

Version	Revision Date:	SDS Number:	Date of last issue: 26.06.2024
5.0	28.09.2024	10850899-00011	Date of first issue: 12.09.2022

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier		
Trade name	:	Cypermethrin Liquid Formulation
Other means of identification	:	VANQUISH LONG WOOL SPRAY-ON LICE TREATMENT AND BLOWFLY STRIKE PREVENTIVE FOR LONG WOOLLED SHEEP AND UNSHORN LAMBS (38354) Vanquish (A005997)
1.2 Relevant identified uses of the	ne s	ubstance or mixture and uses advised against
Use of the Sub- stance/Mixture	:	Veterinary product
Recommended restrictions on use	:	Not applicable
1.3 Details of the supplier of the	saf	ety data sheet
Company	:	MSD Kilsheelan Clonmel Tipperary, IE
Telephone	:	353-51-601000
E-mail address of person responsible for the SDS	:	EHSDATASTEWARD@msd.com

1.4 Emergency telephone number

1-908-423-6000

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin sensitisation, Category 1 Carcinogenicity, Category 1B Reproductive toxicity, Category 2 Short-term (acute) aquatic hazard, Category 1 Long-term (chronic) aquatic hazard, Category 1 H317: May cause an allergic skin reaction.H350: May cause cancer.H361f: Suspected of damaging fertility.H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Hazard pictograms :		:		!
Sign	al word	:	Danger	• •
Haz	ard statements	:	H350 May H361f Sus	 cause an allergic skin reaction. cause cancer. pected of damaging fertility. y toxic to aquatic life with long lasting effects.
Prec	autionary statements	:	Prevention:	
			P273 Avo P280 Wea	ain special instructions before use. id release to the environment. ar protective gloves/ protective clothing/ eye ection/ face protection.
			Response:	
		P308 + P313 IF exposed or concerned: Get medical ad attention.		F exposed or concerned: Get medical advice/
			P333 + P313 I	f skin irritation or rash occurs: Get medical ice/ attention.
				ect spillage.

Hazardous components which must be listed on the label:

Cypermethrin Formaldehyde

Additional Labelling

Restricted to professional users.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

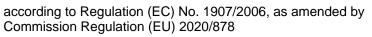
Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical name CAS-No. Classification Concentration	Components		
	Chemical name	CAS-No.	Concentration





sion			e of last issue: 26.06.2024 e of first issue: 12.09.2022	
		EC-No. Index-No. Registration number		(% w/w)
Суре	rmethrin	52315-07-8 257-842-9 607-421-00-4	Acute Tox. 4; H302 Repr. 2; H361f STOT SE 2; H371 (Nervous system) Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 100,000 M-Factor (Chronic aquatic toxicity): 100,000	>= 3 - < 1
			Acute toxicity esti- mate Acute oral toxicity:	
	ne, 2-methyl-, polymer with ne, mono(nonylphenyl) ether	37251-69-7	367 mg/kg Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 1 - < 2
			M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 10	
	xyethylene Nonylphenyl , Branched, Phosphate	68412-53-3	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.25 - <
			M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 10	
Form	aldehyde	50-00-0 200-001-8 605-001-00-5 01-2119488953-20	Flam. Gas 1B; H221 Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 3; H311 Skin Corr. 1B; H314 Eye Dam. 1; H318	>= 0.2 - <

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			Skin Sens. 1A; H317 Muta. 2; H341 Carc. 1B; H350 STOT SE 3; H335
			specific concentration limit Skin Corr. 1B; H314 >= 25 % Skin Irrit. 2; H315 5 - < 25 % Eye Irrit. 2; H319 5 - < 25 % STOT SE 3; H335 >= 5 % Skin Sens. 1A; H317 >= 0.2 %
			Acute toxicity esti- mate
			Acute oral toxicity: 100 mg/kg Acute inhalation tox- icity (gas): 100 ppm Acute dermal toxicity: 270 mg/kg

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
If inhaled	:	If inhaled, remove to fresh air. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.



