the exposure of eyes is inferior to the recommandations for acceptable risk, the risk is acceptable with the following RMMs: "Wash hands after use" "Indoor, to be sprayed downwards if possible"	 (↓) Instructions for use and RMM on the label (wash hands after use, to be sprayed downwards) (↓) Low exposure duration (less than one hour per day) (↓) Low frequency (↑) Spraying (↓) Outdoor for several uses
						Meta-SPC 3 (air s	space treatment)		
LOW	Eye Irrit. Cat 2 (H319)	18	Spraying (air space application)	Eyes	Duration: few seconds	Eye exposure through potential spraying or hand-to-eye transfer	Equal to or less than one hour per day	As the exposure of eyes is inferior to the recommandations for acceptable risk, the risk is acceptable with the following RMMs: - "Wash hands after use" - "Leave the room directly after spraying process is triggered"	 (↓) Instructions for use and RMM on the label (washing on hands after use, leave the room directly after spraying process is triggered) (↓) Low exposure duration (less than one hour per day) (↓) Practically no exposure (↑) Spraying

Conclusion

For products of the family CHIMIGET_CYPER, used by non-professional users, the risk is unacceptable for the use crack and crevices indoor of meta SPC 6. For the other uses, the risk is acceptable considering the quantitative risk assessment for systemic effects and the qualitative risk assessment for local effects.

The following risk mitigation measures (RMM) have to be applied:

- For meta-SPC 1 for direct application on insects:
 - •Wash hands after use
 - •Do not spray towards people and animals
- For meta-SPC 2 and 6 for direct application on insects:
 - Wash hands after use
 - •Indoor, to be sprayed downwards if possible
- For meta-SPC 3:
 - Wash hands after use
 - •Leave the room directly after spraying process is triggered.
- For meta-SPC 4:
 - •Do not clean the trigger spray
- For meta-SPC 6 for crack & crevice application (outdoor):
 - •Wash hands after use

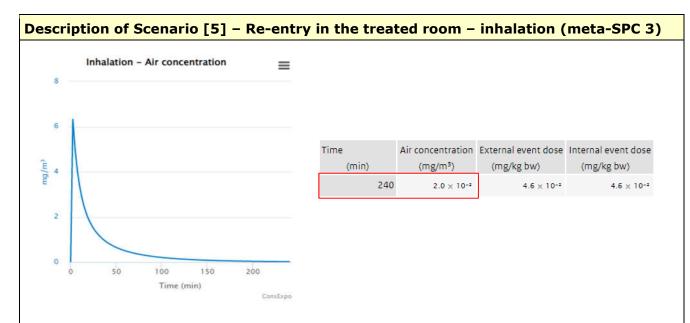
Secondary exposure of the general public

<u>Scenario [5] - Re-entry in the treated room - inhalation (meta-SPC 3)</u>

Description of Scenario [5] - Re-entry in the treated room - inhalation (meta-SPC 3)

After the air space application and a waiting period of 4 hours, the user can re-enter the treated room to ventilate, if a window is present, which may not be the case as this application is specific for cellars, basement, crawl space, garages, boxes, attics, barns, sheds or any other premises which are not wet-cleaned.

The ConsExpo model is used to estimate the in-air cypermethrin concentration 4h after the application started:



Then, the **Exposure to spray – instantaneous** release model is used to estimate the inhalation uptake when the adult and the infant stays in the room for 24h, with window closed as a worst-case scenario. To determine this exposure, 0.4 mg of cypermethrin $(2x10^{-2} \text{ mg/m3} \times 20 \text{ m3})$ is considered.

	Parameters	Value	Justification
Tier 1	Concentration of cypermethrin	4.35% w/w	Applicant's data
	Exposure duration	240 min	Contact time claimed by the applicant
	In-air concentration of Cypermethrin after 4h	2.0x10 ⁻² mg/m3	ConsExpo – Exposure to spray – Instantaneous release model
	Amount of cypermethrin	0.4 mg	See explanation above
	Duration of stay in the room	24h	Default value
	Room volume	20 m3	Default value from General Consexpo Factsheet for unspecified room
	Ventilation rate	0.6 /h	Default value from General Consexpo Factsheet for unspecified room – windows closed
	Inhalation rate (adult / infant)	1.25 / 0.84 m3/h	Ad hoc Recommendation 14
	Body weight (adult / infant)	60 / 8 kg	Ad hoc Recommendation 14

Calculations for Scenario [5]

Summary table: systemic exposure from non-professional uses								
Exposure scenario	Tier/PPE	Estimated inhalation uptake (mg/kg bw/d)	Estimated dermal uptake (mg/kg bw/d)	Estimated oral uptake (mg/kg bw/d)	total uptake			
Scenario [5] - adult	1/ No PPE	6.94x10 ⁻⁴	nr	nr	6.94x10 ⁻⁴			
Scenario [5] - infant	1/ No PPE	5.21x10 ⁻³	nr	nr	5.21x10 ⁻³			

Scenario [6] - Contact with the treated surface

Description of Scenario [6] - Contact with the treated surface

Products of meta-SPC 3 and 6 are the only one applied indoors. After the application of the product, either air space application for meta-SPC 3 or direct application on insects for meta-SPC 6, the general public can accidently be in contact with wet treated surfaces.

The exposure by dermal route is determined using the volume of product which could be in contact with the skin, using the application rate (1 ml/m3, equivalent to 0.4 ml/m² with a room height of 2.5m) and the surface area in contact with the surface, corresponding to one palm of hand.

Calculations are made with 4.35% w/w cypermethrin.

Exposure by inhalation for meta-SPC 3 has been assessed in Scenario [5].

	Parameters	Value	Justification	
Tier 1	Concentration of cypermethrin (meta-SPC 3)	4.35% w/w	Applicant's data	
	Concentration of cypermethrin (meta-SPC 6)	0.73% w/w	Applicant's data	
	Application rate (meta-SPC 3)	1 ml/m3	Applicant's data	
	Application rate (meta-SPC 6)	17.5 g/m ²	Applicant's data	
	Surface area (one palm)	205 cm ²	Ad hoc Recommendation 14	
	Layer of thickness	0.01 cm	Default value	
	Dermal absorption	70%	Default value according to EFSA Guidance 2017	
	Body weight	60 kg	Ad hoc Recommendation 14	

Calculations for Scenario [6]

Summary table: systemic exposure from non-professional uses						
Exposure scenario	Tier/PPE	Estimated inhalation uptake (mg/kg bw/d)	•	Estimated oral uptake (mg/kg bw/d)	total uptake	

Summary table: systemic exposure from non-professional uses								
Scenario [6] - meta-SPC	1/ No PPE	nr	3.33x10 ⁻⁶	nr	3.33x10 ⁻⁶			
3								
Scenario [6] - meta-SPC	1/ No PPE	nr	3.06x10 ⁻⁵	nr	3.06x10 ⁻⁵			
6								

Scenario [7] - Infant crawling on treated surface and hand-to-mouth transfer

Description of Scenario [7] – Infant crawling on treated surface and hand-to-mouth transfer

Products of meta-SPC 3 and 6 are the only one applied indoors. For meta-SPC 3, after the 4h retention time of the air space treatement, infants (considered as the worst-case population) can crawl into the room and be dermally exposed to the treated surface. They also can be orally exposed to the active substances after hand-to-mouth transfer. They also can be exposed to products of meta-SPC 6 after the application on crack and crevices.

The systemic exposure by dermal and oral route is determined using the parameters established in the HEEG Opinion 7 on Choice of secondary exposure parameters for PTs 2, 3 and 4, which can also be used for PT18.

It is indicated that the external dose is calculated as follow:

External dose = $S_{area} \times F_{dislod} \times Wf$

S_{area} is the total area rubbed during exposure, calculated as the product of the transfer coefficient and exposure duration.

 F_{dislog} is the amount of product applied on a surface area that may potentially be wiped off per unit of surface area. This factor is dependent on the application rate (1 ml/m3 pour meta-SPC 3 and 17.5 g/m² for meta-SPC 6) and the dislodgeable fraction of residues from the surface.

According to the ConsExpo Pest Control Products Fact Sheet, 10% of the dermal exposure is taken in orally due to hand-to-mouth transfer.

Products of meta-SPC 3 and meta-SPC 6 contain 4.35% w/w and 0.73% of cypermethrin respectively.

Exposure by inhalation for meta-SPC 3 has been assessed in Scenario [5].

	Parameters	Value	Justification
Tier 1	Concentration of cypermethrin (meta-SPC 3)	4.35% w/w	Applicant's data
	Concentration of cypermethrin (meta-SPC 6)	0.73% w/w	Applicant's data
	Transfert coefficient	2000 cm ² /h	Ad hoc Recommendation 12
	Exposure duration	1h	Default value. It is supposed that an infant crawls on the treated floor one hour per day.
	Application rate (meta-SPC 3)	1 ml/m3	Applicant's data
	Application rate (meta-SPC 6)	17.5 g/m ²	Applicant's data

Description of Scenario [7] – Infant crawling on treated surface and hand-to-mouth transfer					
Dislodgeable fraction	18%	BHHEM (p.171). For various type of surfaces.			
Dermal absorption	70%	Default value according to EFSA Guidance 2017			
Fraction of dermal exposure taken orally	10%	ConsExpo Pest Control Products Fact Sheet			
Oral absorption	57%	CAR of Cypermethrin			
Body weight	8 kg	Ad hoc Recommendation 14			

Calculations for Scenario [7]

	Summary table: systemic exposure from non-professional uses						
Exposure scenario	Tier/PPE	Estimated inhalation uptake (mg/kg bw/d)	Estimated dermal uptake (mg/kg bw/d)	Estimated oral uptake (mg/kg bw/d)	Estimated total uptake (mg/kg bw/d)		
Scenario [7] - meta-SPC 3	1/ No PPE	nr	3.94x10 ⁻²	3.57x10 ⁻³	4.30×10 ⁻²		
Scenario [7] - meta-SPC 6	1/ No PPE	nr	3.62 x10 ⁻¹	3.28x10 ⁻²	3.95 x10 ⁻¹		

Combined Scenarios (meta-SPC 3)

Summar	Summary table: combined systemic exposure from non-professional uses						
Scenarios combined	Estimated inhalation uptake (mg/kg bw/d)	Estimated dermal uptake (mg/kg bw/d)	Estimated oral uptake (mg/kg bw/d)	Estimated total uptake (mg/kg bw/d)			
Scenarios [5] + [6] - adult	6.94×10 ⁻⁴	3.33x10 ⁻⁶	nr	6.97x10 ⁻⁴			
Scenarios [5] + [7] - infant		3.94x10 ⁻²	3.57x10 ⁻³	4.82x10 ⁻²			

Outcome of systemic exposure and risk characterisation

Summary table: estimated systemic exposure and risk characterisation for general public

	Summary table: estimated systemic exposure and risk characterisation for non-professional users						
Exposure scenario	Tier/PPE	Estimated oral uptake [mg/kg bw/day]	Estimated dermal uptake [mg/kg bw/day]	Estimated inhalation uptake [mg/kg bw/day]	Estimated total uptake [mg/kg bw/day]		Exposure < AEL (Yes/No)
Scenario [5] - adult	1/ no PPE	nr	nr	6.94x10 ⁻⁴	6.94x10 ⁻⁴	1%	Yes
Scenario [5] - infant	1/ no PPE	nr	nr	5.21x10 ⁻³	5.21x10 ⁻³	6%	Yes
Scenario [6] – meta-SPC 3	1/ no PPE	nr	3.33x10 ⁻⁶	nr	3.33x10 ⁻⁶	0.004%	Yes
Scenario [6] – meta-SPC 6	1/ no PPE	nr	3.06x10 ⁻⁵	nr	3.06x10 ⁻⁵	0.03%	Yes
Scenario [7] – meta-SPC 3	1/ no PPE	3.57x10 ⁻³	3.94x10 ⁻²	nr	4.30x10 ⁻²	49%	Yes
Scenario [7] – meta-SPC 6	1/ no PPE	3.28x10 ⁻²	3.6x10 ⁻¹	nr	3.95x10 ⁻¹	449%	No

Combined scenarios

Outcome of combined systemic exposure and risk characterisation

Summary table: combined local exposure and risk characterisation for non-professional bystanders/general public

Summar	Summary table: combined systemic exposure and risk characterisation for professional bystanders and non-professional bystanders/general public						
Scenarios combined	Tier/PPE	Estimated oral uptake [mg/kg bw/day]	Estimated dermal uptake [mg/kg bw/day]	Estimated inhalation uptake [mg/kg bw/day]	Estimated total uptake [mg/kg bw/day]	Estimated uptake/ AEL (%) AEL _{short-term} = 0.088 mg/kg bw/d	Exposure < AEL (Yes/No)
Scenarios [5] + [6] - adult	1/no PPE	nr	3.33x10 ⁻⁶	6.94x10 ⁻⁴	6.97x10 ⁻⁴	1%	Yes
Scenarios [5] + [7] - infant - meta-SPC 3	1/ no PPE	3.57x10 ⁻³	3.94x10 ⁻²	5.21x10 ⁻³	4.82x10 ⁻²	55%	Yes

Secondary exposure to the product after re-entering the room (meta-SPC 3) is considered acceptable for the general public with the application of the following RMM:

•Do not enter the room before a waiting time of 4h.

