

Version 5.0	Revision Date: 28.09.2024		lumber: 47-00019	Date of last issue: 30.09.2023 Date of first issue: 01.03.2017			
SECTION	SECTION 1. IDENTIFICATION						
Prod	Product identifier		Lambda-Cyhalothrin / Piperonyl Butoxide Formulation				
<b>Manufacturer or supplier's d</b> Company			SD				
Address			Rua Coronel Bento Soares, 530 Cruzeiro - Sao Paulo - Brazil CEP 12730-340				
Telep	Telephone		908-740-4000				
Eme	Emergency telephone		1-908-423-6000				
E-ma	E-mail address :		EHSDATASTEWARD@msd.com				
	ommended use of the						
Recommended use Restrictions on use			eterinary prod ot applicable	uct			

#### **SECTION 2. HAZARDS IDENTIFICATION**

GHS Classification in accordance with ABNT NBR 14725 StandardAcute toxicity (Oral): Category 4					
Acute toxicity (Inhalation)	:	Category 5			
Acute toxicity (Dermal)	:	Category 5			
Skin irritation	:	Category 2			
Eye irritation	:	Category 2B			
Specific target organ toxicity - single exposure	:	Category 2 (Nervous system)			
Short-term (acute) aquatic hazard	:	Category 1			
Long-term (chronic) aquatic hazard	:	Category 1			

#### GHS label elements in accordance with ABNT NBR 14725 Standard



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Hazaı	rd pictograms		
Signa	l Word	: Warning	
Hazaı	rd Statements	H315 + H320 C H371 May caus	f swallowed. Aay be harmful in contact with skin or if inhaled. Causes skin and eye irritation. Se damage to organs (Nervous system). c to aquatic life with long lasting effects.
Preca	utionary Statements		at, drink or smoke when using this product. ease to the environment. tective gloves.
		CENTER/ doctor P302 + P312 IF you feel unwell P302 + P352 IF P304 + P312 IF you feel unwell P305 + P351 + for several mini- easy to do. Cor P308 + P311 IF CENTER/ doctor P332 + P313 If tion. P337 + P313 If tention.	<ul> <li>ON SKIN: Wash with plenty of water.</li> <li>INHALED: Call a POISON CENTER/ doctor if</li> <li>P338 IF IN EYES: Rinse cautiously with water utes. Remove contact lenses, if present and ntinue rinsing.</li> <li>exposed or concerned: Call a POISON or.</li> <li>skin irritation occurs: Get medical advice/ atteneye irritation persists: Get medical advice/ at-ake off contaminated clothing and wash it before</li> </ul>
		<b>Storage:</b> P405 Store loc	ked up.

Other hazards which do not result in classification

None known.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Classification	Concentration (% w/w)
2-(2-Butoxyethoxy)ethyl 6-	51-03-6	Eye Irrit., 2A	>= 5 -< 10



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propy	lpiperonyl ether		STOT SE, 3 Aquatic Acute, 1 Aquatic Chronic, 1	
lambo	da-cyhalothrin (ISO)	91465-08-6	Acute Tox. (Oral), 3 Acute Tox. (Inhala- tion), 2 Acute Tox. (Dermal), 3 Eye Irrit., 2B STOT SE, (Nervous system), 1 Aquatic Acute, 1 Aquatic Chronic, 1	>= 1 -< 2,5

### 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	:	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	:	
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	:	
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



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Unsuitable extinguishing media		:	None known.			
	Specific fighting	c hazards during fire	:	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 c cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to so. Evacuate area.		
	Special protective equipment for fire-fighters		:		e, wear self-contained breathing apparatus. rective equipment.	

### 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). 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 diking or other appropriate containment to keep material from spreading. If diked 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



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	nnical measures		ng measures under EXPOSURE ERSONAL PROTECTION section.			
Local/Total ventilation Advice on safe handling		: Do not get on s Do not breathe Do not swallow Do not get in e Wash skin tho Handle in acco practice, based assessment Do not eat, drin	Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the			
Hygiene measures		: If exposure to o flushing system place. When using do Wash contamin The effective o engineering co appropriate de industrial hygie	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.			
Cond	ditions for safe storage	<ul> <li>Keep in properly labeled containers.</li> <li>Store locked up.</li> <li>Store in accordance with the particular national regulations.</li> </ul>				
Mate	erials to avoid	: Do not store w Strong oxidizin	ith the following product types: g agents ubstances and mixtures			

#### 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 informa	ation: Skin		
		Wipe limit	50 µg/100 cm <sup>2</sup>	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.



