

7.0 06.04.2024 1366471-00019 Date of first issue: 01.03.2017	Version 7.0	Revision Date: 06.04.2024	SDS Number: 1366471-00019	Date of last issue: 30.09.2023 Date of first issue: 01.03.2017	
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Section 1: Identification

Product name	:	Lambda-Cyhalothrin / Piperonyl Butoxide Formulation			
Manufacturer or supplier's details Company : MSD					
Address	:	33 Whakatiki Street - Private Bag 908 Upper Hutt - New Zealand			
Telephone	:	0800 800 543			
Emergency telephone number	:	0800 764 766 (0800 POISON) 0 CHEMCALL)	0800 243 622 (0800		
E-mail address	:	: EHSDATASTEWARD@msd.com			
Recommended use of the chemical and restrictions on use					
Recommended use Restrictions on use	:	: Veterinary product : Not applicable			

Section 2: Hazard identification

GHS Classification Acute toxicity (Oral)	:	Category 4
Skin corrosion/irritation	:	Category 2
Serious eye damage/eye irri- tation	:	Category 2
Specific target organ toxicity - single exposure	:	Category 2 (Nervous system)
Hazardous to the aquatic environment - acute hazard	:	Category 1
Hazardous to the aquatic environment - chronic hazard	:	Category 1

GHS label elements



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Hazai	rd pictograms		!	
Signa	l word	: Warning	v v	
Hazard statements		H371 May cau		
Precautionary statements		P264 Wash sk P270 Do not e P273 Avoid re P280 Wear pro Response: P301 + P312 - CENTER/ doc P302 + P352 I P305 + P351 - for several mir easy to do. Co P308 + P311 I CENTER/ doc P332 + P313 I tion. P337 + P313 I tention.	exposed or concerned: Call a POISON	
		P391 Collect s Storage: P405 Store loo		
		Disposal:	of contents/ container to an approved waste	

None known.

Section 3: Composition/information on ingredients

Substance / Mixture

: Mixture



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Components

Chemical name	CAS-No.	Concentration (% w/w)
2-(2-butoxyethoxy)ethyl 6-propylpiperonyl ether	51-03-6	>= 2.5 -< 10
lambda-cyhalothrin (ISO)	91465-08-6	>= 1 -< 2.5

Section 4: 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.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention.
If swallowed	:	If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. Get medical attention. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	:	Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause damage to organs.
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).
Notes to physician	:	Treat symptomatically and supportively.

Section 5: Fire-fighting measures

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire- fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Nitrogen oxides (NOx) Chlorine compounds



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		Fluorir	e compounds
Spec ods	ific extinguishing meth-	cumsta Use w Remov so.	tinguishing measures that are appropriate to local cir- ances and the surrounding environment. ater spray to cool unopened containers. we undamaged containers from fire area if it is safe to do ate area.
for fir	Special protective equipment : for firefighters Hazchem Code :		event of fire, wear self-contained breathing apparatus. ersonal protective equipment.
Section 6	: Accidental release me	easures	
	onal precautions, protec-	•	ersonal protective equipment. safe handling advice (see section 7) and personal pro-

tive equipment and emer- gency procedures	Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
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.
Methods and materials for containment and cleaning up	 Soak up with inert absorbent material. For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

Section 7: Handling and storage

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	Use only with adequate ventilation.
Advice on safe handling	:	Do not get on skin or clothing.
		Do not breathe mist or vapours.
		Do not swallow.
		Do not get in eyes.
		Wash skin thoroughly after handling.