The risk is acceptable for infants crawling on the treated floor, considered the quantitative risk assessment for meta-SPC 3, with the following RMM:

- The product must be applied at the claimed application rate of 1 ml/m3.

The risk is acceptable when a treated surface is touched.

The risk is not acceptable for infants crawling on the treated floor, considered the quantitative risk assessment for meta-SPC 6. Therefore, a RMM is needed for indoor use:

•For use only in areas that are inaccessible to infants, children, companion animals and non-target animals.

Overall conclusion

	Conclusion and RMMs
Meta	SPC 1
Direct spray on insect (outdoor)	Acceptable with the following RMM: Wash hands after use Do not spray towards people and animals
Meta	SPC 2
Direct spray on insect (outdoor)	Acceptable with the following RMM: Wash hands after use
Meta	SPC 3
Air space treatment (indoor)	Acceptable with the following RMMs: Wash hands after use Leave the room directly after spraying process is triggered Do not enter the room before a waiting time of 4h. The product must be applied at the claimed application rate of 1 ml/m³.
Meta	SPC 4
Treatment under building (outdoor)	Acceptable with the following RMM: Do not clean the trigger spray
Meta	SPC 5
Crack and crevice (outdoor)	Acceptable
Treatment under building (outdoor)	Acceptable
Meta	SPC 6
Direct spray on insect (indoor and outdoor)	Acceptable with the following RMM: Wash hands after use Indoor, to be sprayed downwards if possible
Crack and crevice (indoor and outdoor)	Indoor: unacceptable Outdoor: acceptable with the following RMM → Wash hands after use
	SPC 7
Crack and crevice (outdoor)	Acceptable
Treatment under building (outdoor)	Acceptable

Monitoring data

Not relevant.

Dietary exposure

The products of the CHIMIGET_CYPER family contain cypermethrin cis/trans 40/60 (CAS No. 52315-07-8). According to the Document I, Evaluation Report of this active substance (Product-Type 18, February 2017), an ARfD of 0.2 mg/kg bw and an ADI of 0.05 mg/kg/day are set, based on derivation made for the Plant Protection Products regulation; DAR Cypermethrin, EFSA February 2005. Therefore, a consumer safety evaluation is deemed necessary for this active substance.

However, the products of the Chimiget_cyper family are not intended to be used near food, feed, drinks or food-producing animals, and on surfaces and facilities in the vicinity of or likely to be in contact with food, feed and drinks. Indeed, no direct or indirect contact with food, feed and drinks is expected according to the use of the products.

For META SPC 1, the product is used outdoor and sprayed directly on the insects. Therefore, no contamination of food is expected and no specific risk mitigation measures are needed.

Nevertheless, for META SPC 2, 3, 4, 5, 6 and 7 to avoid any risk of contamination, following risk mitigation measure is proposed: "Do not use directly on or near food, feed or drinks, or on surfaces or utensils likely to be in direct contact with food, feed, drinks and livestock".

Furthermore, regarding use linked to META SPC3 (indoor space treatment by fogging), the applicant states that META SPC 3 is not intended for use in any habitable rooms within the dwelling. The product is to be used in areas which are inaccessible to children and pets (specifically cats) such as attics and crawlspaces. Since commodities can be stored in such areas, as in cellars, to prevent any risk of contamination, an additional mitigation measure is added for this meta-SPC: "Do not use in places where food or feed is stored, prepared or eaten".

Taking into account authorized uses and additional RMMs residues in food are not considered relevant. Therefore, no further assessment is considered necessary.

Information of non-biocidal use of the active substance

Residue definitions

	Summary table of other (non-biocidal) uses					
	Sector of use ¹	Intended use	Reference value(s) ²			
1.	Plant protection products	Insecticide (authorised under Reg. 1107/2009)	Cypermethrin (Residue definition: Cypermethrin (cypermethrin including other mixtures of constituent isomers (sum of isomers)) MRL from 0.05 mg/kg to 3 mg/kg (Reg. (EU) 2017/626).			
2	Veterinary medicinal products	Antiparasitic agents/Agents against ectoparasites	Residue definition: Cypermethrin (sum of isomers) MRL (all ruminants)*: 20 µg/kg in muscle, liver, kidney 200 µg/kg in fat MRL (Salmonidae)*: 50 µg/kg in muscle and skin			

*Reg (EU) 37/2010

Estimating Livestock Exposure to Active Substances used in Biocidal Products

Not relevant

Estimating transfer of biocidal active substances into foods as a result of professional and/or industrial application(s)

Not relevant

Maximum residue limits or equivalent

No specific biocide MRLs are established for this active substance. Nevertheless, MRLs are established in Regulation (EU) 1107/2009 and Regulation (EU) 37/2010 (See paragraph above "Information of non-biocidal use of the active substance").

Risk for consumers via residues in food

The product does not come into direct or indirect contact with food and feedstuff when used according to label instructions and the RMMs (see section dietary exposure). Therefore, risk for consumers via residues in food is not considered relevant.

2.2.7 Risk assessment for animal health

In the risk assessment for human health, for meta-SPC 6, the risk is not considered acceptable for infant crawling into the treated floor and being orally exposed to the product by hand-to-mouth transfer. A RMM has been added in order to protect the general public. The same RMM is therefore required to avoid animal exposure:

- For use only in areas that are inaccessible to infants, children, companion animals and non-target animals.

For all meta-SPC, the following RMM is required:

- Keep cats away from treated surfaces. Due to their particular sensitivity to pyrethroids toxicity, the product can cause severe adverse reactions in cats.

2.2.8 Risk assessment for the environment

The biocidal products of the CHIMIGET_CYPER family are insecticides containing between 0.22 and 10.87% w/w cypermethrin. They are intended to be used by non-professionals only, indoors and/or outdoors, against flying and crawling insects or wasps and hornets. The biocidal product family (BPF) contains several biocidal products (aerosol dispenser, ready to use (RTU) and concentrated liquid products) grouped into seven sub-groups (Meta-SPC).

The products used outdoor lead to the exposure of the soil as a primary receiving environmental compartment in rural area and the sewage streatment plant (STP) in urban area. While the uses of the products take place indoor, they lead to the exposure of the STP as primary receiving environmental compartment.

Substances of concern and metabolites:

No metabolites are formed and no substances of concern are identified.

The following risk assessment is therefore carried out for the active substance only according to the Competant Authority Report (CAR).

2.2.8.1 Effects assessment on the environment

Information relating to the ecotoxicity of the biocidal product which is sufficient to enable a decision to be made concerning the classification of the product is required

The biocidal product family does not contain any other co-formulants that are classified for an environmental hazard. The classificitation of the different Meta-SPC is therefore driven by the active substance, cypermethrin. The harmonised classification of cypermethrin (ATP 17 Regulation, applicable in December 2022) is Aquatic Acute 1, H400 (with an M-factor of 100 000) and Aquatic Chronic 1, H410 (with an M-factor of 100 000).

The biocidal product family classification is summarized in the table below (see the detailed calculation based on the composition in the confidential annex).

	Meta-SPC						
	1	2	3	4	5	6	7
a.s. concentration (% w/w)	0.54	0.54- 0.87	0.54-0.87	0.54-0.87	10.87	0.22	0.22
Classification	H400 ; H410						

Further Ecotoxicological studies

No new data is available.

Effects on any other specific, non-target organisms (flora and fauna) believed to be at risk (ADS)

No new data is available.

Supervised trials to assess risks to non-target organisms under field conditions

Not relevant.

Data waiving					
Information requirement	Not relevant				
Justification	The products are not in the form of bait or granules.				

Studies on acceptance by ingestion of the biocidal product by any non-target organisms thought to be at risk

Not relevant.

Data waiving					
Information requirement	Not relevant				
Justification	The products are not in the form of bait or granules.				

Secondary ecological effect e.g. when a large proportion of a specific habitat type is treated (ADS)

Not relevant.

Foreseeable routes of entry into the environment on the basis of the use envisaged

According to the intended uses, the following releases may occur:

- After **indoor spray application** and wet cleaning of treated or contaminated area, the Sewage Treatment Plant (STP) is considered as the main receiving compartment. Then, the final environmental compartments will be surface water and sediment (through STP effluent), soil and groundwater (from STP sludge application).
- After **outdoor application in rural area**, the soil is considered as the main receiving compartment due to the emissions directly on soil during loading/mixing step, application step and wash-off by rain-fall. The groundwater can be contaminated after leaching from the exposed soil.
- After **outdoor application in urban area,** the Sewage Treatment Plant (STP) is considered as the main receiving compartment. Then, the final environmental compartment will be surface water and sediment (through STP effluent), soil and groundwater (from STP sludge application).

Further studies on fate and behaviour in the environment (ADS)

No data is available.

Data waiving	
Information	No data is available.
requirement	
Justification	The product contains a single active substance and does not contain any environmentally relevant substance of concern or co-formulant which is likely to alter the environmental fate and behaviour (degradation or mobility) of the active substance, cypermethrin. The environmental fate and behaviour of the products may therefore be extrapolated from information available on the active substance.

Leaching behaviour (ADS)

No new data is available.

Testing for distribution and dissipation in soil (ADS)

No new data is available.

Testing for distribution and dissipation in water and sediment (ADS)

No new data is available.

Testing for distribution and dissipation in air (ADS)

No new data is available.

If the biocidal product is to be sprayed near to surface waters then an overspray study may be required to assess risks to aquatic organisms or plants under field conditions (ADS)

Not relevant.

If the biocidal product is to be sprayed outside or if potential for large scale formation of dust is given then data on overspray behaviour may be required to assess risks to bees and non-target arthropods under field conditions (ADS)

Not relevant.

PNEC values summary table

Based on the cypermethrin assessment report, the relevant PNECs for the environmental risk characterisation are reported below.

PNEC		Justification
PNEC _{STP}	1.63 mg/L	An EC $_{50}$ of 163 mg/L from a microbial activity inhibition test is reported in the CAR (2019). An assessment factor (AF) of 100 was applied to the EC $_{50}$ to derive the PNEC.
PNECwater	4.00E-06 mg/L	The PNEC $_{\text{water}}$ presented in the CAR (2019) was derived from the NOEC of 0.04 $\mu g/L$ for daphnia and an AF of 10.
PNECsediment,EPM	0.005 mg/kg wwt	Equilibrium partitioning method. This value already considers the additional factor of 10 needed in case of high Koc value
PNEC _{soil}	0.07 mg/kg wwt	The PNEC _{soil} presented in the CAR (2019) was derived from the chronic earthworm NOEC reproduction (4 mg/kg dwt) with an AF of 50.
PNEC _{oral bird}	33.3 mg/kg feed	The PNECoral for secondary poisoning of birds is derived by applying an assessment factor of 30 to the chronic NOEC of 1000 mg/Kg feed.

