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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Lambda-Cyhalothrin / Piperonyl Butoxide Formulation				
Manufacturer or supplier's o	Manufacturer or supplier's details					
Company name of supplier	:	-				
Address	·	126 E. Lincoln Avenue Rahway, New Jersey U.S.A. 07065				
Telephone	:	908-740-4000				
Emergency telephone	:	1-908-423-6000				
E-mail address	:	EHSDATASTEWARD@msd.com				
Recommended use of the chemical and restrictions on use						
Recommended use	:	Veterinary product				
Restrictions on use	:	Not applicable				

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Acute toxicity (Oral)	:	Category 4
Acute toxicity (Inhalation)	:	Category 5
Acute toxicity (Dermal)	:	Category 5
Skin corrosion/irritation	:	Category 2
Serious eye damage/eye irritation	:	Category 2B
Specific target organ toxicity - single exposure	:	Category 1 (Nervous system)
GHS label elements Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	H302 Harmful if swallowed. H313 + H333 May be harmful in contact with skin or if inhaled. H315 + H320 Causes skin and eye irritation. H370 Causes damage to organs (Nervous system).
Precautionary Statements	:	Prevention: P260 Do not breathe mist or vapors. P264 Wash skin thoroughly after handling.



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		P270 Do not ea P280 Wear prot	t, drink or smoke when using this product. tective gloves.
		CENTER or doc P302 + P352 IF P304 + P312 IF physician if you P305 + P351 + for several minu to do. Continue P308 + P311 IF CENTER/ docto P332 + P313 If tion. P337 + P313 If tion.	P338 IF IN EYES: Rinse cautiously with water utes. Remove contact lenses, if present and eas rinsing. exposed or concerned: Call a POISON
		Storage: P405 Store lock	ked up.
		Disposal: P501 Dispose c posal plant.	of contents/ container to an approved waste dis
•	r hazards known.		

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
2-(2-Butoxyethoxy)ethyl 6-propylpiperonyl ether	51-03-6	>= 5 -< 10
lambda-cyhalothrin (ISO)	91465-08-6	>= 1 -< 5

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. 	
If inhaled In case of skin contact	 If inhaled, remove to fresh air. Get medical attention. 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. 	



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In case of eye contact		Thoroughly cle : In case of cont for at least 15 If easy to do, r	Wash clothing before reuse. Thoroughly clean shoes before reuse. 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, E so by medical Get medical at Rinse mouth th	If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. Get medical attention. Rinse mouth thoroughly with water.		
Most important symptoms and effects, both acute and delayed		: Harmful if swa May be harmfu Causes skin a	Never give anything by mouth to an unconscious person. Harmful if swallowed. May be harmful in contact with skin or if inhaled. Causes skin and eye irritation. Causes damage to organs.		
Protection of first-aiders Notes to physician		: First Aid respo and use the re when the poter	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). 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 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 fire-fighters	:	

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective 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).



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			ose of contaminated wash water. should be advised if significant spillages ined.
Methods and materials for containment and cleaning up		For large spills, containment to k can be pumped, container. Clean up remain absorbent. Local or nationa disposal of this r employed in the determine which Sections 13 and	ert absorbent material. provide diking or other appropriate seep material from spreading. If diked material store recovered material in appropriate ning materials from spill with suitable I regulations may apply to releases and material, as well as those materials and items cleanup of releases. You will need to regulations are applicable. 15 of this SDS provide information regarding national requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation Advice on safe handling	:	Use only with adequate ventilation. Do not get on skin or clothing. Do not breathe mist or vapors. 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 Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the
Hygiene measures	:	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. 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.
Conditions for safe storage	:	Keep in properly labeled containers. Store locked up. Store in accordance with the particular national regulations.
Materials to avoid	:	Do not store with the following product types: Strong oxidizing agents Self-reactive substances and mixtures Organic peroxides Explosives Gases



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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients 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 : Filter type :	If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection. Combined particulates and organic vapor type
Hand protection	
Material :	Chemical-resistant gloves
Remarks : Eye protection : Skin and body protection :	Consider double gloving. 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. Work uniform or laboratory coat
Skin and body protection :	Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid