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Hyg	giene measures	 practice, based sessment Do not eat, drint Take care to preenvironment. If exposure to cliflushing system place. When using do Wash contamina The effective op engineering con appropriate deg 	dance with good industrial hygiene and safety on the results of the workplace exposure as- k or smoke when using this product. event spills, waste and minimize release to the hemical is likely during typical use, provide eye s and safety showers close to the working not eat, drink or smoke. ated clothing before re-use. beration of a facility should include review of htrols, proper personal protective equipment, owning and decontamination procedures, he monitoring, medical surveillance and the retive controls.		
Co	nditions for safe storage				
Materials to avoidStore in accordance with the particular national regulMaterials to avoid:Do not store with the following product types:Strong oxidizing agents		h the following product types:			

Section 8: Exposure controls/personal protection

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
2-(2-butoxyethoxy)ethyl 6- propylpiperonyl ether	51-03-6	TWA	4 mg/m3 (OEB 1)	Internal
lambda-cyhalothrin (ISO)	91465-08-6	TWA	5 µg/m3 (OEB 4)	Internal
	Further information: Skin			
		Wipe limit	50 µg/100 cm ²	Internal

Engineering measures All engineering controls should be implemented by facility : design and operated in accordance with GMP principles to protect products, workers, and the environment. Essentially no open handling permitted. Use closed processing systems or containment technologies. If handled in a laboratory, use a properly designed biosafety cabinet, fume hood, or other containment device if the potential exists for aerosolization. If this potential does not exist, handle over lined trays or benchtops. Personal protective equipment Respiratory protection If adequate local exhaust ventilation is not available or expo-: sure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.

Filter type

: Combined particulates and organic vapour type



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Hand	protection		
Ma	aterial	: Chemical-resist	ant gloves
	emarks rotection	If the work envi mists or aeroso Wear a faceshi	e gloving. usses with side shields or goggles. ronment or activity involves dusty conditions, ls, wear the appropriate goggles. eld or other full face protection if there is a ect contact to the face with dusts, mists, or
Skin a	and body protection	Additional body task being perfo posable suits) to	r laboratory coat. garments should be used based upon the prmed (e.g., sleevelets, apron, gauntlets, dis- o avoid exposed skin surfaces. e degowning techniques to remove potentially lothing.

Section 9: Physical and chemical properties

Appearance	:	liquid
Colour	:	clear, light yellow
Odour	:	mild, oily
Odour Threshold	:	No data available
рН	:	6.16
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	105.5 °C
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available



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Relative vapour density	:	No data available
Relative density	:	0.9326
Density	:	No data available
Solubility(ies) Water solubility	:	No data available
Partition coefficient: n- octanol/water	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Molecular weight	:	Not applicable
Particle characteristics Particle size	:	Not applicable

Section 10: Stability and reactivity

Reactivity Chemical stability		Not classified as a reactivity hazard. Stable under normal conditions.
Possibility of hazardous reac- tions	:	Can react with strong oxidizing agents.
Conditions to avoid	:	None known.
Incompatible materials	:	Oxidizing agents
Hazardous decomposition products	:	No hazardous decomposition products are known.

Section 11: Toxicological information

Exposure routes	: Inhalation Skin contact Ingestion Eye contact
Acute toxicity	

Harmful if swallowed.



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<u>Produ</u>	<u>ict:</u>			
Acute	oral toxicity	:	LD50 (Rat): 2,000) mg/kg
			TDLo (Rat): 300 r Remarks: No mor	ng/kg tality observed at this dose.
Acute	inhalation toxicity	:	Acute toxicity esti Exposure time: 4 Test atmosphere: Method: Calculati	h dust/mist
Acute	dermal toxicity	:	LD50 (Rat): > 2,0	00 mg/kg
<u>Comp</u>	oonents:			
2-(2-b	utoxyethoxy)ethyl 6-p	rop	ylpiperonyl ether:	
Acute	oral toxicity	:	LD50 (Rat): > 2,0 Method: OECD To	
Acute	inhalation toxicity	:	LC50 (Rat): > 5.2 Exposure time: 4 Test atmosphere: Method: OECD Te	h dust/mist
Acute	dermal toxicity	:	LD50 (Rat): > 2,0 Method: OECD To	
lambo	la-cyhalothrin (ISO):			
Acute	oral toxicity	:	LD50 (Rat): 56 - 7	79 mg/kg
			LD50 (Mouse): 20) mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): 0.06 Exposure time: 4 Test atmosphere:	h
Acute	dermal toxicity	:	LD50 (Rat): 632 -	696 mg/kg
	toxicity (other routes of istration)	:	LD50 (Rat): 250 - Application Route	
	corrosion/irritation es skin irritation.			
<u>Produ</u> Specie Result	es	:	Rabbit irritating	



