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Section 1: Identification

Product name	:	Lambda-Cyhalothrin / Piperonyl Butoxide Ear Tag					
Manufacturer or supplier's details Company : MSD							
Address							
Telephone	:	0800 800 543					
Emergency telephone number	:	0800 764 766 (0800 POISON) CHEMCALL)	0800 243 622 (0800				
E-mail address	:	EHSDATASTEWARD@msd.com	n				
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
Carcinogenicity (Inhalation)	:	Category 2
Specific target organ toxicity - single exposure	:	Category 1 (Nervous system)
Hazardous to the aquatic environment - acute hazard	:	Category 1
Hazardous to the aquatic environment - chronic hazard	:	Category 1
GHS label elements		
Hazard pictograms	:	
Signal word	:	Danger



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Haza	rd statements	H370 Causes of	if swallowed. ed of causing cancer if inhaled. damage to organs (Nervous system). ic to aquatic life with long lasting effects.
Preca	autionary statements	P202 Do not ha and understood P264 Wash ski P270 Do not ea P273 Avoid rel	in thoroughly after handling. at, drink or smoke when using this product. ease to the environment. otective gloves/ protective clothing/ eye protec-
		CENTER/ doct	
		Storage:	land and
		P405 Store loc	kea up.
		Disposal: P501 Dispose disposal plant.	of contents/ container to an approved waste
	r hazards which do n o known.	ot result in classifica	tion

Section 3: Composition/information on ingredients

Substance /	Mixture	:	Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Polyvinyl chloride	9002-86-2	>= 50 -< 70
2-(2-butoxyethoxy)ethyl 6-propylpiperonyl ether	51-03-6	>= 10 -< 20
lambda-cyhalothrin (ISO)	91465-08-6	>= 10 -< 20
Titanium dioxide	13463-67-7	>= 0.1 -< 1

Section 4: First-aid measures

General advice : In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.



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lf inha	aled	:	If inhaled, remove Get medical atten			
In cas	se of skin contact	:	In case of contact of water. Remove contamin Get medical atter Wash clothing be	, immediately flush skin with soap and plenty nated clothing and shoes. ition.		
In cas	se of eye contact	: Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.				
lf swa	allowed	:	If swallowed, DO so by medical per Get medical atter Rinse mouth thor	NOT induce vomiting unless directed to do rsonnel.		
Most	important symptoms	:	Harmful if swallow			
	effects, both acute and		•	sing cancer if inhaled.		
delay Prote	ection of first-aiders	:	and use the recor	to organs. ers should pay attention to self-protection, mmended personal protective equipment al for exposure exists (see section 8).		
Notes	s to physician	:		cally and supportively.		
Section 5	: Fire-fighting measure	S				
Suita	ble extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C			

		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-	:	Carbon oxides
ucts		Nitrogen oxides (NOx)
		Chlorine compounds
		Fluorine compounds
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.
		Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do
		so. Evacuate area.
Special protective equipment for firefighters Hazchem Code	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. 2Z

Section 6: Accidental release measures



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tiv	ve equ	al precautions, protec- uipment and emer- procedures	:		ective equipment. ng advice (see section 7) and personal pro- recommendations (see section 8).
Er	nviror	nmental precautions	:	Retain and dispos	akage or spillage if safe to do so. e of contaminated wash water. hould be advised if significant spillages
		ls and materials for ment and cleaning up	:	over the area to m Add excess liquid Soak up with inert Clean up remainin bent. Local or national m posal of this mate employed in the c mine which regula Sections 13 and 1	a absorbents and place a damp covering inimise entry of the material into the air. to allow the material to enter into solution. absorbent material. In materials from spill with suitable absor- egulations may apply to releases and dis- rial, as well as those materials and items leanup of releases. You will need to deter- tions are applicable. 5 of this SDS provide information regarding tional requirements.

Section 7: Handling and storage

Technical measures Local/Total ventilation Advice on safe handling		See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section. Use only with adequate ventilation. Do not breathe dust, fume, gas, mist, vapours or spray. Do not swallow. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment.
Hygiene measures Conditions for safe storage	:	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. 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. Keep in properly labelled containers.
Conditions for sale storage	•	Neep in property labelled containers.

Materials to avoid



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		Store locked up Store in accord	ance with the particular national regulations.