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In ca	se of eye contact	:	 Flush eyes with water as a precaution. Get medical attention if irritation develops and persists. 			
If swallowed		:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.			
4.2 Most	important symptoms a	nd e	effects, both acut	e and delaved		
Risks		:		ergic skin reaction. er.		
4.3 Indica	tion of any immediate	me	dical attention an	d special treatment needed		
Treat	ment	:	Treat symptomat	ically and supportively.		
-	guishing media ble extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (Dry chemical			
Unsu medi	itable extinguishing a	:	None known.			
5 2 Speci	al hazards arising from	the	substance or m	ixture		
-	ific hazards during fire-	:		bustion products may be a hazard to health.		
Haza ucts	rdous combustion prod-	:	Carbon oxides Nitrogen oxides ((NOx)		
5.3 Advic	e for firefighters					
Spec	ial protective equipment efighters	:		e, wear self-contained breathing apparatus. tective equipment.		
Spec ods	ific extinguishing meth-	:	cumstances and Use water spray	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. aged containers from fire area if it is safe to do		



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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
6.2 Environmental precautions		
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil

barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	For lar ment to be pun Clean bent. Local o posal o employ	p with inert absorbent material. ge spills, provide dyking or other appropriate contain- b keep material from spreading. If dyked material can apped, store recovered material in appropriate container. up remaining materials from spill with suitable absor- or national regulations may apply to releases and dis- of this material, as well as those materials and items yed in the cleanup of releases. You will need to deter- thich regulations are applicable
	Section	rhich regulations are applicable. Ins 13 and 15 of this SDS provide information regarding local or national requirements.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures	: See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.	
Local/Total ventilation	: If sufficient ventilation is unavailable, use with local extremely ventilation.	naust
Advice on safe handling	 Do not get on skin or clothing. Do not breathe mist or vapours. Do not swallow. Avoid contact with eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and practice, based on the results of the workplace exposusessment Keep container tightly closed. 	



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Hygiene measures		Tak env : If ex flus plac wor Wa: The eng app indu	 Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment. If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls. 				
7.2 Condit	ions for safe storage,	includin	g any incom	patibilities			
	ements for storage and containers	tigh		labelled containers. Store locked up. Keep ore in accordance with the particular national			
Advice	e on common storage	: Do not store with the following pro Strong oxidizing agents Self-reactive substances and mix Organic peroxides Explosives Gases		agents stances and mixtures			
•	c end use(s) ic use(s)	: No	data available				

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis			
Propylene glycol	57-55-6	OELV - 8 hrs (TWA) (particles)	10 mg/m3	IE OEL			
		OELV - 8 hrs (TWA) (total (va- pour and parti- cles))	150 ppm 470 mg/m3	IE OEL			
Cypermethrin	52315-07-8	TWA	50 µg/m3 (OEB 3)	Internal			
	Further inform	nation: DSEN, Skin					
		Wipe limit	100 µg/100 cm2	Internal			
Formaldehyde	50-00-0	TWA	0.3 ppm 0.37 mg/m3	2004/37/EC			
	Further inform	Further information: Dermal sensitisation, Carcinogens or mutagens					
		STEL	0.6 ppm 0.74 mg/m3	2004/37/EC			

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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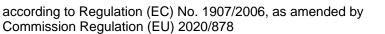
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II	Furth	er information: Dermal	sensitisation, Carcinogens	or mutagens
		OELV - 8 hrs	*·* FF····	IE OEL
		(TWA)	0.37 mg/m3	
	sens allerg	itisation of the respirator	al agents which following e ry tract and lead to asthma Substances presumed to h	, rhinitis or extrinsic
		OELV - 15 m	in 0.6 ppm	IE OEL
		(STEL)	0.738 mg/m3	
	sens allerg	itisation of the respirator	al agents which following e ry tract and lead to asthma Substances presumed to h	a, rhinitis or extrinsic

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Propylene glycol	Workers	Inhalation	Long-term local ef- fects	10 mg/m3
	Workers	Inhalation	Long-term systemic effects	168 mg/m3
	Consumers	Inhalation	Long-term local ef- fects	10 mg/m3
	Consumers	Inhalation	Long-term systemic effects	50 mg/m3
Formaldehyde	Workers	Inhalation	Long-term systemic effects	9 mg/m3
	Workers	Inhalation	Long-term local ef- fects	0.375 mg/m3
	Workers	Inhalation	Acute local effects	0.75 mg/m3
	Workers	Skin contact	Long-term systemic effects	240 mg/kg bw/day
	Workers	Skin contact	Long-term local ef- fects	0.037 mg/cm2
	Consumers	Inhalation	Long-term systemic effects	3.2 mg/m3
	Consumers	Inhalation	Long-term local ef- fects	0.1 mg/m3
	Consumers	Skin contact	Long-term systemic effects	102 mg/kg bw/day
	Consumers	Skin contact	Long-term local ef- fects	0.012 mg/cm2
	Consumers	Ingestion	Long-term systemic effects	4.1 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006

