

Version 10.0	Revision Date: 06.04.2024		S Number: 33940-00017		sue: 30.09.2023 sue: 02.12.2016	
Section	1: Identification					
Pro	duct name	:	Lambda-Cyhalot	hrin Liquid Forn	nulation	
Mai	nufacturer or supplier's d	letai	ils			
Cor	Company		MSD			
Ado	Address		33 Whakatiki Street - Private Bag 908 Upper Hutt - New Zealand			
Tele	ephone	:	0800 800 543			
Em	ergency telephone number	• :	0800 764 766 (08 CHEMCALL)	800 POISON)	0800 243 622 (0800	
E-m	nail address	:	EHSDATASTEW	/ARD@msd.cor	n	
Rec	commended use of the ch	nem	ical and restriction	ons on use		
	commended use strictions on use	:	Veterinary produ Not applicable	ct		

Section 2: Hazard identification

GHS Classification

Acute toxicity (Inhalation)	:	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)
Specific target organ toxicity - single exposure	:	Category 3
Specific target organ toxicity - repeated exposure	:	Category 2
Aspiration hazard	:	Category 1
Hazardous to the aquatic environment - acute hazard	:	Category 1
Hazardous to the aquatic environment - chronic hazard	:	Category 1



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GHS	label elements		
Hazar	rd pictograms		!
Signa	l word	: Danger	• •
Hazar	rd statements	H315 Causes H319 Causes H332 Harmful H335 May cau H371 May cau H373 May cau peated exposit	serious eye irritation. if inhaled. ise respiratory irritation. ise damage to organs (Nervous system). ise damage to organs through prolonged or re-
11664	utionary statements	P264 Wash sk P270 Do not e P271 Use only P273 Avoid re	preathe mist or vapours. an thoroughly after handling. eat, drink or smoke when using this product. and outdoors or in a well-ventilated area. lease to the environment. otective gloves/ eye protection/ face protection.
		CENTER/ doc P302 + P352 I P304 + P340 - and keep com doctor if you fe P305 + P351 - for several mir easy to do. Co P308 + P311 I CENTER/ doc P331 Do NOT P332 + P313 I tion. P337 + P313 I tention.	 IF ON SKIN: Wash with plenty of water. + P312 IF INHALED: Remove person to fresh a fortable for breathing. Call a POISON CENTER eel unwell. + P338 IF IN EYES: Rinse cautiously with wate nutes. Remove contact lenses, if present and ontinue rinsing. IF exposed or concerned: Call a POISON tor. Induce vomiting. If skin irritation occurs: Get medical advice/ attended for the set of the se





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P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification None known.

Section 3: Composition/information on ingredients

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
1,2,4-Trimethylbenzene	95-63-6	>= 90 -<= 100
lambda-cyhalothrin (ISO)	91465-08-6	>= 2.5 -< 10

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
If inhaled	:	advice. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. 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. If vomiting occurs have person lean forward. Call a physician or poison control centre immediately. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	Never give anything by mouth to an unconscious person. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. May cause damage to organs. May cause damage to organs through prolonged or repeated
Protection of first-aiders	:	exposure. 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).





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Note	s to physician	:	Treat symptomati	cally and supportively.	
Section 5	5: Fire-fighting measure	S			
Suita	ble extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical		
Unsı medi	uitable extinguishing	:	None known.		
	ific hazards during fire-	:	Exposure to comb	pustion products may be a hazard to health.	
	ardous combustion prod-	:	: Carbon oxides Nitrogen oxides (NOx) Chlorine compounds Fluorine compounds		
Spec ods	Specific extinguishing meth- ods		cumstances and t Use water spray t Remove undama so.	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do	
for fi	cial protective equipment refighters chem Code	:	 Evacuate area. In the event of fire, wear self-contained breathing apparatus Use personal protective equipment. 3Z 		
Section 6	: Accidental release me	eas	ures		
tive e	onal precautions, protec- equipment and emer- y procedures	:	Follow safe handl	ective equipment. ing advice (see section 7) and personal pro- recommendations (see section 8).	
Envir	Environmental precautions :		Prevent spreading barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g. by containment or oil se of contaminated wash water. should be advised if significant spillages	