Strong oxidizing agents

Section 8: Exposure controls/personal protection

	•					
Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis		
Polyvinyl chloride	9002-86-2	TWA (Res- pirable par- ticulate mat- ter)	1 mg/m3	ACGIH		
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		
Titanium dioxide	13463-67-7	WES-TWA	10 mg/m3	NZ OEL		
		TWA (Res-	2.5 mg/m3	ACGIH		
		pirable par-	(Titanium dioxide)			
		ticulate mat- ter)				

: Do not store with the following product types:

Components with workplace control parameters

Engineering measures :	Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., vacuum conveying from a closed system, packout head with inflatable seal from stationary container, ventilated enclosure, etc.). 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.
Personal protective equipment	t
Respiratory protection : Filter type : Hand protection	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Combined particulates and organic vapour type
Material :	Chemical-resistant gloves
Remarks : Eye protection :	Consider double gloving. Wear safety glasses with side shields or goggles.



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Skin	and body protection	 mists or aerosols Wear a faceshie potential for dire aerosols. Work uniform or Additional body task being perfo posable suits) to 	garments should be used based upon the rmed (e.g., sleevelets, apron, gauntlets, dis- avoid exposed skin surfaces. degowning techniques to remove potentially

Section 9: Physical and chemical properties

Appearance	:	solid
Colour	:	violet
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	Not applicable
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not classified as a flammability hazard
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	No data available



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So	lubility(ies) Water solubility	:	No data available	e
	rtition coefficient: n-	:	No data available	e
	anol/water to-ignition temperature	:	No data available	e
De	composition temperature	:	No data available	e
Vis	cosity Viscosity, kinematic	:	No data available	e
Ex	plosive properties	:	Not explosive	
Ox	idizing properties	:	The substance o	r mixture is not classified as oxidizing.
Мс	lecular weight	:	No data available	e
Pa	rticle size	:	No data available	e

Section 10: Stability and reactivity

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

Section 11: Toxicological information

Exposure routes	:	Skin contact Ingestion Eye contact
Acute toxicity Harmful if swallowed.		
Product:		
Acute oral toxicity	:	Acute toxicity estimate: 560 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Assessment: The substance or mixture has no acute inhala- tion toxicity
Acute dermal toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method



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Components:

2-(2-butoxyethoxy)ethyl 6-p Acute oral toxicity	rop :	ylpiperonyl ether: LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 423
Acute inhalation toxicity	:	LC50 (Rat): > 5.2 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403
Acute dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402
lambda-cyhalothrin (ISO):		
Acute oral toxicity	:	LD50 (Rat): 56 - 79 mg/kg
		LD50 (Mouse): 20 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): 0.06 mg/l Exposure time: 4 h Test atmosphere: dust/mist
Acute dermal toxicity	:	LD50 (Rat): 632 - 696 mg/kg
Acute toxicity (other routes of administration)	:	LD50 (Rat): 250 - 750 mg/kg Application Route: Intraperitoneal
Titanium dioxide:		
Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 6.82 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhala- tion toxicity
Skin corrosion/irritation		

Not classified based on available information.

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.



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lamb	da-cyhalothrin (ISO)):		
Spec Resu		:	Rabbit No skin irritation	
Titan	ium dioxide:			
Spec Resu		:	Rabbit No skin irritation	
	ous eye damage/eye			
Not c	lassified based on av	allable	information.	
Resu		:	No eye irritation	
<u>Com</u>	ponents:			
2-(2-k	outoxyethoxy)ethyl (6-prop	ylpiperonyl ether	:
Spec		:	Rabbit	
Resu Metho		:	Irritation to eyes, OECD Test Guid	reversing within 21 days eline 405
lamb	da-cyhalothrin (ISO)):		
Spec Resu		:	Rabbit Mild eye irritation	I
Titan	ium dioxide:			
Spec		:	Rabbit	
Resu	lt	:	No eye irritation	
Resp	iratory or skin sens	itisatio	on	
-	sensitisation			
Not c	lassified based on av	ailable	information.	
Docn	iratory consitisation			

Respiratory sensitisation

Not classified based on available information.