Substance name	Environmental Compartment	Value
Propylene glycol	Fresh water	260 mg/l
	Freshwater - intermittent	183 mg/l
	Marine water	26 mg/l
	Sewage treatment plant	20000 mg/l





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		Fresh water se	ediment	572 mg/kg dry weight (d.w.)	
		Marine sedime	ent	57.2 mg/kg dry weight (d.w.)	
		Soil	Soil Fresh water		
Form	aldehyde	Fresh water			
		Freshwater - ir	ntermittent	4.44 mg/l	
		Marine water	Marine water Sewage treatment plant Fresh water sediment		
		Sewage treatn			
		Fresh water se			
		Marine sedime	Marine sediment		
		Soil		0.2 mg/kg dry weight (d.w.)	

8.2 Exposure controls

Engineering measures

Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip-less quick connections).

All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Laboratory operations do not require special containment.

Personal protective equipment

Eye/face protection	:	Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.
Hand protection Material	:	Chemical-resistant gloves
Skin and body protection Respiratory protection	:	Work uniform or laboratory coat. If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Equipment should conform to I.S. EN 14387
Filter type	:	Combined particulates and organic vapour type (A-P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	suspension
Colour	:	pink
		red
Odour	:	No data available

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	Odour ⁻	Threshold	:	No data available	3
	Melting	point/freezing point	:	No data available	
	Initial b range	oiling point and boiling	:	No data available	
	Flamma	ability (solid, gas)	:	Not applicable	
	Flamma	ability (liquids)	:	No data available	9
		explosion limit / Upper bility limit	:	No data available)
		explosion limit / Lower bility limit	:	No data available)
	Flash p	oint	:	No data available	9
	Auto-ig	nition temperature	:	No data available)
	Decom	position temperature	:	No data available	9
	рН		:	3.0 - 6.0	
	Viscosi Visc	ty osity, kinematic	:	No data available	
	Solubili Wat	ty(ies) er solubility	:	soluble	
	Partition octanol	n coefficient: n- /water	:	Not applicable	
	Vapour	pressure	:	No data available)
	Relative	e density	:	1.02	
	Density	,	:	No data available)
	Relative	e vapour density	:	No data available)
		characteristics icle size	:	Not applicable	
9.2	Other in Explosi	formation ves	:	Not explosive	

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Oxidi	zing properties	: The substance	e or mixture is not classified as oxidizing.
Evap	oration rate	: No data availa	able
Mole	cular weight	: No data availa	able
SECTION	N 10: Stability and r	eactivity	
10.1 Read Not c	stivity lassified as a reactivity	hazard.	
	nical stability e under normal conditi	ons.	
10.3 Poss	bibility of hazardous r	eactions	
Haza	rdous reactions	: Can react with	n strong oxidizing agents.
10.4 Cond	ditions to avoid		
Cond	litions to avoid	: None known.	
10.5 Inco	mpatible materials		
Mate	rials to avoid	: Oxidizing age	nts
	r dous decompositio azardous decompositio	-).
SECTION	N 11: Toxicological	information	
	i i i enteregioai		
	nation on likely routes		egulation (EC) No 1272/2008

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: > 20000 ppm Exposure time: 4 h Test atmosphere: gas Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method