Color : clear, light yellow



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	Odor		:	mild, oily	
	Odor Th	nreshold	:	No data available	•
	рН		:	6.16	
	Melting	point/freezing point	:	No data available	
	Initial bo range	biling point and boiling	:	No data available	
	Flash p	oint	:	105.5 °C	
	Evapora	ation rate	:	No data available	
	Flamma	ability (solid, gas)	:	Not applicable	
	Flamma	ability (liquids)	:	Not applicable	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapor p	pressure	:	No data available	
	Relative	e vapor density	:	No data available	
	Relative	e density	:	0.9326	
	Density		:	No data available	
	Solubilit Wate	ty(ies) er solubility	:	No data available	
	Partitior octanol/	n coefficient: n-	:	No data available	
		ition temperature	:	No data available	
	Decomp	position temperature	:	No data available	
	Viscosit Visc	y osity, kinematic	:	No data available	
	Explosiv	ve properties	:	Not explosive	
	Oxidizir	ig properties	:	The substance or	mixture is not classified as oxidizing.
	Molecul	ar weight	:	Not applicable	
	Particle	size	:	Not applicable	



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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

Information on likely route Inhalation Skin contact Ingestion Eye contact Acute toxicity Harmful if swallowed. May be harmful in contact w		
Product:		
Acute oral toxicity	:	LD50 (Rat): 2,000 mg/kg
		TDLo (Rat): 300 mg/kg Remarks: No mortality observed at this dose.
Acute inhalation toxicity	:	Acute toxicity estimate: 6 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Acute dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg
Components:		
2-(2-Butoxyethoxy)ethyl 6	-prop	ylpiperonyl ether:
Acute oral toxicity	:	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):



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Í	Acute	oral toxicity	:	LD50 (Rat): 56 - 7	′9 mg/kg
				LD50 (Mouse): 20) mg/kg
	Acute i	nhalation toxicity	:	LC50 (Rat): 0.06 Exposure time: 4 Test atmosphere:	h
	Acute	dermal toxicity	:	LD50 (Rat): 632 -	696 mg/kg
		toxicity (other routes of stration)	:	LD50 (Rat): 250 - Application Route	
-		orrosion/irritation s skin irritation.			
	Produce Specie Result	S	:	Rabbit irritating	
	Comp	onents:			
	2-(2-B	utoxyethoxy)ethyl 6-p	rop	ylpiperonyl ether:	
	Specie	S	:	Rabbit	
	Methoo Result	t.	:	OECD Test Guide No skin irritation	eline 404
I	Assess	sment	:	Repeated exposu	re may cause skin dryness or cracking.
	lambd	a-cyhalothrin (ISO):			
	Specie Result	S	:	Rabbit No skin irritation	
		is eye damage/eye irri	tati	on	
		s eye irritation.			
	Produe Specie	S	:	Rabbit Mild ave irritation	
	Result		•	Mild eye irritation	
	Comp	onents:			
	2-(2-B	utoxyethoxy)ethyl 6-p	rop	ylpiperonyl ether:	
	Specie	S	:	Rabbit	
	Result Method	t	:	OECD Test Guide	reversing within 21 days eline 405
	lambd	a-cyhalothrin (ISO):			
	Specie		:	Rabbit	
	Result		:	Mild eye irritation	



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Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Product:

Test Type Routes of exposure Assessment Result	: : :	Local lymph node assay (LLNA) Dermal Does not cause skin sensitization. negative
Test Type Routes of exposure Result	:	Magnusson-Kligman-Test Dermal Not a skin sensitizer.

Components:

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

Test Type	: Maximization Test
Routes of exposure	: Skin contact
Species	: Guinea pig
Method	: OECD Test Guideline 406
Test Type Routes of exposure Species Method Result	: negative

lambda-cyhalothrin (ISO):

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

Germ cell mutagenicity

Not classified based on available information.