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		cabinet, fur potential ex	n a laboratory, use a properly designed biosafety ne hood, or other containment device if the kists for aerosolization. If this potential does not le over lined trays or benchtops.		
Pers	onal protective equip	nent			
Resp Fi	Respiratory protection Filter type Hand protection		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		
М	aterial	: Chemical-r	esistant gloves		
Eyer	emarks protection and body protection	<ul> <li>Wear safet         If the work             mists or ae             Wear a fac             potential fo             aerosols.         </li> <li>Work unifo         Additional I             task being             disposable             Use approp     </li> </ul>	ouble gloving. y glasses with side shields or goggles. environment or activity involves dusty conditions, rosols, wear the appropriate goggles. eshield or other full face protection if there is a r direct contact to the face with dusts, mists, or rm or laboratory coat. body garments should be used based upon the performed (e.g., sleevelets, apron, gauntlets, suits) to avoid exposed skin surfaces. oriate degowning techniques to remove potentially ed clothing.		

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	liquid
Color	:	clear, light yellow
Odor	:	mild, oily
Odor 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



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		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	
	Solubili Wat	ty(ies) er solubility	:	No data available	
		n coefficient: n-	:	No data available	
	octanol Autoigr	/water hition temperature	:	No data available	
	Decom	position temperature	:	No data available	
	Viscosi 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	e characteristics e size	:	Not applicable	

#### 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 routes of	:	Inhalation
exposure		Skin contact
		Ingestion
		Eye contact



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Harm	<b>e toxicity</b> Iful if swallowed. be harmful in contact with	n sk	in or if inhaled.	
Prod	uct:			
	e oral toxicity	:	LD50 (Rat): 2.000	mg/kg
			TDLo (Rat): 300 n Remarks: No mor	ng/kg tality observed at this dose.
Acute	e inhalation toxicity	:	Acute toxicity estin Exposure time: 4 Test atmosphere: Method: Calculation	h dust/mist
Acute	e dermal toxicity	:	LD50 (Rat): > 2.00	00 mg/kg
Com	ponents:			
2-(2-l	Butoxyethoxy)ethyl 6-p	rop	ylpiperonyl ether:	
Acute	e oral toxicity	:	LD50 (Rat): > 2.00 Method: OECD Te	
Acute	e inhalation toxicity	:	LC50 (Rat): > 5,2 Exposure time: 4 Test atmosphere: Method: OECD Te	h dust/mist
Acute	e dermal toxicity	:	LD50 (Rat): > 2.00 Method: OECD Te	
Iamb	da-cyhalothrin (ISO):			
	e oral toxicity	:	LD50 (Rat): 56 - 7	′9 mg/kg
			LD50 (Mouse): 20	) mg/kg
Acute	e inhalation toxicity	:	LC50 (Rat): 0,06 r Exposure time: 4 Test atmosphere:	h
Acute	e dermal toxicity	:	LD50 (Rat): 632 -	696 mg/kg
	e toxicity (other routes of nistration)	:	LD50 (Rat): 250 - Application Route	
Skin	corrosion/irritation			
Caus	es skin irritation.			
<u>Prod</u>	uct:			
Spec Resu		:	Rabbit irritating	