Components:

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

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



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	Test Ty	ure routes		Magnusson-Kligm Dermal Guinea pig Not a skin sensitiz	
	Test Ty	ure routes	:	Local lymph node Skin contact Mouse negative	assay (LLNA)
	Germ Not cla	ic toxicity cell mutagenicity ssified based on availa <u>onents:</u>	able	information.	
	-	utoxyethoxy)ethyl 6-p oxicity in vitro	rop :		ial reverse mutation assay (AMES)
		a-cyhalothrin (ISO): oxicity in vitro	:	Result: negative Test Type: Chrom Test system: Hum Result: negative Test Type: unschu Test system: rat h Result: negative Test Type: In vitro	eduled DNA synthesis assay
	Genoto	oxicity in vivo	:	Test Type: Micror Species: Mouse Cell type: Bone m Application Route Result: negative	arrow
		im dioxide: oxicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)



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Genoto	oxicity in vivo	: Test Type: In v Species: Mous Result: negativ	
	ogenicity		
Suspe	cted of causing cance	er if inhaled.	
Comp	onents:		
2-(2-bi	utoxyethoxy)ethyl 6	-propylpiperonyl eth	er:
Specie		: Rat	
	ation Route	: Ingestion	
Metho	ure time	: 107 weeks : OECD Test Gu	idalina 151
Result		: negative	
le ve h d		-	
	a-cyhalothrin (ISO):		
Specie	ation Route	: Mouse : oral (feed)	
	ure time	: 2 Years	
Result		: negative	
Remar	ks		from similar materials
Specie	S	: Rat	
	ation Route	: oral (feed)	
	ure time	: 2 Years	
Result		: negative	for a station of a static la
Remar	KS	: Based on data	from similar materials
Titaniı	um dioxide:		
Specie		: Rat	
	ation Route	: inhalation (dus	t/mist/fume)
	ure time	: 2 Years	
Metho		: OECD Test Gu	lideline 453
Result Remar		: positive : The mechanis	n or mode of action may not be relevant
Remai	NO	mans.	
Carcin ment	ogenicity - Assess-	: Limited eviden animals.	ce of carcinogenicity in inhalation studies

Not classified based on available information.

Components:

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

Effects on fertility : Test Type: Two-generation reproduction toxicity study



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Effects on foetal develop- ment	Species: Rat Application Route: Ingestion Result: negative : 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 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 Causes damage to organs (N	lervous system).
Components:	
2-(2-butoxyethoxy)ethyl 6- p Assessment	 propylpiperonyl ether: May cause respiratory irritation.
lambda-cyhalothrin (ISO): Target Organs Assessment	Nervous systemCauses damage to organs.
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STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

Exposure time

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

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

lambda-cyhalothrin (ISO):

Species NOAEL LOAEL Application Route Exposure time Symptoms	 Dog 2.5 mg/kg 12.5 mg/kg oral (feed) 90 d reduced body weight gain, reduced food consumption
Species NOAEL LOAEL Application Route Exposure time Target Organs	: 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 system
Species NOAEL LOAEL Application Route Exposure time Target Organs Symptoms	 Dog 0.1 mg/kg 0.5 mg/kg Oral 1 yr Nervous system Gastrointestinal disturbance, Vomiting, Convulsions, ataxia, Liver effects
Titanium dioxide: Species NOAEL Application Route	: Rat : 24,000 mg/kg : Ingestion

: 28 Days



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Speci		:	Rat	
	L cation Route sure time	:	10 mg/m3 inhalation (dust/m 2 yr	nist/fume)
•	ation toxicity assified based on avai	lable	information.	
Expe	rience with human ex	posi	ıre	
<u>Produ</u>	<u>uct:</u>			
Skin c	contact	:	tion, Local irritation	rritation, tingling, superficial burning sensa- on e absorbed through skin.
Eye c	Eye contact		Remarks: May irr	
Comp	oonents:			
lambo	da-cyhalothrin (ISO):			
Inhala Skin c	ation contact	:	Symptoms: Skin i tion, Local irritation	h, Local irritation, sneezing irritation, tingling, superficial burning sensa- on e absorbed through skin.
Eye c Ingest	ontact tion	:	Symptoms: Eye i	
ection 12	2: Ecological informa	tion		

Ecotoxicity

Components:

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

Toxicity to fish	:	LC50 (Cyprinodon variegatus (sheepshead minnow)): 3.94 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.51 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): 3.89 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		NOEC (Pseudokirchneriella subcapitata (green algae)): 0.824 mg/l Exposure time: 72 h Method: OECD Test Guideline 201