PNECoral mammal	3.3 mg/kg food	The PNECoral for secondary poisoning of mamal is derived by applying an assessment factor of 30 to the chronic rat study NOEC of 5 mg/Kg bw/d.
-----------------	----------------	--

2.2.8.2 Exposure assessment

General information

Assessed PT	PT 18	
Assessed scenarios	Scenario 1: Indoor spot application by spray in cracks and crevices (along windows and doors) Scenario 2: Indoor spot application by spray on surface Scenario 3: Indoor fogging application for an air space treatment (one-shot aerosol) Scenario 4: Spray application in crawling space Scenario 5: Outdoor spot application by spray in cracks a crevices (along windows and doors) Scenario 6: Direct spray on insects outdoor – application bare soil Scenario 7: Direct spray on insects outdoor – application impermeable ground	
ESD(s) used	Emission Scenario Document for Product Type 18: Insecticides, Acaricides and products to control other arthropods for household and professional uses	
Approach	For all scenarios: Average consumption	
Distribution in the environment	Estimated according to: - Guidance on the BPR: Volume IV Environment, Assessment & Evaluation (Parts B+C) - Technical Agreements for Biocides Environment, Version DB, 09 November 2021.	
Groundwater simulation	No	
Confidential Annexes	No	
Life cycle steps assessed	All scenarios: Production: No Formulation: No Use: Yes Service life: No	
Remarks	-	

Emission estimation

Scenario 1: Indoor spot application by spray in cracks and crevices (along windows and doors)

18

The scenario for the indoor spot application by spray in cracks and crevices covers the use #2 of Meta-SPC 6 with the following use description: Spray the product as target spots, into cracks and crevices where the insects pass (spots near the windows, around the doors, on the skirting boards...). As the product is applied by non-professionals, only domestic houses have been considered.

Local emission due to targeted spraying (spot application) in cracks and crevices was calculated using ESD for PT18 Emission models for indoor treatments – application by spraying (incl. cleaning) – spot application. In fact, the use of a 2 $\rm m^2$ application can also be justified by the TAB entry ENV 35 that defines the length of doorstep and window treatment to be 10 m. As the treatment is in the cracks and crevices, it is reasonable to consider a width of the barrier lower than 20 cm corresponding to a worst-case surface of 2 $\rm m^2$.

The product of Meta-SPC 6 is ready-to-use RTU aerosol. No dilution and no loading are needed. Therefore, no emission occurs during the mixing/loading step.

According to the assay GENVPF5561 (see the confidential annex) provided by the applicant, the aerosol can be considered similar to a spray. In fact, the applicant demonstrated that the diameter of the treated area was around 10 cm and the spray is described as regular, homogeneous, powerful and flowing. Therefore, according to the ESD PT18, the cleaning efficiency used must be 0.25 as for a spray application, as this type of aerosol does not allow a targeted application that would justify a cleaning efficiency of only 0.03.

Input parameters for calculating the local emission			
Input	Value	Unit	Remarks
Fraction of active substance in the commercial product (F _{AI})	0.0022	[-]	Set value
Number of private houses connected to the same STP (N _{house})	4000	[-]	Default value
Total area applied with insecticide in a standard house (AREA _{treated})	2	m²	TAB ENV 144 (spot application)
Quantity of commercial product applied per m^2 (Q_{prod})	0.0175	kg.m ⁻²	Set value
Number of applications per day (N _{appl})	1	d ⁻¹	Default value
Fraction emitted to air during application step (Fapplication,air)	0.02	[-]	Default value
Fraction emitted to applicator during application step (Fapplication, applicator)	0.02	[-]	Default value
Fraction emitted to floor during application step (F _{application,floor})	0.11	[-]	Default value
Fraction emitted to treated surfaces during application step (F _{application,treated})	0.85	[-]	Default value

Simultaneity factor for indoor uses of insecticide in standard houses (F_{sim})	0.008151	[-]	Default value for 3- 11 times a year considering a residual effect of 4 months
Cleaning efficiency (F _{CE})	0.25	[-]	Default value for a spray in cracks and crevices

Calculations for Scenario 1:

```
\begin{split} &\mathsf{E}_{\mathsf{appli},\mathsf{applicator}} = \mathsf{N}_{\mathsf{appl}} * \mathsf{Q}_{\mathsf{prod}} * \mathsf{F}_{\mathsf{AI}} * \mathsf{AREA}_{\mathsf{treated}} * \mathsf{F}_{\mathsf{application},\mathsf{applicator}} * 0.001 \\ &\mathsf{E}_{\mathsf{appli},\mathsf{floor}} = \mathsf{N}_{\mathsf{appl}} * \mathsf{Q}_{\mathsf{prod}} * \mathsf{F}_{\mathsf{AI}} * \mathsf{AREA}_{\mathsf{treated}} * \mathsf{F}_{\mathsf{application},\mathsf{floor}} * 0.001 \\ &\mathsf{E}_{\mathsf{appli},\mathsf{treated}} = \mathsf{N}_{\mathsf{appl}} * \mathsf{Q}_{\mathsf{prod}} * \mathsf{F}_{\mathsf{AI}} * \mathsf{AREA}_{\mathsf{treated}} * \mathsf{F}_{\mathsf{application},\mathsf{treated}} * 0.001 \end{split}
```

 $\textbf{Elocal}_{water} = \left(\textbf{E}_{appli,applicator} + \textbf{E}_{appli,floor} * \textbf{F}_{CE} + \textbf{E}_{appli,treated} * \textbf{F}_{CE}\right) * \textbf{N}_{house} * \textbf{F}_{sim}$

Resulting local emission to relevant environmental compartments			
Compartment	Local emission (Elocal _{water}) [kg/d]	Remarks	
STP	6.53E-04	-	

Scenario 2: Indoor spot application by spray on surface

The scenario for the indoor application by spraying on surface covers the following uses of Meta-SPC 6:

- Direct spraying on insects indoor (use#1)
- Target surface spraying as spots application indoor (use#2)

Local emission due to surface application was calculated using ESD for PT18 Emission models for indoor treatments – application by spraying (incl. cleaning) – spot application.

The product of Meta-SPC 6 is ready-to-use RTU aerosol. No dilution and no loading are needed. Therefore, no emission occurs during the mixing/loading step.

For the use#1 (direct spraying on insect) from the Meta SPC 6, only an application of $2.5\,\mathrm{g}$ of product is claimed (no application rate in $\mathrm{g/m^2}$ is available). This application rate corresponds to 1 second of spray. In a best case, two sprays of one second is considered to calculate the local emission.

The product of Meta-SPC 6 is an aerosol, therefore the respective cleaning efficiency is 0.2. It is considering as a best case as, according to the assay GENVPF5561 provided by the applicant (see the confidential annex), the aerosol can be considered similar to a spray. In fact, the applicant demonstrated that the diameter of the treated area was around 10 cm and the spray is described as regular, homogeneous, powerful and flowing. Therefore, according to the ESD PT18, the cleaning efficiency used should be 0.5 as for a spray application, as this type of aerosol does not allow a targeted application that would justify a

cleaning efficiency of only 0.2. As risks are already foreseen with a cleaning efficiency of 0.2, the assessment was kept with this best case value.

18

Input parameters for calculating	the local ellis	SIUII	1	T
	Val	ue		
Input	Meta SPC 6	Meta SPC 6	Unit	Remarks
	Use#1	Use#2		
Fraction of active substance in the commercial product (F_{AI})	0.0022	0.0022	[-]	Set value
Number of private houses connected to the same STP (N_{house})	4000		[-]	Default value
Total area applied with insecticide in a standard house (AREA _{treated})	ŀ	2	m ²	TAB ENV 144 (spot application)
Number of spray (equal to 1 second) per day	2	-	[-]	As an unrealistic best case
Quantity of commercial product applied per m² (Q _{prod})	-	0.0175	kg.m ⁻²	Set value
Quantity of commercial product applied by spray of 1 second	0.0025	-	kg	Set value
Number of applications per day (N_{appl})	1		d ⁻¹	Set value
Fraction emitted to air during application step (Fapplication,air)	0.0)2	[-]	Default value
Fraction emitted to applicator during application step (Fapplication,applicator)	0.0)2	[-]	Default value
Fraction emitted to floor during application step (Fapplication,floor)	0.1	0.11		Default value
Fraction emitted to treated surfaces during application step (F _{application,treated})	0.85		[-]	Default value
Simultaneity factor for indoor uses of insecticide in standard houses (F_{sim})	0.055162	0.008151	[-]	Use#1: Default value for daily use as no restriction is proposed in the SPC Use#2: Default value for 3-11 times a year considering a

Cleaning efficiency (F _{CE})	0.2	[-]	Default value for a RTU aerosol – surface (unrealistic best case*)
--	-----	-----	---

^{*} According to the assay GENVPF5561 (see the confidential annex) provided by the applicant, the aerosol can be considered similar to a spray.

Calculations for Scenario 2:

See details of the local wastewater emission equations in the 'Calculation for Scenario 1' section above.

Resulting local emission to relevant environmental compartments				
	Local emission (E	local _{water}) [kg/d]	Downsules	
Compartment	Use#1	Use#2	Remarks	
STP	5.15E-04	5.32E-04	-	

The local emission calculated for the use#1 is covered by the one calculated for the use#2 (5.32E-04 kg.d-1). The Elocalwater for use#2 will be used for the risk assessment as both emission values are considered equivalent.

Scenario 3: Indoor fogging application for an air space treatment (one-shot aerosol)

The scenario for the application by fogging with a one-shot aerosol for an air space treatment covers the following use #1 of Meta-SPC 3 with the following use description: One-shot aerosol insecticide against flying and crawling insects used in cellars, basements, crawl spaces, garages, boxes, attics, barns, sheds or any other premises which are not wetcleaned ...). As the product is applied by non-professionals, only domestic houses have been considered.

Local emission due to this application in premises was calculated using the ESD for PT18 Emission models for indoor treatments – application by spraying (incl. cleaning) for air space application, considering the wet cleaning of premises as a worst case.

The product of Meta-SPC 3 is a one-shot aerosol. No dilution and no loading are needed. Therefore, no emission occurs during the mixing/loading step. The applicator is not in the room for the application; there is no emission to the applicator during application.

Input parameters for calculating the local emission			
Input	Value	Unit	Remarks
Fraction of active substance in the commercial product (FAI)	0.0087	[-]	Set value
Number of private houses connected to the same STP (N _{house})	4000	[-]	Default value

Total volume applied with insecticide in a standard house (total volume treated) (VOLUME _{treated})	325	m³	Default value
Wet cleaning zone leading to releases to the STP (standard house) (AREA _{cleaned})	38.5	m²	Default value
Quantity of commercial product applied per m^3 (Q_{prod})	7.99E-04	kg.m ⁻³	According to the claimed application rate (corresponding to 1 mL/m³ with a product density of 0.799 kg/L)
Number of applications per day (N _{appl})	1	d ⁻¹	Set value
Fraction emitted to air during application step (F _{application,air})	0.02	[-]	Default value
Fraction emitted to applicator during application step (Fapplication, applicator)	0	[-]	Default value (one- shot aerosol)
Fraction emitted to floor during application step (F _{application,floor})	0.98	[-]	Default value considering an Fapplication,applicator = 0
Fraction emitted to treated surfaces during application step (Fapplication,treated)	0	[-]	Default value
Simultaneity factor for indoor uses of insecticide in standard houses (F_{sim})	0.008151	[-]	Default value for 3- 11 times a year considering a residual effect of 4 months
Cleaning efficiency (F _{CE})	1	[-]	Default value for a RTU aerosols - space spray/diffuser

Calculations for Scenario 3:

 $Elocal_{water} = N_{appl} * Q_{prod} * F_{AI} * VOLUME_{treated} * F_{application,floor} * F_{CE} * N_{house} * F_{sim} * (AREA_{cleaned}/130)$

Resulting local emission to relevant environmental compartments			
Compartment	Local emission (Elocal _{water}) [kg/d]	Remarks	

Scenario 4: Spray application in crawling space

The scenario for the spray application in crawling space covers the use#1 of Meta-SPC 4, and the use#2 of Meta-SPC 5 and Meta-SPC 7, flying and crawling insects - surface spray

under buildings, with the following use instructions: Spray the product under buildings (crawlspaces...)

Local emission due to spray application under building was calculated using ESD for PT18 Emission models for outdoor treatments – treatment of crawling insects by spray. According to the ESD for PT18, this scenario is relevant only in rural areas.