Methods and materials for containment and cleaning up	:	Soak up with inert absorbent material. For large spills, provide dyking or other appropriate contain- ment 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 absor- bent. Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items
		employed in the cleanup of releases. You will need to deter- mine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding



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			certain local or na	ational requirements.	
Section 7	: Handling and storage	е			
Tech	nical measures	:		measures under EXPOSURE RSONAL PROTECTION section.	
Loca	I/Total ventilation	:		ation is unavailable, use with local exhaust	
Advid	ce 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. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Keep container tightly closed. Already sensitised individuals, and those susceptible to asthma, allergies, chronic or recurrent respiratory disease, should consult their physician regarding working with respiratory irritants or sensitisers. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the 		
Hygi	ene measures	:	flushing systems place. When using do n Wash contamina The effective ope engineering contr appropriate dego	emical is likely during typical use, provide eye and safety showers close to the working ot eat, drink or smoke. ted clothing before re-use. eration of a facility should include review of rols, proper personal protective equipment, wning and decontamination procedures, e monitoring, medical surveillance and the tive controls.	
Conc	litions for safe storage	:	Keep in properly Store locked up. Keep tightly close Keep in a cool, w	labelled containers.	
Mate	rials to avoid	:		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
1,2,4-Trimethylbenzene	95-63-6	WES-TWA	25 ppm 123 mg/m3	NZ OEL



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1		TWA	10 ppm	ACGIH	
lambda-cyhalothrin (ISO)	91465-08-6	TWA	5 µg/m3 (OEB 4)	Internal	
	Further inform	ation: 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 poten- tial exists for aerosolization. If this potential does not exist, handle over lined trays or benchtops.				
Personal protective equipmen	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-resi	stant gloves			
Remarks:Eye protection:Skin and body protection:	If the work en mists or aeros Wear a faces potential for d aerosols. Work uniform Additional boo task being pe posable suits)	lasses with side vironment or act sols, wear the ap hield or other full irect contact to t or laboratory co dy garments sho formed (e.g., sle to avoid expose ate degowning te	shields or goggles. ivity involves dusty c propriate goggles. I face protection if the he face with dusts, m at. uld be used based u eevelets, apron, gaur ed skin surfaces. echniques to remove	ere is a hists, or pon the htlets, dis-	

Section 9: Physical and chemical properties

Appearance	:	liquid
Colour	:	off-white
Odour	:	solvent-like
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available

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	Initial bo range	oiling point and boiling	:	> 100 °C	
	Flash p	oint	:	> 100 °C	
	Evapora	ation rate	:	No data available	
	Flamma	ability (solid, gas)	:	Not applicable	
	Flamma	ability (liquids)	:	No data available	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapour	pressure	:	No data available	
	Relative	e vapour density	:	No data available	
	Relative	e density	:	No data available	
	Density		:	1.036 g/cm ³	
	Solubili Wate	ty(ies) er solubility	:	dispersible	
	Partition octanol	n coefficient: n-	:	No data available	,
		nition temperature	:	No data available	•
	Decom	position temperature	:	No data available	•
	Viscosit Visc	ty osity, kinematic	:	No data available	
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance or	mixture is not classified as oxidizing.
	Molecu	lar weight	:	Not applicable	
	Particle Particle	characteristics size	:	Not applicable	

Section 10: Stability and reactivity

Reactivity

: Not classified as a reactivity hazard.