Eye contact

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Com	ponents:		
Cype	ermethrin:		
	e oral toxicity	: LD50 (Rat, female): 367 mg/kg	
		LD50 (Rat, male): 891 mg/kg	
Acute	e dermal toxicity	: LD50 (Rat): > 4,800 mg/kg	
		LD50 (Rabbit): > 2,400 mg/kg	
Oxira	ane, 2-methyl-, polyme	with oxirane, mono(nonylphenyl) ether:	
Acute	e oral toxicity	: LD50 (Rat): > 4,000 mg/kg	
Acute	e dermal toxicity	: LD50 (Rat): > 5,000 mg/kg	
Polve	oxvethvlene Nonviphe	/I Ether, Branched, Phosphate:	
	e oral toxicity	: LD50 (Rat): 4,450 mg/kg Method: OECD Test Guideline 401	
II Form	aldahyday		
	aldehyde: e oral toxicity	: Acute toxicity estimate: 100 mg/kg	
	, ,	Method: Expert judgement Remarks: Based on national or regional regulatio	n.
Acute	e inhalation toxicity	 Acute toxicity estimate (Rat): 100 ppm Exposure time: 4 h Test atmosphere: gas Method: Expert judgement 	
Acute	e dermal toxicity	: LD50 (Rabbit): 270 mg/kg	
	corrosion/irritation	le information	
	ponents:		
Суре	ermethrin:		
Spec		: Rabbit	
Meth Resu		 Draize Test No skin irritation 	
, toou			
		/I Ether, Branched, Phosphate:	
Spec Resu		: Rabbit : Skin irritation	
Form	naldehyde:		
Resu		: Corrosive after 3 minutes to 1 hour of exposure	
Rema	arks	: Based on national or regional regulation.	
		12/27	

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Serious eye damage/eye irritation

Not classified based on available information.

Components:

Cypermethrin:

Species	: Rabbit
Method	: Draize Test
Species Method Result	: No eye irritation

Polyoxyethylene Nonylphenyl Ether, Branched, Phosphate:

Species Method Result	:	Rabbit
Method	:	Draize Test
Result	:	Irreversible effects on the eye

Formaldehyde:

Result Remarks	:	Irreversible effects on the eye
Remarks	:	Based on skin corrosivity.

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Components:

Cypermethrin:

Test Type Species Assessment Result	: Magnusson-Kligman-Test
Species	: Guinea pig
Assessment	: Did not cause sensitisation on laboratory animals.
Result	: Not a skin sensitizer.

Polyoxyethylene Nonylphenyl Ether, Branched, Phosphate:

Exposure routes	:	Skin contact
Exposure routes Species Result	:	Humans
Result	:	negative

Formaldehyde:

Test Type Exposure routes Species Result		Human repeat insult patch test (HRIPT) Skin contact Humans positive
Assessment	:	Probability or evidence of high skin sensitisation rate in humans

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Not c	a cell mutagenicity lassified based on availa	able	information.	
<u>Com</u>	<u>oonents:</u>			
	rmethrin: toxicity in vitro	:	Test Type: Chrom Test system: Hum Result: negative	nosome aberration test in vitro nan lymphocytes
			Test Type: Microb Result: negative	vial mutagenesis assay (Ames test)
			Test Type: sister of Test system: Hum Result: negative	chromatid exchange assay nan lymphocytes
Geno	toxicity in vivo	:	Test Type: In vivo Species: Rat Application Route Result: positive	micronucleus test : Oral
			Test Type: In vivo Species: Rat Application Route Result: positive	micronucleus test : Dermal
			Species: Rat	micronucleus test : Intraperitoneal injection
Germ sessn	cell mutagenicity- As- nent	:	Weight of evidenc cell mutagen.	e does not support classification as a germ
Form	aldehyde:			
	toxicity in vitro	:	Test Type: Bacter Result: positive	ial reverse mutation assay (AMES)
			Test Type: In vitro Result: positive	o mammalian cell gene mutation test
			Test Type: Chrom Result: positive	nosome aberration test in vitro
Geno	toxicity in vivo	:	Test Type: In vivo Species: Mouse Application Route Result: positive	mammalian alkaline comet assay : Inhalation
Germ sessn	cell mutagenicity- As- nent	:	Positive result(s) f genicity tests.	from in vivo mammalian somatic cell muta-

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	nogenicity ause cancer.		
<u>Comp</u>	oonents:		
Form	aldehyde:		
	ation Route	: Rat : inhalation (gas : 28 Months : positive)
Carcir ment	nogenicity - Assess-	: Sufficient evide	ence of carcinogenicity in animal experiments
-	oductive toxicity acted of damaging fer	tility.	
Comp	oonents:		
Суре	rmethrin:		
Effect	s on fertility	Symptoms: Eff ticular effects Test Type: Fer Species: Rat, I Application Ro Fertility: NOAE	nale ute: Oral L: 68 mg/kg body weight ects on fertility, male reproductive effects, Tes- tility nale
Effect ment	s on foetal develop-	Species: Mous Application Ro General Toxici Symptoms: No reproduction c Test Type: Re test Species: Rabb Application Ro Teratogenicity Symptoms: No Test Type: Re test Species: Rat Application Ro Teratogenicity	ute: Oral ty Maternal: NOAEL: 5 mg/kg body weight effects on foetal development, No effect on apacity, Reduced body weight production/Developmental toxicity screening it ute: Oral NOAEL: 30 mg/kg body weight effects on foetal development production/Developmental toxicity screening