The products of Meta-SPC 4 and 7 are ready-to-use. No dilution and no loading are needed. Therefore, no emission occurs during the mixing/loading step for these Meta-SPCs. However, a dilution of 2% to 8% is to be taken into account for the preparation step of Meta-SPC 5. Therefore, an emission is calculated for the mixing/loading step for this Meta-SPC 5.

The Meta-SPC 5 with a dilution of 2% was used as the worst case for the environmental risk assessment of the Meta-SPC 7. In fact, considering the product density of 0.916 kg/L, the concentration in the pure solution of 108.7 g cypermethrin/L and the dilution of 2%, the application rate corresponds to 39.8 mg cypermethrin/ m^2 (i.e. 20 mL/ m^2) for Meta-SPC 5, when the application rate for the Meta-SPC 7 is slightly lower (i.e. 38.9 mg/ m^2). Therefore, the concentration of cypermethrin in Meta-SPC 5 with a dilution of 2% covers the concentration of cypermethrin in Meta-SPC 7. The same reasoning was made to cover the upper concentration limit of Meta SPC 4 by Meta SPC 5 (dil 2%) as explained by the table below.

	Meta-SPC 4 (upper concentrat ion limit)	Meta-SPC 4 (lower concentrat ion limit)	Meta-SPC 5 (Dilution 8%)	Meta-SPC 5 (Dilution 2%)	Meta-SPC 7	Unit
Fraction of active substance in the commercial product (F _{AI})	0.0087	0.0054	0.1087	0.1087	0.1087	[-]
Product density (D)	0.885	0.885	0.916	0.916	0.916	kg.L ⁻¹
Dilution (Dil)	n.r.	n.r.	8	2	n.r.	%
Application rate (final product)	20	20	20	20	20	mL/m²
Application rate (AI)	154	95.6	159.3	39.8	38.9	mg ai / m²
Conclusion	Convered by Meta SPC 5 (dil 8%)	To calculate	To calculate	To calculate	Covered by Meta SPC 5 (dil 2%)	

Input parameters for calculating the local emission					
Input	Meta-SPC 4 (lower concentration limit)	Value Meta-SPC 5 (Dilution 8%)	Meta-SPC 5 (Dilution 2%)	Unit	Remarks

Fraction of active substance					
Fraction of active substance in the commercial product (F_{AI})	0.0054	0.1087	0.1087	[-]	Set values
Product density (D)	0.885	0.916	0.916	kg.L ⁻¹	Set values
Dilution (Dil)	n.r.	8	2	%	Set values
Quantity of product used for one preparation event $(Q_{\text{prod},\text{prep}})$		4.21E+02	1.05E+02	g	Output – Considering an application rate of 20 mL diluted product/m2
Number of preparations per day (N_{prep})	n.r.	:	1	d ⁻¹	According to the intented use
Fraction emitted to soil during preparation step (F _{prep,soil})		4.00	E-03	[-]	Default value
Soil volum for the mixing loading step (V _{prep,soil})		0.4		m^3	Default value
Quantity of pure product applied (Q_{prod})	1.77E-02	1.47E-03	3.66E-04	kg.m ⁻²	According to the intented use (application rate of 20 mL diluted product/m2)
Area of walls and ceiling (crawling space) treated per day (AREA _{crawling})		156		m².d ⁻¹	Default value
Area of soil (crawling space) treated per day (AREA _{soil})		131		m².d ⁻¹	Default value
Fraction emitted to soil during crawling space spray application on walls and ceiling (F _{spray,wall-ceiling})	0.3		[-]	Default value	
Fraction emitted to soil during crawling space spray application on soil (F _{spray,soil})	1			[-]	Default value
Soil volume for deposition and application (V _{spray,treated_soil})		66		m ³ .d ⁻¹	Default value

Calculations for Scenario 4:

$$\begin{split} E_{prep} &= F_{AI} * Q_{prod,prep} * N_{prep} * F_{prep,soil} * 0.001 \\ Elocal_{soil} &= Q_{prod} * F_{AI} * (AREA_{crawling} * F_{spray,wall-ceiling} + AREA_{soil} * F_{spray,soil}) \end{split}$$

Resulting local emission to relevant environmental compartments					
Local emission [kg/d]	Meta SPC 4 (lower concentration limit)	Meta-SPC 5 (Dilution 8%)	Meta-SPC 5 (Dilution 2%)	Remarks	
Local emission to soil during preparation step (E _{prep})	n.r.	1.83E-04	4.57E-05	-	

Resulting local emission to relevant environmental compartments					
Local emission [kg/d]	Meta SPC 4 (lower concentration limit)	Meta-SPC 5 (Dilution 8%)	Meta-SPC 5 (Dilution 2%)	Remarks	
Local emission to soil due to application on crawling space (Elocal _{soil})	1.70E-02	2.83E-02	7.08E-03	-	

$$\begin{split} &C_{\text{prep,soil}} = E_{\text{prep}} * 10E6 / (\text{RHO}_{\text{soil}} * V_{\text{soil}}) \\ &C_{\text{soil}} = E_{\text{crawling,soil}} * 10E6 / (\text{RHO}_{\text{soil}} * V_{\text{soil}}) \end{split}$$

Resulting local concentration to relevant environmental compartments						
Local emission [mg.kg _{ww} -1] Meta SPC 4 (lower concentration limit) Meta-SPC 5 (Dilution 8%)				Remarks		
Local concentration of active substance in soil during mixing/loading (C _{prep,soil})	n.r.	2.69E-01	6.72E-02	-		
Concentration of active ingredient in soil (C _{soil})	1.51E-01	2.52E-01	6.31E-02	-		

Scenario 5: Outdoor spot application by spray in cracks and crevices (along windows and doors)

The scenario for the spray application in cracks and crevices (outdoor) covers the use#1 of Meta-SPC 5 and 7 and use#2 of Meta-SPC 6 with the following decription: Spray the product as target spots, into cracks and crevices where the insects pass (spots near the windows, around the doors, on the skirting boards...)

Local emission due to spray application in crack and crevices was calculated using ESD for PT18 Emission models for outdoor treatments – treatment around the building.

The uses of Meta SPC 5, 6 and 7 claims an application as spot in cracks and crevices only on very localised areas (like the frames of windows and doors). According to the ESD for PT18: "where specific data on the application pattern are available, the surface treated should be recalculated according to label or material technical data sheet (e.g. walls/soil treatment or soil only, different width of treated area, etc...)". Therefore, the treated area has been re-calculated to correspond to the actual claimed uses. Parameters from the "Outdoor-Window/ Door step scenario" for ants from TAB 2019 ENV A21 are used to calculate the area of windows and door's frames of houses. Thus, the surface treated for such application is 2 m² (considering a worst case spray width of 20 cm).

To cover all claimed doses, the concentration of cypermethrin in Meta SPC 5 was used as the worst case for the environmental risk assessment of the scenario 5. In fact, considering the product density of 0.916 kg/L, the concentration in the pure solution of 10.87 g

cypermethrin/L and the dilution of 2%, the application rate corresponds to 39.8 mg cypermethrin/m² (i.e. 20 mL/m²) for Meta-SPC 5, when the applications rates for the other Meta-SPC are slightly lower (i.e. 38.5 and 38.9 mg/m² for Meta-SPC 6 and 7 respectively). See the table below for more details.

	Meta-SPC 5 (Dilution 2%)	Meta-SPC 6	Meta-SPC 7	Unit
Fraction of active substance in the commercial product (FAI)	0.1087	0.0022	0.0022	[-]
Product density (D)	0.916	n.r.	0.885	kg.L ⁻¹
Dilution (Dil)	2	n.r.	n.r.	%
Application rate (final product)	20 mL/m²	17.5 g/m2	20 mL/m²	-
Application rate (AI)	39.8	38.5	38.9	mg ai / m²
Conclusion	To calculate	Covered by Meta SPC 5 (dil 2%)	Covered by Meta SPC 5 (dil 2%)	

A dilution of 2% max is to be taken into account for the preparation step for the Meta-SPC 5 only. No emission occurs during the mixing/loading step for products from Meta SPC 6 and 7 as they are RTU.

Input parameters for calculating the local emission					
Input	Value Meta SPC 5	Unit	Remarks		
Fraction of active substance in the commercial product (F _{AI})	0.1087	[-]	Set value		
Dilution	2	%	Set value		
Product density	0.916	kg.L ⁻¹	Set value		
Application rate (in-use product)	20	mL. m ⁻²	Set value		
Application rate (active substance)	3.98E-05	kg	Output		
Number of private houses connected to the same STP (Nhouse)	2500	[-]	Default value		
Bulk density of wet soil (RHO _{soil})	1700	kg _{ww} .m ⁻³	Default value		
Quantity of product used for one preparation event (Q _{prod,prep})	7.33E-01	g	Output (application rate of 20 mL diluted product/m2)		
Number of preparations per day (N_{prep})	1	d ⁻¹	According to the intented use		
Fraction emitted to soil during preparation step (F _{prep,soil})	4.00E-03	[-]	Default value (wort case)		
Soil volum for the mixing loading step $(V_{prep,soil})$	0.4	m³	Default value		
Quantity of product applied (Q _{prod})	3.66E-04	kg.m ⁻²	Set value		

Area treated per day (AREA _{wall,house})	2	m².d ⁻¹	See details above - TAB 2019 ENV A21
Soil volume around building (V _{spray,soil})	13	m².d ⁻¹	Default value
Fraction emitted to soil during outdoor spray application on crack&crevives (F _{spray})	0.2	[-]	Default value initially defined for bait station and used as the product is placed in cracks and crevices (i.e. partly protected from weathering)
Simultaneity factor for outdoor uses of insecticide (F_{sim})	0.008151	[-]	Default value for 3-11 times a year considering a residual effect of 4 months

Calculations for Scenario 5:

```
\begin{split} & \mathsf{E}_{\mathsf{prep}\;\mathsf{soil}} = \mathsf{F}_{\mathsf{AI}}\; ^*\mathsf{Q}_{\mathsf{prod},\mathsf{prep}} *\; \mathsf{N}_{\mathsf{prep}} *\; \mathsf{F}_{\mathsf{prep},\mathsf{soil}} *\; 0.001 \\ & \mathsf{E}_{\mathsf{prep},\;\mathsf{wastewater}} = \mathsf{E}_{\mathsf{prep}\;\mathsf{soil}} *\; \mathsf{N}_{\mathsf{house}} *\; \mathsf{F}_{\mathsf{sim}} \\ & \mathsf{Elocal}_{\mathsf{soil}} = \mathsf{Q}_{\mathsf{prod}} *\; \mathsf{F}_{\mathsf{AI}} *\; \mathsf{AREA}_{\mathsf{wall},\mathsf{house}} *\; \mathsf{F}_{\mathsf{spray}} \\ & \mathsf{Elocal}_{\mathsf{wastewater}} = \mathsf{Q}_{\mathsf{prod}} *\; \mathsf{F}_{\mathsf{AI}} *\; \mathsf{AREA}_{\mathsf{wall},\mathsf{house}} *\; \mathsf{F}_{\mathsf{spray}} *\; \mathsf{N}_{\mathsf{house}} *\; \mathsf{F}_{\mathsf{sim}} \end{split}
```

Resulting local emission to relevant environmental compartments				
Local emission [kg/d]	Meta SPC 5	Remarks		
Emission to soil during preparation step $(E_{prep\ soil})$	3.19E-07	-		
Local emission to soil due to application (Elocal _{soil})	1.59E-05	-		
Local emission to wastewater during preparation step (Elocal _{wastewater})	3.19E-07	-		
Local emission to wastewater during application step (Elocal _{wastewater})	3.31E-04	-		

$$\begin{split} &C_{prep,soil} = E_{prep} * 10E6 / (RHO_{soil} * V_{soil}) \\ &C_{soil} = Elocal_{soil} * 10E6 / (RHO_{soil} * V_{soil}) \end{split}$$

Resulting local concentration to relevant environmental compartments				
Local concentration [mg.kg _{ww} -1]	Meta SPC 5	Remarks		
Local concentration of active substance in soil during mixing/loading (Cprep,soil)	4.69E-04	-		
Local concentration of active substance in soil (C _{soil})	7.21E-04	-		

Scenario 6: Direct spray on insects outdoor - application on bare soil

The local emission of spray application on bare soil was calculated in case of treatment for crawling/flying insects (direct spray on insects) when the spray application is close to the

soil. The scenario spot application on bare soil (outdoor) covers the use#1 of Meta-SPC 1, 2 and 6.