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oonents:		
Butoxyethoxy)ethyl ( es od t	5-propylpiperonyl ethe : Rabbit : OECD Test Guid : No skin irritation	deline 404
sment	: Repeated expos	sure may cause skin dryness or cracking.
da-cyhalothrin (ISO)	:	
es t	: Rabbit : No skin irritation	
us eye damage/eye es eye irritation.	irritation	
<u>uct:</u>		
es t	: Rabbit : Mild eye irritation	n
oonents:		
		r:
t od		, reversing within 21 days deline 405
da-cyhalothrin (ISO)	:	
es t	: Rabbit : Mild eye irritation	n
iratory or skin sensi	tization	
sensitization assified based on ava	ailable information.	
iratory sensitization		
assified based on ava	ailable information.	
<b>uct:</b> Type as of exposure asment t	<ul> <li>Local lymph noc</li> <li>Dermal</li> <li>Does not cause</li> <li>negative</li> <li>Magnusson-Klig</li> <li>Dermal</li> <li>Not a skin sensi</li> </ul>	skin sensitization. man-Test
	28.09.2024 ponents: Sutoxyethoxy)ethyl ( as ad t sment da-cyhalothrin (ISO) es t us eye damage/eye es eye irritation. Int: es t ponents: ponents: butoxyethoxy)ethyl ( as t ponents: butoxyethoxy)ethyl ( as t d da-cyhalothrin (ISO) es t ratory or skin sensi sensitization assified based on ava ratory sensitization assified based on ava	28.09.2024       1366447-00019         conents:       Rabbit         cutoxyethoxy)ethyl 6-propylpiperonyl etheles       :         cutoxyethoxy)ethyl 6-propylpiperonyl etheles       :         sment       :       Repeated expose         da-cyhalothrin (ISO):       :       Rabbit         es       :       Rabbit         t       :       No skin irritation         es       :       Rabbit         t       :       :         es       :       Rabbit         t       :       :



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#### Components:

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

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

#### lambda-cyhalothrin (ISO):

Test Type	: Magnusson-Kligman-Test
Routes of exposure	: Dermal
Species	: Guinea pig
Test Type Routes of exposure Species Result	: Not a skin sensitizer.

#### Germ cell mutagenicity

Not classified based on available information.

#### **Components:**

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

Genotoxi	city 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

#### Carcinogenicity

Not classified based on available information.



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

•	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:

	n o p	
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 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 fetal development	:	Test Type: Development Species: Rat Application Route: Oral General Toxicity Maternal: NOAEL: 10 mg/kg body weight



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		Result: No effec body weight gair	Toxicity: LOAEL: 15 mg/kg body weight ts on fetal development., Reduced maternal n., Reduced fetal weight. I on data from similar materials
		Developmental Result: No effec body weight gair	
	<b>F-single exposure</b> cause damage to orga	ns (Nervous system).	
Com	ponents:		
2-(2-	Butoxvethoxv)ethvl 6	-propylpiperonyl ethe	r:
-	ssment	: May cause resp	
	da-cyhalothrin (ISO):		
	et Organs ssment	: Nervous system : Causes damage	
		. Guudee aannage	
STO	<b>F-repeated exposure</b>		
Not c	lassified based on ava	ilable information.	
Repe	eated dose toxicity		
Com	ponents:		
2-(2-	Butoxvethoxv)ethvl 6	-propylpiperonyl ethe	r:
Spec	• • • •	: Rat	
NOA		: 1.323 mg/kg	
	cation Route sure time	: Ingestion : 7 Weeks	
∎⊏xpo	sure ume	. 7 Weeks	
lamb	da-cyhalothrin (ISO):	:	
Spec		: Dog	
NOA		: 2,5 mg/kg	
LOAE		: 12,5 mg/kg	
	cation Route sure time	: oral (feed) : 90 d	
	otoms		eight gain, reduced food consumption
Ilense	iaa	. Dot	
Spec NOA		: Rat : 10 mg/kg	
LOAE		: 50 mg/kg	
	cation Route	: Dermal	
	sure time	: 21 d	



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Targe	t Organs	: Nervous system	
Expos	L	<ul> <li>Rat</li> <li>0,08 mg/kg</li> <li>0,9 mg/kg</li> <li>Inhalation</li> <li>21 d</li> <li>Nervous system</li> </ul>	
Expos	L L ation Route ure time t Organs	<ul> <li>Dog</li> <li>0,1 mg/kg</li> <li>0,5 mg/kg</li> <li>Oral</li> <li>1 y</li> <li>Nervous system</li> <li>Gastrointestinal disturbance, Vomiting, Convulsions Liver effects</li> </ul>	s, 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 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