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Possil tions Condi Incom	ical stability bility of hazardous reac- tions to avoid patible materials dous decomposition cts	:	Can react with None known. Oxidizing agen	ormal conditions. strong oxidizing agents. ts decomposition products are known.
ection 11	I: Toxicological inform	atic	n	
Expos	sure routes	:	Inhalation Skin contact Ingestion Eye contact	
	e toxicity ful if inhaled.			
<u>Produ</u> Acute	<u>uct:</u> oral toxicity	:	LD50 (Rat): > 5	,000 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 4.62 mg/l Exposure time: 4 h	
Acute	dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg	
<u>Comp</u>	oonents:			
1,2,4-	Trimethylbenzene:			
Acute	oral toxicity	:	LD50 (Rat): 3,22	80 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 1 Exposure time: Test atmospher Remarks: Base	4 h
Acute	dermal toxicity	:	LD50 (Rat): > 3	,160 mg/kg
lambo	da-cyhalothrin (ISO):			
	oral toxicity	:	LD50 (Rat): 56 ·	- 79 mg/kg
			LD50 (Mouse):	20 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): 0.00 Exposure time: Test atmospher	4 h
Acute	dermal toxicity	:	LD50 (Rat): 632	2 - 696 mg/kg
	toxicity (other routes of istration)	:) - 750 mg/kg te: Intraperitoneal



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01 :	· · · · · · · · · · · · · · · · · · ·			
	corrosion/irritation			
Prod	uct:			
Spec	ies	:	Rabbit	
Resu	llt	:	irritating	
<u>Com</u>	ponents:			
1,2,4	-Trimethylbenzene:			
Spec		:	Rabbit	
Resu Rema		:	Skin irritation Based on data fro	om similar materials
		•		
lamb	da-cyhalothrin (ISO):			
Spec		:	Rabbit	
Resu	lit	:	No skin irritation	
	bus eye damage/eye iri es serious eye irritation. uct:		ion	
Spec	ies	:	Rabbit	
Resu	llt	:	Mild eye irritation	
<u>Com</u>	ponents:			
1,2,4	-Trimethylbenzene:			
Resu Rema		:		reversing within 21 days I or regional regulation.
lamb	da-cyhalothrin (ISO):			
Spec	ies	:	Rabbit	
Resu	llt	:	Mild eye irritation	
Resp	piratory or skin sensiti	satio	on	
-	sensitisation lassified based on avail	able	information.	
-	biratory sensitisation classified based on avail	able	information.	
Prod		-		
Spec		:	Rabbit	
Resu		:	Weak sensitizer	



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Components:

1,2,4-Trimethylbenzene:		
Test Type	:	Maximisation Test
Exposure routes	:	Skin contact
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Test Type Exposure routes Species Method Result	:	negative

lambda-cyhalothrin (ISO):

Test Type	: Magnusson-Kligman-Test
Exposure routes	: Dermal
Species Result	: Guinea pig
Result	: Not a skin sensitizer.

Chronic toxicity

Germ cell mutagenicity

Not classified based on available information.

Components:

1,2,4-Trimethylbenzene:

Genotoxicity in vitro :	 Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Test Type: Mutagenicity (in vitro mammalian cytogenetic test) Result: negative Remarks: Based on data from similar materials
Genotoxicity in vivo :	Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Result: negative Remarks: Based on data from similar materials
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

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			Test Type: uns Test system: ra Result: negativ	
				itro mammalian cell gene mutation test ouse lymphoma cells e
Genc	otoxicity in vivo	:	Test Type: Mic Species: Mous Cell type: Bone Application Rou Result: negativ	e marrow ute: Intraperitoneal
	inogenicity			
	lassified based on ava ponents:	ailable	information.	
	da-cyhalothrin (ISO)	:		
Spec	ies	:	Mouse	
Appli	cation Route sure time	:	oral (feed)	
Expo Resu	isure time It	:	2 Years negative	
Rema		:		from similar materials
Spec	ies	:	Rat	
Appli	cation Route sure time	:	oral (feed)	
Expo Resu	sure time	:	2 Years negative	
Rema	arks	:		from similar materials
Repr	oductive toxicity			
	lassified based on ava	ailable	information.	
<u>Com</u>	ponents:			
1,2,4	-Trimethylbenzene:			
Effec	ts on fertility	:	Species: Rat Application Rou Result: negativ	ee-generation reproduction toxicity stud ute: inhalation (vapour) e ed on data from similar materials
Effec	ts on foetal develop-	:	Test Type: Em	oryo-foetal development
ment		•	Species: Rat	
				ute: inhalation (vapour) Test Guideline 414
			Result: negativ	
11				