Only the local emission for Meta SPC 2 and 6 was calculated. In fact, as risks are already foreseen for the Meta-SPC 2 with an application rate of 21.8 mg of cypermethrin, risks are also expected with a higher application rate (i.e. 94.5 mg of cypermethrin in Meta-SPC 1).

	Meta-SPC 1	Meta-SPC 2	Meta-SPC 6	Unit
Fraction of active substance in the commercial product (FAI)	0.0054	0.0087	0.0022	[-]
Dilution (Dil)	n.r.	n.r.	n.r.	%
Application rate (final product)	17.5	2.5	2.5	g
Application rate (AI)	94.5	21.75	5.5	mg ai
Conclusion	Cover by Meta- SPC 2 as a best case	To calculate	To calculate	

Input parameters for calculating the local emission										
Input	Value Value Meta SPC 2 Meta SPC 6		Unit	Remarks						
Fraction of active substance in the commercial product (FAI)	0.0087 0.0022		0.0087 0.0022		0.0087 0.0022		0.0087 0.0022		[-]	Set values
Quantity of commercial product per application (Q _{prod})	2.50E-03 2.50E-03		kg	Set values						
Number of application	:	L	[-]	Set values						
Fraction emitted to soil during outdoor spray application (F _{spray,soil})	1		[-]	Default value – ESD PT18						
Volume of soil exposed (V _{soil})	0.125		m³	Default value						
Bulk density of wet soil (RHO _{soil})	17	00	kg _{ww} .m ⁻³	Default value						

Calculations for Scenario 6:

 $\mathsf{Elocal}_{\mathsf{soil}} = \mathsf{Q}_{\mathsf{prod}} * \mathsf{N}_{\mathsf{appl}} * \mathsf{F}_{\mathsf{AI}} * \mathsf{F}_{\mathsf{spray},\mathsf{soil}}$

Resulting local emission to relevant environmental compartments						
Local emission [kg] Meta SPC 2 Meta SPC 6 Remarks						
Local emission to soil due to application I (Elocal _{soil})	2.18E-05	5.50E-06	-			

 $C_{soil} = Elocal_{water} * 10E6 / (RHO_{soil} * V_{soil})$

FR CA

Resulting local concentration to relevant environmental compartments					
Local concentration [mg.kgww ⁻¹] Meta SPC 2 Meta SPC 6 Remarks					
Local concentration of active substance in soil (C _{soil})	1.02E-01	2.59E-02	-		

Scenario 7: Direct spraying on insects outdoor – application on impermeable ground

The local emission of spray application (direct on insects) on impermeable ground was calculated in case of treatment for crawling insects on terrace and an application close to the terrace floor for the treatment of flying insects. This scenario covers the use#1 of Meta-SPC 1, 2 and 6.

The terrace scenario for spot application was adaptated for a spray application directly on insects. Therefore, four applications on the floor of the terrace are considered as the four default bait stations used on a terrace (EDS PT18 section 4.3.4).

According to the Technical Agreement of Biocide (TAB) entry 159, for spot applications, 'no release to sewer/STP is assumed, only releases to soil compartment around a terrace'.

To cover all claimed doses, the application rate of cypermethrin in Meta SPC 1 (17.5 g/spray at 0.54 %w/w) was used as the worst case for the environmental risk assessment of the scenario 7. Please refer to the table below.

	Meta-SPC 1	Meta-SPC 2	Meta-SPC 6	Unit
Fraction of active substance in the commercial product (F _{AI})	0.0054	0.0087	0.0022	[-]
Dilution (Dil)	n.r.	n.r.	n.r.	%
Application rate (final product)	17.5	2.5	2.5	g
Application rate (AI)	94.5	21.75	5.5	mg ai / spot
Conclusion	To calculate	Covered by Meta SPC 1	Covered by Meta SPC 1	

Input parameters for calculating the local emission					
Input	Value Meta SPC 1	Unit	Remarks		
Fraction of active substance in the commercial product (F _{AI})	0.0054	[-]	Set value		
Quantity of commercial product applied per spot (Q_{prod})	1.75E-02	kg	Set value		

Number of application/spot (N _{appl})	4	[-]	Default value
Fraction emitted to soil during outdoor spray application (F _{spot,soil})	0.9	[-]	Default value
Soil volume around terrace (V _{soil})	4.25	m³	TAB ENV153
Bulk density of wet soil (RHO _{soil})	1700	kg _{ww} .m ⁻³	Default value

Calculations for Scenario 7:

 $\mathsf{Elocal}_{\mathsf{soil}} = \mathsf{Q}_{\mathsf{prod}} * \mathsf{F}_{\mathsf{AI}} * \mathsf{F}_{\mathsf{spray},\mathsf{soil}} * \mathsf{N}_{\mathsf{appl}}$

Resulting local emission to relevant environmental compartments						
Local emission [kg] Meta SPC 1 Remarks						
Local emission due to application on soil (Elocal _{soil}) 3.40E-04						

 $C_{soil} = Elocal_{soil} * 10E6 / (RHO_{soil} * V_{soil})$

Resulting local concentration to relevant environmental compartments					
Local concentration [mg.kgww ⁻¹] Meta SPC 1 Remarks					
Local concentration of active substance in soil (C_{soil})	4.71E-02	-			

Fate and distribution in exposed environmental compartments

Identi	Identification of relevant receiving compartments based on the exposure pathway								
	Fresh- water	Freshwater sediment	Sea- water	Seawater sediment	STP	Air	Soil	Ground- water	Other
Scenario 1	Yes	Yes	No	No	Yes	No	Yes	Yes	n.r.
Scenario 2	Yes	Yes	No	No	Yes	No	Yes	Yes	n.r.
Scenario 3	Yes	Yes	No	No	Yes	No	Yes	Yes	n.r.
Scenario 4	No	No	No	No	No	No	Yes	No*	n.r.
Scenario 5	Yes	Yes	No	No	Yes	No	Yes	Yes	n.r.
Scenario 6	No	No	No	No	No	No	Yes	No	n.r.
Scenario 7	No	No	No	No	No	No	Yes	No	n.r.

^{*} TAB ENV157

Input parameters (only set value	es) for calculatin	g the fate and distrib	ution in the
Input	Value	Unit	Remarks
Molecular weight	416.3	g/mol	
Vapour pressure (at 25°C)	6.00E-07	Pa	
Water solubility (at 20°C)	4.00E-03	mg/l	
Log Octanol/water partition coefficient	5.45	Log 10	
Organic carbon/water partition coefficient (Koc)	575000	l/kg	
Henry's Law Constant (at 20°C)	0.024	Pa/m3/mol	
Biodegradability	Not readily biodegradable	-	
DT ₅₀ for degradation in soil	17.2	d (at 12°C)	
k volat (arable land)	3.10E-07	d ⁻¹	
k leach (arable land)	1.39E-07	d ⁻¹	
k total (arable land)	4.03E-02	d ⁻¹	
BCF fish	417	L/kg _{wwt} , measured	
BCF earthworm	3383	L/kg _{wwt} , calculated	
BMF fish	1	[-]	

Calculated fate and distribution in the STP (SimpleTreat 4.0)					
Compartment	Percentage [%]	Remarks			
Air 6.74E-04		-			
Water	8.356	-			
Sludge	91.65	-			
Degraded in STP	0	-			

Calculated PEC values

Indirect releases to the STP

Summary table on calculated PEC values							
Elocal _{water} PEC _{STP} PEC _{water} PEC _{sed} PEC _{soil} PE							
	[kg/d]	[mg/l]	[mg/l]	[mg/kg _{wwt}]	[mg/kg]	[µg/l]	
Scenario 1 – indoor spot cracks and crevices (windows and doors)	6.53E-04	2.73E-05	1.46E-06	1.83E-02	6.46E-04	1.51E-05	

Scenario 2 – indoor spot surface	5.32E-04	2.22E-05	1.19E-06	1.49E-02	5.27E-04	1.23E-05
Scenario 3 – indoor air space treatment	2.14E-02	8.93E-04	4.80E-05	5.99E-01	2.12E-02	4.95E-04
Scenario 4 – crawling space	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Scenario 5 – outdoor spot cracks and crevices (windows and door) - Preparation	3.19E-07	1.33E-08	7.15E-10	8.93E-06	3.15E-07	7.38E-09
Scenario 5 – outdoor spot cracks and crevices (windows and door)	3.31E-04	1.38E-05	7.43E-07	9.29E-03	3.28E-04	7.67E-06
Scenario 6 – outdoor spot direct on insect (bare soil)	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Scenario 7 - outdoor spot direct on insect (terrace)	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.

Direct releases to soil

Summary table on calculated local concentration in soil and groundwater				
		$C_{prep,soil}$	C _{appli,soil}	PEC _{GW}
		[mg.kg _{ww} ⁻¹]	[mg.kg _{ww} -1]	[µg/l]
Scenario 1 –indoor spot cracks and crevices (windows and doors)		n.r.	n.r.	n.r.
Scenario 2 – indoor spot direct on insects		n.r.	n.r.	n.r.
Scenario 3 – indoor air space treatment		n.r.	n.r.	n.r.
	Meta SPC 4 (lower concentration limit)	n.r.	1.51E-01	n.r.
Scenario 4 – under building	Meta SPC 5 with 8% dilution	2.69E-01	2.52E-01	2.65E-02*
	Meta SPC 5 with 2% dilution	6.72E-02	6.31E-02	6.63E-03*
Scenario 5 – outdoor spot cracks and crevices (windows and door)	Meta SPC 5	4.69E-04	7.21E-04	7.11E-05**
	Meta SPC 2	n.r.	1.02E-01	1.01E-02

Scenario 6 – outdoor spot direct on insect (bare soil)	Meta SPC 6	n.r.	2.59E-02	2.55E-03
Scenario 7 - outdoor spot direct on insect (terrace)	Meta SPC 1	n.r.	4.71E-02	4.64E-03

Primary and secondary poisoning

Primary poisoning

Primary poisoning, *i.e.* the direct consumption of insecticide by birds or mammals is relevant only for outdoor uses. However, the biocidal product family CHIMIGET_CYPER is used as spray outdoor. The products are not in the form of bait or granules. Therefore, primary poisoning is not considered as relevant for this family of products.

Secondary poisoning

As cypermethrin has a log $K_{ow} > 3$ (log $K_{ow} = 5.45$ at 25°C) and a BCF > 100 (BCF in fish = 417 L/kg and BCF in earthworm = 3380 L/kg), secondary poisoning may occur via the aquatic food chain and via the terrestrial food chain.

The concentrations were calculated according to the biocidal guidance Vol IV Part B+C.

Indirect releases via the STP

Summary table on estimated theoretical exposition				
	Concentration in fish	Concentration in earthworm		
	[mg/kg]	[mg/kg]		
Scenario 1 -indoor spot cracks and crevices (windows and door)	3.05E-04	3.08E-05		
Scenario 2 – indoor spot direct on insects	2.49E-04	2.51E-05		
Scenario 3 – indoor air space treatment	1.00E-02	1.01E-03		
Scenario 4 – under building	n.r.	n.r.		
Scenario 5 – outdoor spot cracks and crevices (windows and door) - Preparation	1.49E-07	1.50E-08		
Scenario 5 – outdoor spot cracks and crevices (windows and door) - Application	1.55E-04	1.56E-05		

^{*} for the preparation step only as the continamination of gounwater is not relevant for crawling spaces

^{**} for the application step as a worst case

Scenario 6 – outdoor		
spot direct on insect	n.r.	n.r.
(bare soil)		
Scenario 7 - outdoor		
spot direct on insect	n.r.	n.r.
(terrace)		

Direct releases

For the direct releases to soil, only the worst case concentration is presented for calculation.