rsion )	Revision Date: 28.09.2024		9S Number: 66447-00019	Date of last issue: 30.09.2023 Date of first issue: 01.03.2017
			NOEC (Pseudokin mg/l Exposure time: 72 Method: OECD To	
M-Fact icity)	tor (Acute aquatic tox-	:	1	
	y to fish (Chronic tox-	:	NOEC (Pimephale Exposure time: 35	es promelas (fathead minnow)): 0,18 mg/l 5 d
	invertebrates (Chron-	:	NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): 0,03 mg/l I d
	tor (Chronic aquatic	:	1	
	) y to microorganisms	:	EC50: > 1.000 mg Exposure time: 3 Method: OECD Te	ĥ
lambd	a-cyhalothrin (ISO):			
Toxicit	y to fish	:	Exposure time: 96 Method: OECD To	
			Exposure time: 96 Method: OECD To	
	y to daphnia and other c invertebrates	:	Exposure time: 48 Method: OECD Te	
	tor (Acute aquatic tox-	:	10.000	
icity) Toxicit <u>y</u> icity)	y to fish (Chronic tox-	:	mg/l Exposure time: 32 Method: OECD To	
	y to daphnia and other c invertebrates (Chron- ity)	:	Exposure time: 21 Method: OECD To	
M-Fact toxicity	tor (Chronic aquatic	:	10.000	



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Persi	stence and degradab	ility		
<u>Com</u>	ponents:			
2-(2-E	Butoxyethoxy)ethyl 6-	prop	ylpiperonyl ethe	r:
	egradability	:	Result: Not read Biodegradation: Exposure time: 2	ily biodegradable. 0 %
Bioad	ccumulative potential			
Com	ponents:			
2-(2-8	Butoxyethoxy)ethyl 6-	prop	vlpiperonyl ethe	r:
Partit	ion coefficient: n- ol/water	:	log Pow: 5	
lamb	da-cyhalothrin (ISO):			
Bioac	cumulation	:		n factor (BCF): 2.240 Test Guideline 305
	ion coefficient: n- ol/water	:	log Pow: 7,0 (20	°C)
Mobi	lity in soil			
<u>Com</u>	ponents:			
lamb	da-cyhalothrin (ISO):			
Distri	bution among environ- al compartments	:	log Koc: 5,5	
Othe	r adverse effects			
No da	ata available			

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
1 0 0	handling site for recycling or disposal.
	If not otherwise specified: Dispose of as unused product.

#### **SECTION 14. TRANSPORT INFORMATION**

### International Regulations

#### UNRTDG

UN number Proper shipping name	-	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-(2-butoxyethoxy)ethyl 6-propylpiperonyl ether, lambda-



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	Class Packing group Labels Environmentally hazardous <b>IATA-DGR</b> UN/ID No. Proper shipping name Class Packing group			cyhalothrin (ISO)) 9 III 9 yes	)
I			:		nazardous substance, liquid, n.o.s. xy)ethyl 6-propylpiperonyl ether, lambda-
			:	9 	
	Labels	9 9 ° ° ° P		Miscellaneous	
I	Packing instruction (cargo aircraft) Packing instruction (passen- ger aircraft) Environmentally hazardous		:	964	
I			:	964	
İ			:	yes	
1					
	UN nur			UN 3082	
	Proper shipping name		÷		ALLY HAZARDOUS SUBSTANCE, LIQUID,
				N.O.S.	,,
				(2-(2-Butoxyethox cyhalothrin (ISO))	ky)ethyl 6-propylpiperonyl ether, lambda-
(	Class		:	9	
	Packing	g group	:	III	
I	Labels		:	9	
I	EmS Code		:	F-A, S-F	
I	Marine	pollutant	:	yes	
-	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code			OL 73/78 and the IBC Code	

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

Not applicable for product as supplied.

#### Domestic regulation

#### ANTT

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	:	III
Labels	:	9
Hazard Identification Number	:	90

#### 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.



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#### **SECTION 15. REGULATORY INFORMATION**

Safety, health and environmental regulations/legislation specific for the substance or mixture					
National List of Carcinogenic Agents for Humans - : Not applicable (LINACH)					
Brazil. List of chemicals controlled by the Federal : Not applicable Police					
The ingredients of this product are reported in the following inventories:					
AICS	: not determined				
DSL	: not determined				
IECSC	: not determined				

#### **SECTION 16. OTHER INFORMATION**

Revision Date	:	28.09.2024
Date format	:	dd.mm.yyyy

#### Further information

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.

#### 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;



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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 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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