lambda-cyhalothrin (ISO):

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UF#			Tool Turon Thur	
Eneci	s on fertility	:	Species: Rat Application Rou General Toxicit General Toxicit Symptoms: Rec Result: No effect	 Parent: NOAEL: 2 mg/kg body weight F1: LOAEL: 6.7 mg/kg body weight luced offspring weight gain
Effect	s on foetal develop-	:	Developmental Result: No effect body weight gai Remarks: Base Test Type: Dev Species: Rabbin Application Rou General Toxicit Developmental Result: No effect body weight gai	te: Oral / Maternal: NOAEL: 10 mg/kg body weight Toxicity: LOAEL: 15 mg/kg body weight ets on foetal development, Reduced materna n, Reduced foetal weight d on data from similar materials
May o	- single exposure cause respiratory irritati cause damage to organ		ervous system).	
Com	ponents:		- /	
1, 2,4 -	Trimethylbenzene:	:	May cause resp	iratory irritation.
lamb	da-cyhalothrin (ISO):			
	et Organs ssment	:	Nervous system Causes damage	
A3363				
STOT	- repeated exposure cause damage to organ		ough prolonged o	r repeated exposure.
STOT May o			ough prolonged o	or repeated exposure.
STOT May o <u>Com</u>	cause damage to organ		ough prolonged o	or repeated exposure.
STOT May o <u>Com</u> 1,2,4-	cause damage to orgar conents:			or repeated exposure. age to organs through prolonged or repeate



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-	eated dose toxicity		
	ponents:		
Speci NOAI Applie	EL cation Route sure time od arks		Guideline 408 ta from similar materials
NOAI Appli		: 1230 mg/m3 : inhalation (va : 90 Days	
Speci NOAI LOAE Applie	EL EL cation Route sure time	: Dog : 2.5 mg/kg : 12.5 mg/kg : oral (feed) : 90 d	y weight gain, reduced food consumption
Expo	EL	: Rat : 10 mg/kg : 50 mg/kg : Dermal : 21 d : Nervous sys	tem
Expo	EL	: Rat : 0.08 mg/kg : 0.9 mg/kg : Inhalation : 21 d : Nervous sys	tem
Expo Targe	EL	 Dog 0.1 mg/kg 0.5 mg/kg Oral 1 yr Nervous sys Gastrointesti Liver effects 	tem inal disturbance, Vomiting, Convulsions, ataxia,

Aspiration toxicity

May be fatal if swallowed and enters airways.



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Product:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Components:

1,2,4-Trimethylbenzene:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Experience with human exposure

Product:

Inhalation	:	Symptoms: Respiratory disorder, Central nervous system depression
Skin contact	:	Symptoms: tingling, Itching, Burn, Skin irritation
Eye contact	:	Symptoms: Eye irritation
Ingestion	:	Symptoms: Gastrointestinal disturbance, Breathing difficulties
Components:		
lambda-cyhalothrin (ISO)	:	

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

Section 12: Ecological information

Ecotoxicity

Components:

1,2,4-Trimethylbenzene:

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 7.72 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 3.6 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EC50 (Desmodesmus subspicatus (green algae)): 2.356 mg/l Exposure time: 96 h
Ecotoxicology Assessment Chronic aquatic toxicity	:	Toxic to aquatic life with long lasting effects.