Summary table on estimated theoretical exposition			
	Concentration in soil	Concentration in earthworm	
	[mg/kg wwt]	[mg/kg]	
Scenario 4 – Crawling space – Preparation step for Meta SPC 5 with 8% dilution	2.69E-01	5.40E-02	

2.2.8.3 Risk characterisation

Atmosphere

<u>Conclusion</u>: Due to the low volatility of cypermethrin (vapour pressure equal to 2.3E-07 Pa at 20°C), the risk of contamination of the atmosphere can be considered as negligible and this foreseeable route of entry in the environment is not of concern.

Sewage treatment plant (STP)

Summary table on calculated PEC/PNEC values			
	PEC/PNEC _{STP}		
Scenario 1 –indoor spot cracks and crevices (windows and door)	1.67E-05		
Scenario 2 – indoor spot direct on insects	1.36E-05		
Scenario 3 – indoor air space treatment	5.48E-04		
Scenario 4 – under building	n.r.		
Scenario 5 – outdoor spot cracks and crevices (windows and door) - Preparation	8.17E-09		

Scenario 5 – outdoor spot cracks and crevices (windows and door) - Application	8.49E-06
Scenario 6 – outdoor spot direct on insect (bare soil)	n.r.
Scenario 7 - outdoor spot direct on insect (terrace)	n.r.

<u>Conclusion</u>: The PEC/PNEC ratios are below the trigger value of 1 for all the relevant scenarios. Then, risk for STP microorganisms is acceptable for the intended uses of the products CHIMIGET_CYPER.

Aquatic compartment

Summary table on calculated PEC/PNEC values			
	PEC/PNEC _{water}	PEC/PNEC _{sed}	
Scenario 1 –indoor spot cracks and crevices (windows and door)	3.66E-01	3.66E+00	
Scenario 2 – indoor spot direct on insects	2.89E-01	2.89E+00	
Scenario 3 – indoor air space treatment	1.20E+01	1.20E+02	
Scenario 4 – under building	n.r.	n.r.	
Scenario 5 – outdoor spot cracks and crevices (windows and door) - Preparation	1.79E-04	1.79E-03	
Scenario 5 – outdoor spot cracks and crevices (windows and door) - Application	1.86E-01	1.86E+00	
Scenario 6 – outdoor spot direct on insect (bare soil)	n.r.	n.r.	
Scenario 7 - outdoor spot direct on insect (terrace)	n.r.	n.r.	

n.r.: not relevant

<u>Conclusion</u>: The PEC/PNEC ratios are above the trigger value of 1 for the aquatic compartment (sediment and/or surface water) for the all the relevant scenarios (except for the preparation step of scenario 5). Therefore, these proposed uses of the products CHIMIGET_CYPER do pose a risk to aquatic compartment when the releases are directed to the STP.

Risk mitigation measures to totally prevent any release to the STP can be proposed for some uses:

For the indoor use "air space treatment with a one-shot aerosol" of Meta-SPC 3 covered by scenario 3, as the product is intended to be applied in non wet cleaned areas:

- The product is only for indoor use and to be strictly applied in non wetcleaned premises (cellars, basements, crawl spaces, garages, attics, barns, sheds)
- Do not use where the biocidal product is likely to be discharged to a wastewater treatment plant and/or surface water.
- Dry clean (broom or vacuum cleaner) treated area and dispose of residues to hazardous solid waste in order to prevent releases to water.

For the outdoor uses "application as spot in cracks and crevices only on very localised areas (windows and doors)" (Meta SPC 5, Meta-SPC 6 and 7) covered by scenario 5:

 Apply outdoor only on hard surface under a roof, on areas that are not liable to submersion or becoming wet, i.e. protected from rain, floods and cleaning water.

Note that the applicant also recommends a surface application which is not covered by the proposed scenario 5 (conducted for cracks and crevices applications). Nevertheless, as the application in cracks and crevices already leads to unacceptable risks, the assessment was deemed sufficient.

However, the expected dilution of 2% for this use of Meta-SPC 5 is not feasible for a non-professionnel and therefore this use cannot be authorised for Meta-SPC 5. In fact, a dilution of 2% would require to measure 0.8 ml to dilute the product (considering the targeted application restricted to small surfaces of around 2m²) and no device is provided to measure such a quantity.

For the indoor uses "application as spot in crack and crevices" and "direct application on insects" of Meta SPC 6 covered by scenario 1 and 2, no risk mitigation measure is feasible to lead to acceptable risks when releases are directed to the STP and these uses cannot be authorised indoor.

Terrestrial compartment

c	alculated PEC/PNE	C values
	PEC/PNEC _{soil}	PEC/PNEC _{soil} (Direct emission)

	Meta-SPC specific	(Indirect emission via the STP)	Preparation step	Application step
Scenario 1 – indoor spot cracks and crevices (windows and door)	1	9.23E-03	n.r.	n.r.
Scenario 2 – indoor spot direct on insects	-	7.53E-03	n.r.	n.r.
Scenario 3 – indoor air space treatment	1	3.02E-01	n.r.	n.r.
	Meta SPC 4	n.r.	n.r.	2.16E+00
Scenario 4 – under building	Meta SPC 5 Dil. 8%	n.r.	3.84E+00	3.61E+00
Julianing	Meta SPC 5 Dil. 2%	n.r.	9.61E-01	9.02E-01
Scenario 5 – outdoor spot cracks and crevices (windows and door)	1	4.60E-03	6.69E-03	1.03E-02
Scenario 6 – outdoor spot direct	Meta SPC 2	n.r.	n.r.	1.46E+00
on insect (bare soil)	Meta SPC 6	n.r.	n.r.	3.70E-01
Scenario 7 - outdoor spot direct on insect (terrace)	-	n.r.	n.r.	6.73E-01

Conclusion:

Releases via the STP:

The PEC/PNEC ratios are below the trigger value of 1 when releases are directed to the STP.

Direct releases to soil:

For the use "Spray application under building" covered by scenario 4,

- unacceptable risks are foreseen for:
 - Meta-SPC 5 with a dilution of 8% regarding preparation of the product and its use. The assessment for this dilution of Meta-SPC 5 covers the use of the upper range limit of Meta-SPC 4 (0.87% w/w cypermethrin).
 - To consider the lower range limit (0.54 % w/w) of Meta-SPC 4, for which the risk ratios have been calculated, does not change the conclusions of nonacceptable risks for this Meta-SPC.

acceptable risks are reached only for Meta-SPC 5 (dilution of 2%, application and use) and Meta-SPC 7, covered by calculations with Meta-SPC 5 (dil. 2%).

In conclusion, the outdoor application by spray under buildings cannot be proposed for authorisation for Meta-SPC 4 and Meta-SPC 5 (dilution of 8%).

For the outdoor use as spot application in cracks and crevices (windows and door) covered by scenario 5, acceptable risks are foreseen for all the proposed Meta-SPC (5, 6 and 7). Note that the applicant also recommends a surface application which is not covered by the proposed scenario 5 (in cracks and crevices). Nevertheless, as the application in cracks and crevices already leads to unacceptable risks for the STP and a RMM is proposed to prevent any releases to the environment, the assessment was deemed sufficient. It is also worthnoting that in considering a emission fraction of 0.9 instead of 0.2 would lead to the same conclusions for the terrestrial compartment.

For the outdoor use as a direct spray on insects (bare soil application) covered by scenario 6,

- unacceptable risks are foreseen for Meta-SPC 2 covering Meta-SPC-1.
- risks are considered acceptable for Meta-SPC 6.

A risk mitigation measure is proposed to prevent emission to the terrestrial compartment for the Meta SPC 1 and 2:

- Do not use on bare soil.

For the outdoor use as a direct spray on insects (on impermeable surface) covered by scenario 7, acceptable risks are foreseen for all the proposed Meta-SPC (1, 2 and 6).

Groundwater

	PEClocalgroundwater (μg/l)		
	Indirect releases via the STP	Direct releases to soil	
Scenario 1 –indoor spot cracks and crevices (windows and door)	1.51E-05	n.r.	
Scenario 2 – indoor spot direct on insects	1.23E-05	n.r.	
Scenario 3 – indoor air space treatment	4.95E-04	n.r.	
Scenario 4 – under building	n.r.	2.65E-02*	
Scenario 5 – outdoor spot cracks and crevices (windows and door)	7.67E-06	7.11E-05**	

Scenario 6 – outdoor spot direct on insect (bare soil)	n.r.	1.01E-02 (Meta-SPC 2) 2.55E-03 (Meta-SPC 6)		
Scenario 7 - outdoor spot direct on insect (terrace)	n.r.	4.64E-03 (Meta-SPC 1)		

^{*} for the preparation step only (dilution 8% as a worst case) as the continamination of gounwater is not relevant for crawling spaces

<u>Conclusion</u>: The calculated value for groundwater contamination doesn't exceed the limit value of 0.1 μ g.L⁻¹ for biocides (Directives 2006/118/EC and 98/83/EC). Therefore, risks are acceptable for groundwater for all the proposed uses.

Primary and secondary poisoning

Primary poisoning

Primary poisoning is not considered as relevant for the biocidal product family CHIMIGET_CYPER.

Secondary poisoning

As cypermethrin has a log $K_{ow} > 3$ (log $K_{ow} = 5.45$ at 25°C) and a BCF > 100 (BCF in fish = 417 L/kg and BCF in earthworm = 3380 L/kg), secondary poisoning may occur via the aquatic food chain and via the terrestrial food chain.

The PNEC_{oral mammal} is lower to the PNEC_{oral bird}, therefore the ratios PEC/PNEC_{mammals} cover the ratios PEC/PNEC_{birds}.

Indirect releases via the STP

Summary table on secondary poisoning							
	Aquatic food chain	Terrestrial food chain					
	PEC/PNEC _{mammals}	PEC/PNEC _{mammals}					
Scenario 1 –indoor spot cracks and crevices (windows and door)	9.25E-05	9.33E-06					
Scenario 2 – indoor spot direct on insects	7.54E-05	7.60E-06					
Scenario 3 – indoor air space treatment	3.03E-03	3.05E-04					
Scenario 4 – under building	n.r.	1.64E-02					
Scenario 5 – outdoor spot cracks and crevices (windows and door)	4.69E-05	4.73E-06					

^{**} for the application step as a worst case

Scenario 6 – outdoor spot direct on insect (bare soil)	n.r.	n.r.
Scenario 7 - outdoor spot direct on insect (terrace)	n.r.	n.r.

Direct releases to soil

Summary table on secondary poisoning						
	Aquatic food chain	Terrestrial food chain				
	PEC/PNEC _{mammals}	PEC/PNEC _{mammals}				
Scenario 4 – under building	n.r.	1.64E-02				

<u>Conclusion</u>: The PEC/PNEC ratios are below the trigger value of 1. Then, risks for birds and mammals following secondary poisoning are acceptable when using the products CHIMIGET_CYPER according to label recommendations.

Mixture toxicity

The product contains only one active substance and no environmentally relevant substances of concern. Therefore, a mixture assessment is not necessary.

Aggregated exposure (combined for relevant emmission sources)

According to the decision scheme developed by UBA (see Figure 1), an assessment of aggregated exposure is relevant for releases via the STP. Nevertheless, as no use with releases to the STP are proposed for authorisation, the aggregated exposure is not presented.

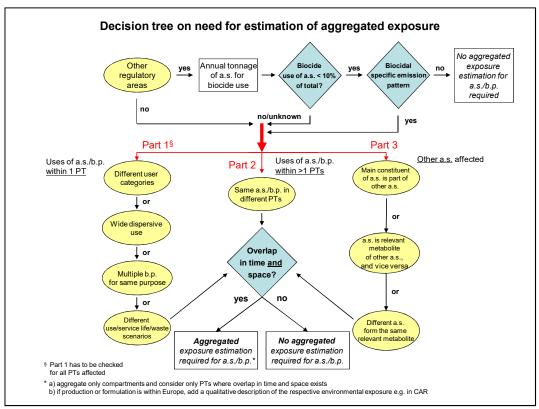


Figure 1: Decision tree on the need for estimation of aggregated exposure

Overall conclusion on the risk assessment for the environment of the product

The risk assessment has been conducted for the active substance only. No substance of concern has been identified for the environment.