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Components:

Components:				
2-(2-butoxyethoxy)ethyl 6-propylpiperonyl ether:				
Species Method Result		Rabbit OECD Test Guideline 404 No skin irritation		
Assessment	:	Repeated exposure may cause skin dryness or cracking.		
lambda-cyhalothrin (ISO):				
Species Result		Rabbit No skin irritation		
Serious eye damage/eye irri	tati	ion		
Causes serious eye irritation.				
<u>Product:</u> Species Result	:	Rabbit Mild eye irritation		
Components:				
2-(2-butoxyethoxy)ethyl 6-pi	rop	ylpiperonyl ether:		
Species Result	:	Rabbit Irritation to eyes, reversing within 21 days		
Method	:	OECD Test Guideline 405		
lambda-cyhalothrin (ISO):				
Species Result	:	Rabbit Mild eye irritation		
Respiratory or skin sensitis	atic	on		
Skin sensitisation Not classified based on availa	ble	information.		
Respiratory sensitisation Not classified based on availa	ble	information.		
Product:				
Test Type Exposure routes	:	Local lymph node assay (LLNA) Dermal		
Assessment	:	Does not cause skin sensitisation.		
Result	:	negative		
	:	Magnusson-Kligman-Test		

: Not a skin sensitizer.



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Components:

2-(2-butoxyethoxy)ethyl 6-propylpiperonyl ether:

Test Type Exposure routes Species Method Result	: Maximisation Test
Exposure routes	: Skin contact
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: negative

lambda-cyhalothrin (ISO):

: Magnusson-Kligman-Test
: Dermal
: Guinea pig
: Not a skin sensitizer.

Chronic toxicity

Germ cell mutagenicity

Not classified based on available information.

Components:

2-(2-butoxyethoxy)ethyl 6-propylpiperonyl ether:

2-(2-butoxyetnoxy)etnyi 6-pro	pyipiperonyi etner:
Genotoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative
lambda-cyhalothrin (ISO):	
Genotoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative
	Test Type: Chromosomal aberration Test system: Human lymphocytes Result: negative
	Test Type: unscheduled DNA synthesis assay Test system: rat hepatocytes Result: negative
	Test Type: In vitro mammalian cell gene mutation test Test system: mouse lymphoma cells Result: negative
Genotoxicity in vivo	: Test Type: Micronucleus test Species: Mouse Cell type: Bone marrow Application Route: Intraperitoneal Result: negative



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Carcinogenicity

Not classified based on available information.

Components:

2-(2-butoxyethoxy)ethyl 6-propylpiperonyl ether:

Species	: Rat
Application Route	: Ingestion
Exposure time	: 107 weeks
Method	: OECD Test Guideline 451
Species Application Route Exposure time Method Result	: negative

lambda-cyhalothrin (ISO):

Species	: Mouse
Application Route	: oral (feed)
Exposure time	: 2 Years
Result	: negative
Species Application Route Exposure time Result Remarks	: Based on data from similar materials
Species Application Route Exposure time	: Rat
Application Route	: oral (feed)
Exposure time	: 2 Years

negative

Based on data from similar materials

:

:

Reproductive toxicity

Not classified based on available information.

Components:

Result

Remarks

2-(2-butoxyethoxy)ethyl 6-propylpiperonyl ether:

Effects on fertility	:	Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Ingestion Result: negative
Effects on foetal develop- ment	:	Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative
lambda-cyhalothrin (ISO):		
Effects on fertility	:	Test Type: Three-generation study Species: Rat Application Route: oral (feed) General Toxicity - Parent: NOAEL: 2 mg/kg body weight General Toxicity F1: LOAEL: 6.7 mg/kg body weight Symptoms: Reduced offspring weight gain Result: No effects on fertility