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-	productive toxicity - As- sment	Some evidence of advert fertility, based on anima	se effects on sexual function and experiments.
	maldehyde: ects on foetal develop- nt	Test Type: Embryo-foeta Species: Rat Application Route: inhala Result: negative	
Not	DT - single exposure classified based on avail nponents:	information.	
Cyp Targ	permethrin: get Organs essment	Nervous system May cause damage to o	rgans.
	maldehyde: essment	May cause respiratory ir	ritation.
Not	DT - repeated exposure classified based on avail peated dose toxicity	information.	
	nponents:		
Spe NO/ App Exp	permethrin: acies AEL vlication Route osure time get Organs	Rat 5 mg/kg Oral 3 Months Central nervous system	
Exp		Rabbit 12.5 mg/kg Oral 3 Months Central nervous system	
Exp		Dog 1 mg/kg Oral 1 yr anxiety, central nervous	system effects
		Rabbit 20 mg/kg Dermal 3 Weeks	
		16/07	

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Targe Symp	et Organs toms	:	male reproductiv	re organs eight gain, reduced food consumption
•	ation toxicity	vailable	information.	
I.2 Infor	mation on other ha	zards		
Endo	crine disrupting pr	operties	S	
Produ	uct:			
	ssment	:	ered to have end REACH Article 5	nixture does not contain components consid docrine disrupting properties according to 57(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 a r higher.
Expe	rience with human	exposu	Ire	
-	rience with human ponents:	exposu	Ire	
Com		exposu	ire	
<u>Com</u> Cype	oonents:	exposu :	Target Organs: I Symptoms: mus Remarks: Based	cle weakness, central nervous system effect I on Human Evidence on side effects are:
Comp Cype Gene	<u>oonents:</u> rmethrin:	exposu :	Target Organs: I Symptoms: mus Remarks: Based The most comm	cle weakness, central nervous system effect I on Human Evidence on side effects are:
Comp Cype Gene Furth	oonents: rmethrin: ral Information	exposu :	Target Organs: I Symptoms: mus Remarks: Based The most comm	cle weakness, central nervous system effect I on Human Evidence on side effects are:
Comp Cype Gene Furth Comp	oonents: rmethrin: ral Information er information	exposu :	Target Organs: I Symptoms: mus Remarks: Based The most comm	cle weakness, central nervous system effect I on Human Evidence on side effects are:

12.1 Toxicity

Components:		
Cypermethrin:		
Toxicity to fish	:	EC50 (Oncorhynchus mykiss (rainbow trout)): 0.39 μg/l Exposure time: 96 h
		EC50 (Cyprinodon variegatus (sheepshead minnow)): 0.95 μg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.0036 µg/l Exposure time: 48 h