The conclusions of the risk assessment is presented in the table below:

Meta- SPC	Use	Indoor/ Outdoor	Conclusion	RMM/remarks
Meta SPC 1	Use#1 - AE WH - wasps and hornets aerosol - Direct spraying on insects	Outdoor	Acceptable with RMM	Proposed RMM: Do not use on bare soil
Meta SPC 2	Use#1 - AE FC - flying and crawling insects - Direct spraying on insects	Outdoor	Acceptable with RMM	Proposed RMM: Do not use on bare soil
Meta SPC 3	Use # 1 – OS – flying and crawling insects -	Indoor	Acceptable with RMM (leading to	Proposed RMMs:

	space treatment with a one-shot aerosol		no release to the environment)	- The product is only for indoor use and to be
				strictly applied in non wet-cleaned premises (cellars, basements, crawl spaces, garages, attics, barns, sheds)
				- Do not use where the biocidal product is likely to be discharged to a wastewater treatment plant and/or surface water.
				- Dry clean (broom or vacuum cleaner) treated area and dispose of residues to hazardous solid waste in order to prevent releases to water.
Meta SPC 4	Use # 1 - RTU - flying and crawling insects - under buildings	Outdoor	Not acceptable	Unacceptable risks for the terrestrial compartment
Meta SPC 5	Use # 1 – EC – flying and crawling insects - Target surface spraying as spots application or in cracks and crevices (Dil 2%)	Outdoor	Not acceptable	A dilution of 2% would require to measure 0.8 ml to dilute the product (considering the targeted application restricted to small surfaces of around 2m²) and no device is provided to measure such a quantity. Therefore, it is not feasible for a non-professionnel.
	Use # 2 - EC - flying and crawling insects surface spray - under buildings		Not acceptable with dilution of 8% Acceptable with dilution of 2%	Unacceptable risks for the terrestrial compartment with a dilution of 8%
Meta SPC 6	Use # 1 - AE FC1 - flying and crawling	Indoor	Not acceptable	Unacceptable risks for the aquatic compartment
Jr C U	insects - direct spraying on insects	Outdoor	Acceptable	-

		Indoor	Not acceptable	Unacceptable risks for the aquatic compartment
	Use # 2 – AE FC1 – flying and crawling insects - Target surface spraying as spots application or in cracks and crevices	Outdoor	Acceptable with RMM	Proposed RMM: Apply outdoor only on hard surface under a roof, on areas that are not liable to submersion or becoming wet, i.e. protected from rain, floods and cleaning water.
Meta SPC 7	Use # 1 – RTU1 – flying and crawling insects - Target surface spraying as spots application or in cracks and crevices	Outdoor	Acceptable with RMM	Proposed RMM: Apply outdoor only on hard surface under a roof, on areas that are not liable to submersion or becoming wet, i.e. protected from rain, floods and cleaning water.
	Use # 2 - RTU1 - flying and crawling insects - under buildings	Outdoor	Acceptable	-

2.2.9 Measures to protect man, animals and the environment

Please refer to summary of the product assessment and to the relevant sections of the assessment report.

2.2.10 Assessment of a combination of biocidal products

For biocidal products that are intended to be authorised for the use with other biocidal products.

3 ANNEXES

3.1 List of studies for the biocidal product family

Author(s)	Year	Title Reference type Report and/or Study No. Source or Testing facility, if different from Sponsor	Study sponsor	IUCLID section (endpoint)	IUCLID document name	GLP	Data protection claimed
Halbwachs P.	2020	Physico-chemical tests and analyses before and after an accelerated storage procedure for 8 weeks at 40 ± 2°C on the product AEROSOL VOLANTS/RAMPANTS In compliance with CIPAC Handbook J - MT 46.3 method (2000) Study report Report No.: 20-903071-003 (Brindas, France)	CHIMIGET	3.1 Appearance (at 20°C and 101.3 kPa) (appearance / physical state / colour) 3.4.1 Storage stability tests (storage stability and reactivity towards container material)	FC 1 (AÉROSOL VOLANTS/RAMPA NTS): Appearance (at 20°C and 101.3 kPa) before and after accelerated storage_updated October 2020 3.4.1.1.1. Product AE FC 1 (AÉROSOL VOLANTS/RAMPA	QA statement)	yes
				3.5 Technical characteristics of the biocidal product (particle size distribution, content of dust/fines,	3.5.6.1. Product AE FC 1 (AÉROSOL VOLANTS/RAMPA NTS): Spray droplet size distribution_updat	QA statement)	yes

				and the second s	ad 1lv. 2024		
				attrition, friability)	ed July 2021		
				3.5 Technical characteristics of the biocidal product (spraying pattern - aerosols)	3.5.12.1. Product AE FC 1 (AÉROSOL VOLANTS/RAMPA NTS): Satisfactory operation of the sprayer and the spray volume, the spray diameter and pattern before and after accelerated storage_updated July 2021	QA statement	yes
Halbwachs P.	2020	Physico-chemical tests and analyses before and after an accelerated storage procedure for 8 weeks at 40 ± 2°C on the product ONE-SHOT AUTO PERCUTANT In compliance with CIPAC Handbook J - MT 46.3 method (2000) Study report Report No.: 20-903071-008	CHIMIGET	3.1 Appearance (at 20°C and 101.3 kPa) (appearance / physical state / colour)	3.1.2. Product OS 1 (ONE-SHOT AUTO PERCUTANT): Appearance (at 20°C and 101.3 kPa) before and after accelerated storage_updated October 2020	yes (incl. QA statement)	yes
		(Brindas, France)		3.4.1 Storage stability tests (storage stability and reactivity towards container material)	3.4.1.1.2. Product OS 1 (ONE-SHOT AUTO PERCUTANT): Accelerated storage test (8 weeks at 40 ± 2°C)_updated October 2020	yes (incl. QA statement)	yes
				3.5 Technical	3.5.6.2. Product	yes (incl.	yes

				characteristics of the biocidal product (particle size distribution, content of dust/fines, attrition, friability)	OS 1 (ONE-SHOT AUTO PERCUTANT): Spray droplet size distribution_updat ed October 2020	QA statement)	
				3.5 Technical characteristics of the biocidal product (spraying pattern - aerosols)	3.5.12.3. Product OS 1 (ONE-SHOT AUTO PERCUTANT): Satisfactory operation of the sprayer and the spray volume, the spray diameter and pattern before and after accelerated storage_updated October 2020	yes (incl. QA statement)	yes
Halbwachs P.	2021	Physico-chemical tests and analyses before and after an accelerated storage procedure for 8 weeks at 40 ± 2°C on the product LIQUIDE PAE In compliance with CIPAC Handbook J - MT 46.3 method (2000) Study report Report No.: 20-903071-026	CHIMIGET	3.1 Appearance (at 20°C and 101.3 kPa) (appearance / physical state / colour)	3.1.3. Product RTU 1 (LIQUIDE PAE): Appearance (at 20°C and 101.3 kPa) before and after accelerated storage_updated July 2021	yes (incl. QA statement)	yes
		(Brindas, France)		3.4.1 Storage stability tests (storage stability and reactivity towards container material)	3.4.1.1.3. Product RTU 1 (LIQUIDE PAE): Accelerated storage test (8 weeks at 40 ± 2°C)_updated	yes (incl. QA statement)	yes

			3.5 Technical characteristics of the biocidal product (particle size distribution, content of	July 2021 3.5.6.3. Product RTU 1 (LIQUIDE PAE): Spray droplet size distribution_updat ed July 2021	yes (incl. QA statement)	yes
			dust/fines, attrition, friability) 3.5 Technical	3.5.12.5. Product	yes (incl.	yes
			characteristics of the biocidal product (spraying pattern - aerosols)	RTU 1 (LIQUIDE	QA `	yes
Halbwachs P.	Physico-chemical tests and analyses before and after an accelerated storage procedure for 8 weeks at 40 ± 2°C on the product LIQUIDE CONCENTRÉ In compliance with CIPAC Handbook J - MT 46.3 method (2000) Study report Report No.: 20-903071-018 Brindas, France)	before and after an accelerated storage procedure for 8 weeks at 40 ± 2°C on the product LIQUIDE CONCENTRÉ In compliance with CIPAC Handbook J - MT 46.3 method (2000) Study report	3.1 Appearance (at 20°C and 101.3 kPa) (appearance / physical state / colour)	3.1.4. Product EC (LIQUIDE CONCENTRÉ): Appearance (at 20°C and 101.3 kPa) before and after accelerated storage_updated October 2020	yes (incl. QA statement)	yes
		3.2 Acidity, alkalinity (pH)	3.2.1. Product EC (LIQUIDE CONCENTRÉ): pH value (at 20°C and 101.3 kPa) before and after accelerated	yes (incl. QA statement)	yes	

				3.4.1 Storage stability tests (storage stability and reactivity towards container material)	storage_updated October 2020 3.4.1.1.4. Product EC (LIQUIDE CONCENTRÉ): Accelerated storage test (8 weeks at 40 ± 2°C)_updated October 2020	yes (incl. QA statement)	yes
				3.5 Technical characteristics of the biocidal product (persistent of foaming)	3.5.7.1. Product EC (LIQUIDE CONCENTRÉ): Persistent foaming before and after accelerated storage_updated October 2020	yes (incl. QA statement)	yes
				3.7 Degree of dissolution and dilution stability (dilution stability)	3.7.1. Product EC (LIQUIDE CONCENTRÉ): Dilution stability before and after the accelerated storage	yes (incl. QA statement)	yes
Halbwachs P.	2020	Physico-chemical tests on the product AÉROSOL VOLANTS/RAMPANTS Study report Report No.: 20-903071-001 (Brindas, France)	CHIMIGET	3.3 Relative density (liquids) and bulk, tap density (solids) (relative density)	3.3.1. Product AE FC 1 (AÉROSOL VOLANTS/RAMPA NTS): Relative density (liquid formulation without propellant gas)_updated October 2020	yes (incl. QA statement)	yes

FR CA

				3.8 Surface tension (surface tension)	3.8.1. Product AE FC 1 (AÉROSOL VOLANTS/RAMPA NTS): Surface tension (liquid formulation without propellant gas)_updated October 2020	yes (incl. QA statement)	yes
				3.9 Viscosity (viscosity)	3.9.1. Product AE FC 1 (AÉROSOL VOLANTS/RAMPA NTS): Viscosity (liquid formulation without propellant gas)_updated October 2020	yes (incl. QA statement)	yes
Halbwachs P.	2020	O Physico-chemical tests on the product ONE-SHOT AUTO PERCUTANT Study report Report No.: 20-903071-006 (Brindas, France)	CHIMIGET	3.3 Relative density (liquids) and bulk, tap density (solids) (relative density)	3.3.2. Product OS 1 (ONE-SHOT AUTO PERCUTANT): Relative density (liquid formulation without propellant gas)_updated October 2020	yes (incl. QA statement)	yes
				3.8 Surface tension (surface tension)	3.8.2. Product OS 1 (ONE-SHOT AUTO PERCUTANT): Surface tension (liquid formulation without propellant gas)_updated October 2020	yes (incl. QA statement)	yes

				3.9 Viscosity (viscosity)	3.9.2. Product OS 1 (ONE-SHOT AUTO PERCUTANT): Viscosity (liquid formulation without propellant gas)_updated October 2020	yes (incl. QA statement)	yes
Halbwachs P.	2020	Physico-chemical tests on the product LIQUIDE CONCENTRÉ Study report Report No.: 20-903071-017	CHIMIGET	3.3 Relative density (liquids) and bulk, tap density (solids) (relative density)	3.3.3. Product EC (LIQUIDE CONCENTRÉ): Relative density_updated October 2020	yes (incl. QA statement)	yes
	(Brindas, France)	(Brindas, France)		3.4.1 Storage stability tests (storage stability and reactivity towards container material)	3.4.1.3.3. Product EC (LIQUIDE CONCENTRÉ): Low temperature stability test (liquids) (7 days at 0 ± 2°C)_updated October 2020	yes (incl. QA statement)	yes
				3.8 Surface tension (surface tension)	3.8.3. Product EC (LIQUIDE CONCENTRÉ): Surface tension_updated October 2020	yes (incl. QA statement)	yes
				3.9 Viscosity (viscosity)	3.9.3. Product EC (LIQUIDE CONCENTRÉ): Viscosity_updated October 2020	yes (incl. QA statement)	yes