lambda-cyhalothrin (ISO):

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Toxici	ty to fish	:	Exposure time: 9 Method: OECD T Remarks: Based LC50 (Lepomis n Exposure time: 9	est Guideline 203 on data from similar materials nacrochirus (Bluegill sunfish)): 0.00021 mg/
Toxici	ty to daphnia and other	:		on data from similar materials nagna (Water flea)): 0.00004 mg/l
	ic invertebrates		Exposure time: 4 Method: OECD T	
	ctor (Acute aquatic tox-	:	10,000	
icity) Toxici icity)	ty to fish (Chronic tox-	:	mg/l Exposure time: 3 Method: OECD T	les promelas (fathead minnow)): 0.000062 2 d Fest Guideline 210 on data from similar materials
	ty to daphnia and other ic invertebrates (Chron- city)	:	Exposure time: 2 Method: OECD T	magna (Water flea)): 0.0035 µg/l 1 d ēst Guideline 211 on data from similar materials
M-Fac toxicit	ctor (Chronic aquatic y)	:	10,000	
Persi	stence and degradabili	ty		
<u>Comp</u>	oonents:			
	Trimethylbenzene: gradability	:	Result: Readily b Biodegradation: Exposure time: 2	60 %
Bioac	cumulative potential			
Comp	oonents:			
	da-cyhalothrin (ISO):			
Bioac	cumulation	:		factor (BCF): 2,240 Test Guideline 305
	on coefficient: n- ol/water	:	log Pow: 7.0 (20	°C)



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C la D m O N	lobility in soil omponents: ambda-cyhalothrin (ISO): istribution among environ- mental compartments other adverse effects o data available	: log Koc: 5.5	
Sectio	on 13: Disposal considerat	ons	
W	isposal methods /aste from residues ontaminated packaging	Dispose of in acc Empty containers dling site for recy	f waste into sewer. ordance with local regulations. s should be taken to an approved waste han- cling or disposal. pecified: Dispose of as unused product.
Sectio	on 14: Transport information	on	
	nternational Regulations		
U	NRTDG N number roper shipping name	: UN 3082 : ENVIRONMENT N.O.S. (lambda-cyhaloti	ALLY HAZARDOUS SUBSTANCE, LIQUID,
P: La	lass acking group abels nvironmentally hazardous	: 9 : III : 9 : yes	
U P C	ATA-DGR N/ID No. roper shipping name lass	(lambda-cyhalot : 9	hazardous substance, liquid, n.o.s. hrin (ISO))
La Pa	acking group abels acking instruction (cargo ircraft)	: III : Miscellaneous : 964	
ge	acking instruction (passen- er aircraft) nvironmentally hazardous	: 964 : yes	
U	IDG-Code N number roper shipping name	: UN 3082 : ENVIRONMENT N.O.S. (lambda-cyhaloth	ALLY HAZARDOUS SUBSTANCE, LIQUID,
С	lass	: 9	
		16 / 19	





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Packing Labels EmS Co Marine p		: :	III 9 F-A, S-F yes	
-	ort in bulk according licable for product as	-		OL 73/78 and the IBC Code
Nationa	I Regulations			
NZS 54 : UN num Proper s		:	N.O.S.	ALLY HAZARDOUS SUBSTANCE, LIQUID,
Class Packing Labels Hazcher Marine p		:	(lambda-cyhaloth 9 III 9 3Z no	inn (ISO))
Special	precautions for use	r		

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
U	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 be document by two vertical lines		made to the previous version are highlighted in the body of this	
Date format	:	dd.mm.yyyy	
Full text of other abbreviatio	ns		
ACGIH NZ OEL	:	USA. ACGIH Threshold Limit Values (TLV) New Zealand. Workplace Exposure Standards for Atmospher- ic Contaminants	
ACGIH / TWA NZ OEL / WES-TWA	:	8-hour, time-weighted average 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 Recom-





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mendations 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 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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