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



EC50 (Americamysis): 0.00475 μg/l Exposure time: 48 h M-Factor (Acute aquatic tox-icity) : 100,000 Toxicity to fish (Chronic tox-icity) : NOEC: 0.14 μg/l Exposure time: 30 d Species: Pimephales promelas (fathead minnow) Toxicity to daphnia and other : NOEC: 0.000781 μg/l aquatic invertebrates (Chronic tox-icity) : NOEC: 0.000781 μg/l M-Factor (Chronic aquatic : 100,000 Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 0. Exposure time: 96 h Remarks: Based on data from similar materials Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 0.1 - 1 mg/l	
 icity) Toxicity to fish (Chronic tox- icity) NOEC: 0.14 μg/l Exposure time: 30 d Species: Pimephales promelas (fathead minnow) Toxicity to daphnia and other NOEC: 0.000781 μg/l Exposure time: 28 d Species: Mysidopsis bahia (opossum shrimp) M-Factor (Chronic aquatic toxicity) M-Factor (Chronic aquatic 100,000 Coxirane, 2-methyl-, polymer with oxirane, mono(nonylphenyl) ether: Toxicity to fish LC50 (Pimephales promelas (fathead minnow)): > 0. Exposure time: 96 h Remarks: Based on data from similar materials 	
icity)Exposure time: 30 d Species: Pimephales promelas (fathead minnow)Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)NOEC: 0.000781 µg/l Exposure time: 28 d Species: Mysidopsis bahia (opossum shrimp)M-Factor (Chronic aquatic toxicity): 100,000M-Factor (Chronic aquatic toxicity): 100,000Oxirane, 2-methyl-, polymer with oxirane, mono(nonylphenyl) ether: Exposure time: 96 h Remarks: Based on data from similar materials	
aquatic invertebrates (Chron- ic toxicity)Exposure time: 28 d Species: Mysidopsis bahia (opossum shrimp)M-Factor (Chronic aquatic toxicity): 100,000Oxirane, 2-methyl-, polymer with oxirane, mono(nonylphenyl) ether:Toxicity to fish: LC50 (Pimephales promelas (fathead minnow)): > 0. Exposure time: 96 h Remarks: Based on data from similar materials	
toxicity)Oxirane, 2-methyl-, polymer with oxirane, mono(nonylphenyl) ether:Toxicity to fish: LC50 (Pimephales promelas (fathead minnow)): > 0. Exposure time: 96 h Remarks: Based on data from similar materials	
Toxicity to fish: LC50 (Pimephales promelas (fathead minnow)): > 0. Exposure time: 96 h Remarks: Based on data from similar materials	
Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 0. Exposure time: 96 h Remarks: Based on data from similar materials	
Toxicity to daphnia and other : $EC50$ (Daphnia magna (Water flea)): > 0.1 - 1 mg/l	.1 - 1 mg/l
aquatic invertebrates Method: ISO 6341 Remarks: Based on data from similar materials	
Toxicity to algae/aquatic plants : ErC50 (Raphidocelis subcapitata (freshwater green a mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials	alga)): > 1
NOEC (Raphidocelis subcapitata (freshwater green a mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials	alga)): > 1
M-Factor (Acute aquatic tox- : 1 icity)	
Toxicity to microorganisms : EC10 (activated sludge): > 1 mg/l Exposure time: 3 h Method: OECD Test Guideline 209 Remarks: Based on data from similar materials	
Toxicity to fish (Chronic tox- icity) : NOEC: > 0.1 - 1 mg/l Exposure time: 100 d Species: Oryzias latipes (Japanese medaka) Remarks: Based on data from similar materials	
Toxicity to daphnia and other : NOEC: > 0.001 - 0.01 mg/l	

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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aquati ic toxi	ic invertebrates (Chron- city)			3 d osis bahia (opossum shrimp) on data from similar materials
M-Fac toxicit	ctor (Chronic aquatic y)	:	10	
Polyo	xyethylene Nonylphen	yl E	Ether, Branched, I	Phosphate:
Toxici	ty to fish	:	Exposure time: 96	s promelas (fathead minnow)): > 0.1 - 1 mg 6 h on data from similar materials
	ty to daphnia and other ic invertebrates	:	Exposure time: 48 Method: ISO 634	
Toxici plants	ty to algae/aquatic	:	ErC50 (Raphidoc mg/l Exposure time: 72 Method: OECD T	elis subcapitata (freshwater green alga)): > 2 h
			mg/l Exposure time: 72 Method: OECD T	
M-Fac icity)	ctor (Acute aquatic tox-	:	1	
Toxici	ty to microorganisms	:		
Toxici icity)	ty to fish (Chronic tox-	:		
	ty to daphnia and other ic invertebrates (Chron- city)	:		
M-Fac toxicit	ctor (Chronic aquatic y)	:	10	
Form	aldehyde:			
Toxici	ty to fish	:	LC50 (Morone sa Exposure time: 96	xatilis (striped bass)): 6.7 mg/l 5 h