Halbwachs P.	Physico-chemical tests on the product AÉROSOL GUÊPE/FRELON Study report Report No.: 20-903071-010 (Brindas, France)	CHIMIGET	3.3 Relative density (liquids) and bulk, tap density (solids) (relative density)	3.3.4. AÉROSOL GUÊPE/FRELON: Relative density (liquid formulation without propellant gas)_updated October 2020		yes	
		3.8 Surface tension (surface tension)	3.8.4. Product AÉROSOL GUÊPE/FRELON: Surface tension (liquid formulation without propellant gas)_updated October 2020		yes		
				3.9 Viscosity (viscosity)	3.9.4. Product AÉROSOL GUÊPE/FRELON: Viscosity (liquid formulation without propellant gas)_updated October 2020	yes (incl. QA statement)	yes
Halbwachs P.	2022	Physico-chemical tests and analyses before, during and after a storage procedure for 24 months at 20 ± 2°C on the product AEROSOL VOLANTS/RAMPANTS In compliance with Technical Monograph No. 17, 2nd edition CropLife International Study report Report No.: 20-903071-004 (Brindas, France)	CHIMIGET	3.4.1 Storage stability tests (storage stability and reactivity towards container material)	3.4.1.2.1. Product AE FC 1 (AÉROSOL VOLANTS/RAMPA NTS): Long-term storage test at ambient temperature (24 months at 20 ± 2°C)_updated August 2022	yes (incl. QA statement)	yes

Halbwachs P.	2022	Physico-chemical tests and analyses before, during and after a storage procedure for 24 months at 20 ± 2°C on the product ONE-SHOT AUTO PERCUTANT In compliance with Technical Monograph No. 17, 2nd edition CropLife International Study report Report No.: 20-903071-009 Brindas, France)	CHIMIGET	3.4.1 Storage stability tests (storage stability and reactivity towards container material)	3.4.1.2.2. Product OS 1 (ONE-SHOT AUTO PERCUTANT): Long-term storage test at ambient temperature (24 months at 20 ± 2°C)_updated August 2022	yes (incl. QA statement)	yes
Halbwachs P.	2023	Physico-chemical tests and analyses before, during and after a storage procedure for 24 months at 20 ± 2°C on the product LIQUIDE PAE In compliance with Technical Monograph No. 17, 2nd edition CropLife International Study report Report No.: 20-903071-027 (Brindas, France)	CHIMIGET	3.4.1 Storage stability tests (storage stability and reactivity towards container material)	3.4.1.2.3. Product RTU 1 (LIQUIDE PAE): Long-term storage test at ambient temperature (24 months at 20 ± 2°C)_updated July 2023	yes (incl. QA statement)	yes
Halbwachs P.	2022	Physico-chemical tests and chemical stability during and after a storage procedure for 24 months at 20 ± 2°C on the product LIQUIDE CONCENTRÉ In compliance with Technical Monograph No. 17, 2nd edition CropLife International	CHIMIGET	3.4.1 Storage stability tests (storage stability and reactivity towards container material)	3.4.1.2.4. Product EC (LIQUIDE CONCENTRÉ): Long-term storage test at ambient temperature (24 months at 20 ±	yes (incl. QA statement)	yes

		Study report Report No.: 20-903071-019 (Brindas, France)			2°C)_updated August 2022		
Halbwachs P.	2020	Physico-chemical tests before and after a low temperature storage procedure for 7 days at 0 ± 2°C on the product AÉROSOL GUÊPE/FRELON In compliance with CIPAC MT 39.3 CIPAC Handbook J (2000) Study report Report No.: 20-903071-011 (Brindas, France)	CHIMIGET	3.4.1 Storage stability tests (storage stability and reactivity towards container material)	3.4.1.3.4. Product AÉROSOL GUÊPE/FRELON: Low temperature stability test (liquids) (7 days at 0 ± 2°C)_updated October 2020	yes (incl. QA statement)	yes
Halbwachs P.	2020	Physico-chemical tests before and after a low temperature storage procedure for 7 days at 0 ± 2°C on the product AÉROSOL VOLANTS/RAMPANTS In compliance with CIPAC MT 39.3 CIPAC Handbook J (2000) Study report Report No.: 20-903071-002 (Brindas, France)	CHIMIGET	3.4.1 Storage stability tests (storage stability and reactivity towards container material)	3.4.1.3.1. Product AE FC 1 (AÉROSOL VOLANTS/RAMPA NTS): Low temperature stability test (liquids) (7 days at 0 ± 2°C)_updated October 2020	yes (incl. QA statement)	yes
				3.5 Technical characteristics of the biocidal product (spraying pattern - aerosols)	3.5.12.2. Product AE FC 1 (AÉROSOL VOLANTS/RAMPA NTS): Satisfactory operation of the	yes (incl. QA statement)	yes

					sprayer and the spray volume, the spray diameter and pattern before and after low temperature storage_updated July 2021		
Halbwachs P.	2020	Physico-chemical tests before and after a low temperature storage procedure for 7 days at 0 ± 2°C on the product ONE-SHOT AUTO PERCUTANT In compliance with CIPAC MT 39.3 CIPAC Handbook J (2000) Study report Report No.: 20-903071-007	CHIMIGET	3.4.1 Storage stability tests (storage stability and reactivity towards container material)	AUTO PERCUTANT): Low	QA statement	yes
		(Brindas, France)		3.5 Technical characteristics of the biocidal product (spraying pattern - aerosols)	3.5.12.4. Product OS 1 (ONE-SHOT AUTO PERCUTANT): Satisfactory operation of the sprayer and the spray volume, the spray diameter and pattern before and after low temperature storage_updated October 2020	yes (incl. QA statement)	yes
Demangel B.	2021	Physico-chemical tests and chemical analysis of cypermethrin in the product AE WH	CHIMIGET	3.5 Technical characteristics of the biocidal product (particle	3.5.6.4. Product AE WH: Spray droplet size distribution_updat	QA statement	yes

		Study report Report No.: 21-903071-001		size distribution, content of dust/fines, attrition, friability)	ed July 2021		
		(Brindas, France)		3.5 Technical characteristics of the biocidal product (spraying pattern - aerosols)	3.5.12.6. Product AE WH: Satisfactory operation of the sprayer and the spray volume, the spray diameter and pattern before and after accelerated storage_updated July 2021	yes (incl. QA statement)	yes
Guignon J.P.	2022	Rapport d'essais GENVPF5561 - Evaluation du diamètre de spray Study report Report No.: 5561-156-22 (Saint-Michel-sur- Orge, France)	Chimiget	3.5 Technical characteristics of the biocidal product (spraying pattern - aerosols)	3.5.12.7. Product AE FC1_spraying pattern_July 2023	no	yes
Yaverian J- M.	2021	Détermination du point d'éclair – méthode rapide à l'équilibre en vase clos - NORME NF EN ISO 3679 Study report Report and Study No. not provided	Chimiget	4.6 Flammable liquids (flash point of flammable liquids)	point_updated July 2021 4.6.2 Product RTU 1: flash	no	yes
Padilla P.	2022	(France) Flash point test on the product RTU3 In	Chimiget	4.6 Flammable	point_updated July 2021 4.6.3 Product RTU	yes (incl.	yes

		compliance with Regulation (EC) No.1907/2006, Council Regulation (EC) No.440/2008 - EC A.9. method (2008) and ISO Standard 3679 (2015) Study report Report No.: 22-903071-001 (Brindas, France)		liquids (flash point of flammable liquids)	3: flash point_updated April 2023	QA statement)	
Padilla P.	2022	Test methods for corrosion to metals on the product OS2 Study report Report No.: 22-903071-002 (Brindas, France)	Chimiget	4.16 Corrosive to metals (corrosive to metals)	4.16.1 Corrosion to metals_OS2_upda ted April 2023	yes (incl. QA statement)	yes
Padilla P.	2022	Physico-chemical tests on the product EC Study report Report No.: 22-903071-003 (Brindas, France)	Chimiget	4.16 Corrosive to metals (corrosive to metals) 4.17.1 Autoignition temperature (liquids and	ed April 2023 4.17.1 Auto- ignition temperature (liquids)_EC_upd	yes (incl. QA statement) yes (incl. QA statement)	yes
Ricau H.	2020	Validation of the analytical method for the determination of cypermethrin cis/trans 40/60 in the product AÉROSOL	Chimiget	gases) (auto- ignition temperature (liquids)) 5 Methods of detection and identification	ated April 2023 5.1.1 Product AÉROSOL GUÊPE/FRELON:	yes (incl. QA statement	yes
		GUÊPE/FRELON In compliance with SANCO/3030/99 rev.5 from 22/03/2019		(analytical methods)	Determination of cypermethrin)	

		Study report Report No.: 20-903071-014 (Brindas, France)			cis/trans 40/60 content in the product_updated October 2020		
Ricau H.	2020	Validation of the analytical method for the determination of cypermethrin cis/trans 40/60 in the product AÉROSOL VOLANTS/RAMPANTS In compliance with SANCO/3030/99 rev.5 from 22/03/2019 Study report Report No.: 20-903071-005 (Brindas, France)	Chimiget	5 Methods of detection and identification (analytical methods)	5.1.2 Product AE FC 1 (AÉROSOL VOLANTS/RAMPA NTS): Determination of cypermethrin cis/trans 40/60 content in the product_updated October 2020	yes (incl. QA statement)	yes
Ricau H.	2020	Validation of the analytical method for the determination of cypermethrin cis/trans 40/60 in the product LIQUIDE CONCENTRÉ In compliance with SANCO/3030/99 rev.5 from 22/03/2019 Study report Report No.: 20-903071-020 (Brindas, France)	Chimiget	5 Methods of detection and identification (analytical methods)	5.1.3 Product EC (LIQUIDE CONCENTRÉ): Determination of cypermethrin cis/trans 40/60 content in the product_updated October 2020	yes (incl. QA statement)	yes
Guicherd A.	2020	Study of the efficacy of a cypermethrin aerosol (AE WH) applied in direct spray under laboratory conditions on Hymenoptera Reference type not provided	Chimiget	6.7 Efficacy data to support these claims (efficacy data)	6.7_01_Direct spray_AE WH_update20210 7	not specified	yes

		Report No.: 20STALab006					
Guicherd A.	2020	Study of the efficacy of a cypermethrin aerosol (AE FC1) applied in direct spray under laboratory conditions on crawling and flying insects Study report Report No.: 20STALab001	Chimiget	•	6.7_02_Direct spray_AE FC1	not specified	yes
Guicherd A.	2020	Study of the efficacy and residual effect of a cypermethrin aerosol (AE FC1) applied in simulated-use conditions on crawling and flying insects Study report Report No.: 20STALab004	Chimiget	6.7 Efficacy data to support these claims (efficacy data)	6.7_03_Simulated -use_AE FC1_update20210 7	not specified	yes
Guicherd A.	2020	Study of the efficacy of a cypermethrin one-shot fogger aerosol (OS1) applied in simulated-use conditions on crawling and flying insects. Study report Report No.: 20STALab005	Chimiget	6.7 Efficacy data to support these claims (efficacy data)	6.7_04_Simulated - use_OS1_update2 02107	not specified	yes

FR CA	CHIMIGET_CYPER	18

Guicherd A.	Study of the efficacy of a cypermethrin trigger spray (RTU1) applied in forced contact under laboratory conditions on crawling and flying insects Study report Report No.: 20STALab002	Chimiget	6.7 Efficacy data to support these claims (efficacy data)	6.7_05_Laborator y surface_RTU1	not specified	yes
Guicherd A.	Study of the efficacy and residual effect of a cypermethrin trigger spray (RT1) applied in simulated-use conditions on crawling and flying insects. Study report Report No.: 20STALab003		6.7 Efficacy data to support these claims (efficacy data)	6.7_06_Simulated - use_RTU1_update 202107	not specified	yes

3.2 Output tables from exposure assessment tools

Exposure assessment calculation files are not presented in this version of the PAR. For access to the files, please contact directly the eCA (helpdesk-biocides@anses.fr).

3.3 Confidential annex

See the confidential PAR.