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1		Remarks: Based on data from similar materials
Effects on foetal develop- ment	:	Test Type: Development Species: Rat Application Route: Oral General Toxicity Maternal: NOAEL: 10 mg/kg body weight Developmental Toxicity: LOAEL: 15 mg/kg body weight Result: No effects on foetal development, Reduced maternal body weight gain, Reduced foetal weight Remarks: Based on data from similar materials
		Test Type: Development Species: Rabbit Application Route: Oral General Toxicity Maternal: NOAEL: 10 mg/kg body weight Developmental Toxicity: NOAEL: 30 mg/kg body weight Result: No effects on foetal development, Reduced maternal body weight gain, Reduced foetal weight Remarks: Based on data from similar materials

STOT - single exposure

May cause damage to organs (Nervous system).

Components:

2-(2-butoxyethoxy)ethyl	-propylpiperonyl ether:	
Assessment	: May cause respiratory irritat	tion.

lambda-cyhalothrin (ISO):

Target Organs Assessment	:	Nervous system
Assessment	:	Causes damage to organs.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

2-(2-butoxyethoxy)ethyl 6-propylpiperonyl ether:

Species	: Rat
Species NOAEL Application Route Exposure time	: 1,323 mg/kg
Application Route	: Ingestion
Exposure time	: 7 Weeks

lambda-cyhalothrin (ISO):

Species	: Dog
NOAEL	: 2.5 mg/kg
Species NOAEL LOAEL	: 12.5 mg/kg



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Application Route Exposure time Symptoms Species NOAEL LOAEL Application Route Exposure time Target Organs		 oral (feed) 90 d reduced body weight gain, reduced food consumption Rat 10 mg/kg 50 mg/kg Dermal 21 d Nervous system 				
Species NOAEL LOAEL Application Route Exposure time Target Organs		: Rat : 0.08 mg/kg : 0.9 mg/kg : Inhalation : 21 d : Nervous syste	em			
Expos	L L cation Route sure time t Organs	: Dog : 0.1 mg/kg : 0.5 mg/kg : Oral : 1 yr : Nervous syste : Gastrointestin Liver effects	em al disturbance, Vomiting, Convulsions, ataxia,			

Aspiration toxicity

Not classified based on available information.

Experience with human exposure

Components:

lambda-cyhalothrin (ISO):

Inhalation	: Symptoms: Cough, Local irritation, sneezing
Skin contact	: Symptoms: Skin irritation, tingling, superficial burning sensa- tion, Local irritation
	Remarks: Can be absorbed through skin.
Eye contact Ingestion	: Symptoms: Eye irritation
Ingestion	: Symptoms: Gastrointestinal disturbance

Section 12: Ecological information

Ecotoxicity

Components:

2-(2-butoxyethoxy)ethyl 6-propylpiperonyl ether:

Toxicity	to	fish

: LC50 (Cyprinodon variegatus (sheepshead minnow)): 3.94 mg/l



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			Exposure time: 90 Method: OECD T	6 h est Guideline 203
	ity to daphnia and other tic invertebrates	:	Exposure time: 48	nagna (Water flea)): 0.51 mg/l 3 h est Guideline 202
Toxic plants	ity to algae/aquatic s	:	ErC50 (Pseudoki mg/l Exposure time: 72 Method: OECD T	rchneriella subcapitata (green algae)): 3.89 2 h est Guideline 201
			mg/l Exposure time: 72	rchneriella subcapitata (green algae)): 0.8 2 h est Guideline 201
	ctor (Acute aquatic tox-	:	1	
icity) Toxic icity)	ity to fish (Chronic tox-	:	NOEC (Pimephal Exposure time: 3	es promelas (fathead minnow)): 0.18 mg/l 5 d
	ity to daphnia and other tic invertebrates (Chron-	:	NOEC (Daphnia Exposure time: 2	magna (Water flea)): 0.03 mg/l 1 d
	ctor (Chronic aquatic	:	1	
	ity to microorganisms	:	EC50: > 1,000 m Exposure time: 3 Method: OECD T	
II Iamb	da-cyhalothrin (ISO):			
	ity to fish	:	Exposure time: 9 Method: OECD T	chus mykiss (rainbow trout)): 0.00019 mg/l 6 h est Guideline 203 on data from similar materials
			Exposure time: 90 Method: OECD T	nacrochirus (Bluegill sunfish)): 0.00021 mg 5 h est Guideline 203 on data from similar materials
	ity to daphnia and other tic invertebrates	:	Exposure time: 48 Method: OECD T	nagna (Water flea)): 0.00004 mg/l 3 h est Guideline 202 on data from similar materials
	ctor (Acute aquatic tox-	:	10,000	
icity)	ity to fish (Chronic tox-		NOEC (Pimephal	es promelas (fathead minnow)): 0.000062