Components:

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

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



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		Test system: Result: nega Test Type: Ir Test system:	n vitro mammalian cell gene mutation test mouse lymphoma cells
Genot	toxicity in vivo	Species: Mo Cell type: Bo	licronucleus test use ne marrow Route: Intraperitoneal
	nogenicity lassified based on ava	ilable information.	
<u>Com</u> r	oonents:		
2-(2-E	Butoxyethoxy)ethyl 6	-propylpiperonyl e	ther:
Speci	es	: Rat	
	cation Route	: Ingestion	
	sure time	: 107 weeks	
Metho Resul		: negative	Guideline 451
lambo	da-cyhalothrin (ISO)		
Speci	es	: Mouse	
	cation Route	: oral (feed)	
	sure time	: 2 Years : negative	
	-		ta from similar materials
Resul Rema			
Rema Speci		: Rat	
Rema Speci Applic	cation Route	: oral (feed)	
Rema Speci Applic	cation Route sure time		

Effects on fertility	:	Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Ingestion Result: negative
Effects on fetal development	:	Test Type: Embryo-fetal development Species: Rat



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		Application Route: Ingestion Result: negative
	da-cyhalothrin (ISO): is 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
Effect	s on fetal development	 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 fetal development., Reduced maternal body weight gain., Reduced fetal 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 fetal development., Reduced maternal body weight gain., Reduced fetal weight. Remarks: Based on data from similar materials
	-single exposure	
	es damage to organs (N conents:	nvous system).
	Butoxyethoxy)ethyl 6-p	opylpiperonyl ether:
Asses	ssment	: May cause respiratory irritation.
lambo	da-cyhalothrin (ISO):	
Targe Asses	et Organs ssment	Nervous systemCauses damage to organs.
	-repeated exposure lassified based on availa	ble information.
Repe	ated dose toxicity	
Com	oonents:	
2-(2-E	Butoxyethoxy)ethyl 6-p	opylpiperonyl ether:
Speci		: Rat

Species : Rat



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	EL cation Route sure time	: 1,323 mg/kg : Ingestion : 7 Weeks	
lambo	da-cyhalothrin (ISO):		
Speci NOAE LOAE Applic	es EL EL cation Route sure time	: Dog : 2.5 mg/kg : 12.5 mg/kg : oral (feed) : 90 d : reduced body v	weight gain, reduced food consumption
Expos	EL	: Rat : 10 mg/kg : 50 mg/kg : Dermal : 21 d : Nervous syster	n
Expos	EL	: Rat : 0.08 mg/kg : 0.9 mg/kg : Inhalation : 21 d : Nervous system	m
Expos	EL EL sution Route sure time to Organs	 Dog 0.1 mg/kg 0.5 mg/kg Oral 1 y Nervous system Gastrointestination Liver effects 	m Il disturbance, Vomiting, Convulsions, ataxia,
Not cl	ation toxicity assified based on avail		
Expe	rience with human ex	posure	
<u>Comp</u>	oonents:		

lambda-cyhalothrin (ISO):

Inhalation Skin contact	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	Symptoms: Eye irritation
Eye contact Ingestion	Symptoms: Gastrointestinal disturbance



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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

2-(2-Butoxyethoxy)ethyl 6-p	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			
Toxicity to fish (Chronic tox- icity)	:	NOEC (Pimephales promelas (fathead minnow)): 0.18 mg/l Exposure time: 35 d			
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC (Daphnia magna (Water flea)): 0.03 mg/l Exposure time: 21 d			
Toxicity to microorganisms	:	EC50: > 1,000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209			

lambda-cyhalothrin (ISO):

Toxicity to fish :	LC50 (Oncorhynchus mykiss (rainbow trout)): 0.00019 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: Based on data from similar materials
	LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.00021 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: Based on data from similar materials
Toxicity to daphnia and other : aquatic invertebrates	EC50 (Daphnia magna (Water flea)): 0.00004 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: Based on data from similar materials