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	icity to daphnia and other atic invertebrates	:	EC50 (Daphnia p Exposure time: 4	oulex (Water flea)): 5.8 mg/l 8 h
Tox plai	ricity to algae/aquatic hts	:	Exposure time: 7	esmus subspicatus (green algae)): 4.89 mg/l 2 h Test Guideline 201
Тох	icity to microorganisms	:	: EC50 (activated sludge): 19 mg/l Exposure time: 3 h Method: OECD Test Guideline 209	
aqu	cicity to daphnia and other natic invertebrates (Chron- pxicity)	:	: NOEC: 1.04 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211	
12.2 Pei	sistence and degradabil	ity		
Co	Components:			
Су	permethrin:			
	bility in water	:	Degradation half life (DT50): 17 d	
Oxi	rane, 2-methyl-, polymer	wit	th oxirane, mono	(nonylphenyl) ether:
Bio	degradability	:	Result: Not readi Remarks: Based	ly biodegradable. on data from similar materials
Pol	yoxyethylene Nonylphen	ıyl I	Ether, Branched,	Phosphate:
Bio	degradability	:	: Result: Not readily biodegradable. Remarks: Based on data from similar materials	
For	maldehyde:			
Bio	degradability	:	 Result: Readily biodegradable. Biodegradation: 99 % Exposure time: 28 d Method: OECD Test Guideline 301A 	
12.3 Bio	12.3 Bioaccumulative potential			

Components:

Cypermethrin:		
Bioaccumulation	:	Bioconcentration factor (BCF): 488
Partition coefficient: n- octanol/water	:	log Pow: 6.6

Oxirane, 2-methyl-, polymer with oxirane, mono(nonylphenyl) ether:

Partition coefficient: n-	:	log Pow: < 4
octanol/water		Remarks: Calculation

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II			
Polyc	xyethylene Nonylpho	enyl Ether, Branche	d, Phosphate:
	on coefficient: n- ol/water	: log Pow: > 4 Remarks: Exp	ert judgement
Form	aldehyde:		
	on coefficient: n- ol/water	: log Pow: 0.35 Remarks: Cal	culation
12.4 Mobi	lity in soil		
Comp	oonents:		
Distrik	rmethrin: oution among environ- al compartments ity in soil	: log Koc: 5.58 :	
12.5 Resu	Its of PBT and vPvB	assessment	
Produ	uct:		
	sment	to be either pe	e/mixture contains no components considered ersistent, bioaccumulative and toxic (PBT), or t and very bioaccumulative (vPvB) at levels of r.
12.6 Endo	crine disrupting prop	perties	
Produ		-	

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	 Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. Do not dispose of waste into sewer. 	
Contaminated packaging	 Empty containers should be taken to an approved waste han dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product. 	



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SECTION 14: Transport information

14.1 UN number or ID number			
ADN	:	UN 3082	
ADR	:	UN 3082	
RID	:	UN 3082	
IMDG	:	UN 3082	
ΙΑΤΑ	:	UN 3082	
14.2 UN proper shipping name			
ADN	:	ENVIRONMENTALLY N.O.S. (Cypermethrin)	Y HAZARDOUS SUBSTANCE, LIQUID,
ADR	:	ENVIRONMENTALLY N.O.S. (Cypermethrin)	Y HAZARDOUS SUBSTANCE, LIQUID,
RID	:	ENVIRONMENTALLY N.O.S. (Cypermethrin)	Y HAZARDOUS SUBSTANCE, LIQUID,
IMDG	:	ENVIRONMENTALLY N.O.S. (Cypermethrin)	Y HAZARDOUS SUBSTANCE, LIQUID,
ΙΑΤΑ	:	Environmentally haza (Cypermethrin)	rdous substance, liquid, n.o.s.
14.3 Transport hazard class(es)			
		Class	Subsidiary risks
ADN	:	9	
ADR	:	9	
RID	:	9	
IMDG	:	9	
ΙΑΤΑ	:	9	
14.4 Packing group			
ADN Packing group	:		

Packing group Classification Code Hazard Identification Number Labels	::	III M6 90 9
ADR Packing group Classification Code Hazard Identification Number	:	III M6 90

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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	Labels Tunnel	restriction code	:	9 (-)	
	Classif	g group ication Code I Identification Number	:	III M6 90 9	
	IMDG Packin Labels EmS C	g group ode	:	III 9 F-A, S-F	
	Packin aircraft Packin	Cargo) g instruction (cargo) g instruction (LQ) g group	:	964 Y964 III Miscellaneous	
	Packin ger airo Packin	g instruction (LQ) g group	:	964 Y964 III Miscellaneous	
14.5	5 Enviro	onmental hazards			
	ADN Enviror	nmentally hazardous	:	yes	
	ADR Enviror	nmentally hazardous	:	yes	
	RID Enviror	nmentally hazardous	:	yes	
	IMDG Marine	pollutant	:	yes	
		Passenger)	:	yes	
		Cargo) nmentally hazardous	:	yes	

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Remarks

: Not applicable for product as supplied.