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M-Fac icity)	ctor (Acute aquatic tox-	:	1	
	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 ic invertebrates (Chron- icity)	:	NOEC (Daphnia i Exposure time: 2	nagna (Water flea)): 0.03 mg/l I d
M-Fac	ctor (Chronic aquatic	:	1	
	toxicity) Toxicity to microorganisms		EC50: > 1,000 mg Exposure time: 3 Method: OECD T	ĥ
lamb	da-cyhalothrin (ISO):			
Toxici	Toxicity to fish		Exposure time: 90 Method: OECD T	
			Exposure time: 90 Method: OECD T	
	ity to daphnia and other ic invertebrates	:	Exposure time: 48 Method: OECD T	
	ctor (Acute aquatic tox-	:	10,000	
icity) Toxici icity)	ity to fish (Chronic tox-	:	mg/l Exposure time: 32 Method: OECD T	
	ity to daphnia and other ic invertebrates (Chron- icity)	:	Exposure time: 2 Method: OECD T	
M-Fac toxicit	ctor (Chronic aquatic	:	10,000	
	ium dioxide:			
Toxici	ity to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): > 100 mg/l ን h



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			Method: OECD T	est Guideline 203
	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia n Exposure time: 4	nagna (Water flea)): > 100 mg/l 8 h
Toxici plants	ty to algae/aquatic	:	EC50 (Skeletone Exposure time: 7	ma costatum (marine diatom)): > 10,000 mg/l 2 h
Toxici	Toxicity to microorganisms		EC50: > 1,000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209	
Persi	stence and degradabil	ity		
Comp	oonents:			
	gradability	:	Result: Not readi Biodegradation: Exposure time: 2 Method: OECD T	0%
	cumulative potential			
	outoxyethoxy)ethyl 6-p	rop	ylpiperonyl ether	:
Partiti	on coefficient: n- ol/water	:	log Pow: 5	
	da-cyhalothrin (ISO): cumulation	:		factor (BCF): 2,240 Test Guideline 305
	on coefficient: n- ol/water	:	log Pow: 7.0 (20	°C)
Mobil	ity in soil			
Comp	oonents:			
Distrik menta	da-cyhalothrin (ISO): oution among environ- al compartments	:	log Koc: 5.5	
	adverse effects ta 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 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
		N.O.S.
		(2-(2-butoxyethoxy)ethyl 6-propylpiperonyl ether, lambda- cyhalothrin (ISO))
Class		9
Packing group		
Labels		9
Environmentally hazardous	÷	ves
•	•	,
UN/ID No.	:	UN 3077
Proper shipping name	:	Environmentally hazardous substance, solid, n.o.s.
		(2-(2-butoxyethoxy)ethyl 6-propylpiperonyl ether, lambda-
Class		cyhalothrin (ISO))
Class	÷	9
Packing group Labels	÷	III Miscellaneous
	÷	956
Packing instruction (cargo aircraft)	·	900
Packing instruction (passen-		956
ger aircraft)	·	950
Environmentally hazardous		ves
•	·	yes
IMDG-Code		
UN number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
		N.O.S.
		(2-(2-butoxyethoxy)ethyl 6-propylpiperonyl ether, lambda- cyhalothrin (ISO))
Class		9
Packing group	:	
Labels	:	9
EmS Code	÷	Б-А, S-F
Marine pollutant	÷	ves
	•	,



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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 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2-(2-butoxyethoxy)ethyl 6-propylpiperonyl ether, lambda- cyhalothrin (ISO))
Class	:	9
Packing group	:	III
Labels	:	9
Hazchem Code	:	2Z
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

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

Section 16: Other information

Revision Date	:	30.09.2023
Further information		
Sources of key data used to	:	Internal technical data, data from raw material SDSs, OECD



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compile the Safety Data Sheet		eChem Portal sea cy, http://echa.eu	arch results and European Chemicals Agen- ropa.eu/		
Date format :		dd.mm.yyyy			
Full text of other abbreviations					
ACGIH : NZ OEL :		USA. ACGIH Threshold Limit Values (TLV) New Zealand. Workplace Exposure Standards for Atmospher- ic Contaminants			

ACGIH / TWA :	•	8-hour, time-weighted average
NZ OEL / WES-TWA :	:	Workplace Exposure Standard - Time Weighted average
NZ OEL / WES-TWA :	:	Workplace Exposure Standard - Time Weighted average

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 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



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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.

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