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Toxic icity)	to fish (Chronic tox-	:	mg/l Exposure time: 3 Method: OECD T	es promelas (fathead minnow)): 0.000062 2 d est Guideline 210 on data from similar materials
	tic invertebrates (Chron-		Exposure time: 2 Method: OECD T	
Pers	istence and degradabil	ity		
<u>Com</u>	ponents:			
2-(2-	Butoxyethoxy)ethyl 6-p	rop	ylpiperonyl ether	:
Biode	egradability	:	Result: Not readil Biodegradation: Exposure time: 2 Method: OECD T	0%
Bioa	ccumulative potential			
<u>Com</u>	ponents:			
2-(2-	Butoxyethoxy)ethyl 6-p	rop	ylpiperonyl ether	:
	tion coefficient: n- nol/water		log Pow: 5	
	da-cyhalothrin (ISO):			
Bioad	ccumulation	:		factor (BCF): 2,240 est Guideline 305
	tion coefficient: n- nol/water	:	log Pow: 7.0 (20	°C)
Mobi	ility in soil			
<u>Com</u>	ponents:			
Distri	da-cyhalothrin (ISO): bution among environ- al compartments	:	log Koc: 5.5	
	r adverse effects ata available			
SECTION	13. DISPOSAL CONSIL	DEF	ATIONS	
Diam	osal mothoda			
-	osal methods e from residues		Dispose of in acc	ordance with local regulations.
11		•	Do not dispose of	waste into sewer.
Cont	aminated nackaging	•	Empty containors	should be taken to an annroved waste



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		If not otherwis	se specified: Dispose of as unused product.
ECTION	14. TRANSPORT INFO	ORMATION	
Interr	national Regulations		
UNRT	ſDG		
	umber	: UN 3082	
Prope	er shipping name	N.O.S.	NTALLY HAZARDOUS SUBSTANCE, LIQUID http://www.ethoxy.ethyle.propylpiperonylether, lambda-
		cyhalothrin (IS	SO))
Class		: 9	
Label	ng group	: III : 9	
		. 9	
UN/IE Prope	r shipping name		Illy hazardous substance, liquid, n.o.s. ethoxy)ethyl 6-propylpiperonyl ether, lambda- SO))
Class		: 9	<i>''</i>
	ng group	: 111	
Label		: Miscellaneous	3
aircra	ng instruction (cargo ft) ng instruction (passen-	: 964 : 964	
ger ai		: yes	
	-Code	,	
	umber	: UN 3082	
	r shipping name	: ENVIRONME N.O.S. (2-(2-Butoxye	NTALLY HAZARDOUS SUBSTANCE, LIQUID
Class		cyhalothrin (IS	SO))
Class Packi	ng group	: 9 : III	
Label		: 9	
EmS		: F-A, S-F	
Marin	e pollutant	: yes	
Trans	port in bulk accordin	a to Annex II of MA	ARPOL 73/78 and the IBC Code
	oplicable for product as	-	
Dome	estic regulation		
NOM	-002-SCT		
	umber	: UN 3082	
Prope	er shipping name	: ENVIRONME N.O.S.	NTALLY HAZARDOUS SUBSTANCE, LIQUID
			ethoxy)ethyl 6-propylpiperonyl ether, lambda-
Class		: 9	//
	ng group	: 111	



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Labels

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

NOM-165-SEMARNAT-2013, Norm establishing a list of substances subject to report for the Registry of Emissions and Pollutant Transfer					
Components	CAS-No.	MPU (kg/year)	Transfer/Release (kg/year)		

lambda-cyhalothrin (ISO) 91465-08-6 2500 kg/year 100 kg/year

MPU: Applicable reporting threshold when the substance, pure or in mixture in a composition of more than 1% by weight, is used for industrial activities at facilities that are subject to report or are produced by them

Federal Law for the control of chemical precursors, : Not applicable essential chemical products and machinery for producing capsules, tablets and pills.

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

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

SECTION 16. OTHER INFORMATION

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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



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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

Sources of key data used to	:	Internal technical data, data from raw material SDSs, OECD
compile the Material Safety		eChem Portal search results and European Chemicals Agen-
Data Sheet		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.

The information is considered as correct, but not exhaustive, and will be used only as a guide, which is based in the current knowledge of the substance or mixture, and is applicable to proper safety precautions for the product.

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