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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	 Conditions of restriction for the fol- lowing entries should be considered: Number on list 3 Number on list 28: Formaldehyde
	Number on list 46b: Polyoxyethylene Nonylphenyl Ether, Branched, Phosphate
	Number on list 46a.: Polyoxyeth- ylene Nonylphenyl Ether, Branched, Phosphate
	Number on list 72: Formaldehyde
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	Number on list 75: If you intend to use this product as tattoo ink, please contact your vendor.
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	Number on list 77: Formaldehyde
	Substance(s) or mixture(s) are listed here according to their appearance in the regulation, irrespective of their use/purpose or the conditions of the restriction. Please refer to the condi- tions in corresponding Regulation to determine whether an entry is appli- cable to the placing on the market or not.
REACH - Candidate List of Substances of Very High	: Not applicable
Concern for Authorisation (Article 59). Regulation (EC) on substances that deplete the ozone layer	: Not applicable
Regulation (EU) 2019/1021 on persistent organic pollu- tants (recast)	: Not applicable
Regulation (EU) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals	: Polyoxyethylene Nonylphenyl Ether, Branched, Phosphate
REACH - List of substances subject to authorisation (Annex XIV)	: Not applicable



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Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.					

		Quantity i	
E1	ENVIRONMENTAL	100 t	200 t
	HAZARDS		

Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

The components of this product are reported in the following inventories:

AICS	:	not determined
DSL	:	not determined
IECSC	:	not determined

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

CTION 16: Other information	n	
Other information	: Items where changes have been made are highlighted in the body of this docu lines.	
Full text of H-Statements		
H221	: Flammable gas.	
H301	: Toxic if swallowed.	
H302	: Harmful if swallowed.	
H311	: Toxic in contact with skin.	
H314	: Causes severe skin burns and eye dan	nage.
H315	: Causes skin irritation.	U U
H317	: May cause an allergic skin reaction.	
H318	: Causes serious eye damage.	
H330	: Fatal if inhaled.	
H335	: May cause respiratory irritation.	
H341	: Suspected of causing genetic defects.	
H350	: May cause cancer.	
H361f	: Suspected of damaging fertility.	
H371	: May cause damage to organs.	
H400	: Very toxic to aquatic life.	
H410	: Very toxic to aquatic life with long lastir	ng effects.
Full text of other abbrevia	IS	
Acute Tox.	: Acute toxicity	
Aquatic Acute	: Short-term (acute) aquatic hazard	
Aquatic Chronic	: Long-term (chronic) aquatic hazard	
Carc.	: Carcinogenicity	

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Eye Da		:	Serious eye dama	•	
Flam.	Gas	:	Flammable gases		
Muta.		:	Germ cell mutage	nicity	
Repr.		:	Reproductive toxi	city	
Skin C	Corr.	:	: Skin corrosion		
Skin Ir	rit.	:	: Skin irritation		
Skin S	Sens.	:	: Skin sensitisation		
STOT	SE	:	: Specific target organ toxicity - single exposure		
2004/3	37/EC	:	: Europe. Directive 2004/37/EC on the protection of workers		
		from the risks related to exposure to carcinogens or mutager		ted to exposure to carcinogens or mutagens	
			at work		
IE OEI	L	: Ireland. List of Chemical Agents and Carcinogens with Oco			
		pational Exposure Limit Values - Code of Practice, Schedu			
			and 2		
2004/3	37/EC / STEL	:	Short term expos	ure limit	
	37/EC / TWA	:	: Long term exposure limit		
IE OE!	L / OELV - 8 hrs (TWA)	:		osure limit value (8-hour reference period)	
	L / OELV - 15 min	:		osure limit value (15-minute reference peri-	
(STEL		-	od)		

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

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Furth	er information			
comp	Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen cy, http://echa.europa.eu/			
Class	ification of the mixtu	re:	Classification procedure:	
Skin S	Sens. 1	H317	Calculation method	
Carc.	1B	H350	Calculation method	
Repr.	2	H361f	Calculation method	

H400

H410

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Calculation method

Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

IE / EN

Aquatic Acute 1

Aquatic Chronic 1