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icity)			mg/l Exposure time: 32 Method: OECD To Remarks: Based of		
	ic invertebrates (Chron-	:	Exposure time: 21 Method: OECD To		
	M-Factor (Chronic aquatic toxicity)		10,000		
Persi	stence and degradabili	ty			
Comp	oonents:				
2-(2-k	outoxyethoxy)ethyl 6-pi	op	ylpiperonyl ether:		
Biode	gradability	:	Result: Not readily Biodegradation: (Exposure time: 28 Method: OECD To	0 %	
Bioad	cumulative potential				
Com	oonents:				
2-(2-b	outoxyethoxy)ethyl 6-pi	op	ylpiperonyl ether:		
	ion coefficient: n- ol/water	:	log Pow: 5		
	da-cyhalothrin (ISO):				
Bioac	cumulation	:	Bioconcentration Method: OECD To	factor (BCF): 2,240 est Guideline 305	
	ion coefficient: n- ol/water	:	log Pow: 7.0 (20 °	°C)	
Mobi	lity in soil				
Com	oonents:				
lambo	da-cyhalothrin (ISO):				
	oution among environ- al compartments	:	log Koc: 5.5		
	r adverse effects ata available				



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Section 13: Disposal considerations

Disposal methods		
Waste from residues	:	Do not dispose of waste into sewer.
		Dispose of in accordance with local regulations.
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.

Section 14: Transport information

International Regulations

UNRTDG		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
		N.O.S.
		(2-(2-butoxyethoxy)ethyl 6-propylpiperonyl ether, lambda-
		cyhalothrin (ISO))
Class	:	9
Packing group	:	
Labels	:	9
Environmentally hazardous	:	yes
IATA-DGR		
UN/ID No.	:	UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s.
		(2-(2-butoxyethoxy)ethyl 6-propylpiperonyl ether, lambda-
		cyhalothrin (ISO))
Class	:	9
Packing group	:	
Labels	:	Miscellaneous
Packing instruction (cargo	:	964
aircraft)		
Packing instruction (passen-	:	964
ger aircraft)	_	
Environmentally hazardous	:	yes
IMDG-Code		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
		N.O.S.
		(2-(2-butoxyethoxy)ethyl 6-propylpiperonyl ether, lambda-
		cyhalothrin (ISO))
Class	:	9
Packing group	:	
Labels	:	9
EmS Code	:	F-A, S-F
Marine pollutant	:	yes



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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

NZS 5433 UN number Proper shipping name	:	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-(2-butoxyethoxy)ethyl 6-propylpiperonyl ether, lambda- cyhalothrin (ISO))
Class	:	9
Packing group	:	III
Labels	:	9
Hazchem Code	:	3Z
Marine pollutant	:	no

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.

Section 15: Regulatory information

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

HSNO Approval Number

HSR100759 Veterinary Medicines Non dispersive Open System Application Group Standard

Tolerable Exposure Limits (TEL)

Not applicable

Environmental Exposure Limits (EEL)

Chemical name	Environmental compartment	Reference concentration
lambda-cyhalothrin	Water	0.1 μg/l

HSW Controls

Certified handler certificate not required.

Tracking hazardous substance not required.

Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further information.

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

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



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Section 16: Other information

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Further information		
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/

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

Date format : dd.mm.yyyy

Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); 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; ERG - Emergency Response Guide; 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; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; 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; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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



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