

Version 3.12	Revision Date: 30.09.2023		S Number: 39822-00020	Date of last issue: 04.04.2023 Date of first issue: 06.12.2016	
SECTION 1. IDENTIFICATION					
Produ	Product name		Lambda-Cyhalot	thrin / Piperonyl Butoxide Ear Tag	
Manu	ufacturer or supplier's	s deta	ils		
Com	bany	:	MSD		
Addre	Address		Talcahuano 750, 6th floor, Ciudad Autonoma Buenos Aires, Argentina C1013AAP		
Telep	Telephone		908-740-4000		
Emer	Emergency telephone		1-908-423-6000		
E-ma	E-mail address		EHSDATASTEWARD@msd.com		
Reco	mmended use of the	chem	ical and restriction	ons on use	
	mmended use ictions on use	:	Veterinary produ Not applicable	ict	

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Acute toxicity (Oral)	:	Category 4
Specific target organ toxicity - single exposure	:	Category 1 (Nervous system)
Short-term (acute) aquatic hazard	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 1
GHS label elements Hazard pictograms		
Signal Word	:	Danger



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Precautionary Statements		Prevention: P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment.		
		CENTER/ docto	•••	
		Storage: P405 Store locl	ked up.	
		Disposal: P501 Dispose o disposal plant.	of contents/ container to an approved waste	

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)
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.
If inhaled		If inhaled, remove to fresh air. Get medical attention.
In case of skin contact		In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact		Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, DO NOT induce vomiting unless directed to do



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Most	Most important symptoms			ition. oughly with water. ng by mouth to an unconscious person.	
and e delaye	ffects, both acute and ed	•	Causes damage		
Protec	ction 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 symptomati	cally and supportively.	
SECTION	5. FIRE-FIGHTING ME	ASL	IRES		
Suitat	Suitable extinguishing media		Water spray Alcohol-resistant Carbon dioxide (C Dry chemical		
	Unsuitable extinguishing media		None known.		
Speci fightin	fic hazards during fire	:	Exposure to combustion products may be a hazard to healt		
	Hazardous combustion prod-		Carbon oxides Nitrogen oxides (Chlorine compour Fluorine compour	nds	
Speci ods	Specific extinguishing meth- ods		cumstances and t Use water spray t	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to do	
	al protective equipment e-fighters	:	In the event of fire	e, wear self-contained breathing apparatus. tective equipment.	

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. 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	:	Surround spill with absorbents and place a damp covering over the area to minimize entry of the material into the air. Add excess liquid to allow the material to enter into solution. Soak up with inert absorbent material. Clean up remaining materials from spill with suitable absorbent.



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		disposal of employed i determine Sections 13	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 ST	ORAGE			
Tech	nical measures		eering measures under EXPOSURE S/PERSONAL PROTECTION section.		
Local	/Total ventilation		ith adequate ventilation.		
	Advice on safe handling		athe dust, fume, gas, mist, vapors or spray. act with eyes. onged or repeated contact with skin. thoroughly after handling. accordance with good industrial hygiene and safety ased on the results of the workplace exposure at drink or smoke when using this product. to prevent spills, waste and minimize release to the ht.		
Cond	litions for safe storage	Store locke	operly labeled containers. ed up. cordance with the particular national regulations.		
Mate	Materials to avoid		e with the following product types: lizing agents re substances and mixtures roxides		

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
Polyvinyl chloride	9002-86-2	TWA (Respirable particulate matter)	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 inform	ation: Skin		
		Wipe limit	50 µg/100 cm ²	Internal
Titanium dioxide	13463-67-7	CMP	10 mg/m ³	AR OEL
	Further inform	ation: A4 - Not c	lassifiable as a huma	n carcinogen
		TWA	2,5 mg/m ³	ACGIH



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		(Respirable (Titanium dioxide) particulate matter)		
En	ngineering 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. 		
Ре	ersonal protective equipm	nt		
Re	espiratory protection	 If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection. 		
Ha	Filter type and protection	: Combined particulates and organic vapor type		
	Material	Chemical-resistant gloves		
Ey	Remarks /e 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 		
Sk	in and body protection	aerosols. 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.		
Ну	/giene measures	 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. 		

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	solid
Color	:	violet



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Od	or	:	No data available	9
Od	or Threshold	:	No data available	9
pН		:	No data available	9
Me	Iting point/freezing point	:	No data available	9
Initi ran	ial boiling point and boiling ge	:	No data available	
Fla	sh point	:	Not applicable	
Eva	aporation rate	:	No data available)
Fla	mmability (solid, gas)	:	Not classified as	a flammability hazard
Fla	mmability (liquids)	:	No data available)
	per explosion limit / Upper nmability limit	:	No data available	
	ver explosion limit / Lower nmability limit	:	No data available	
Vap	por pressure	:	No data available)
Rel	ative vapor density	:	No data available)
Rel	ative density	:	No data available)
Dei	nsity	:	No data available)
	ubility(ies) Water solubility	:	No data available)
	tition coefficient: n- anol/water	:	No data available	9
	oignition temperature	:	No data available)
Dee	composition temperature	:	No data available)
	cosity Viscosity, kinematic	:	No data available)
Exp	blosive properties	:	Not explosive	
Oxi	dizing properties	:	The substance of	r mixture is not classified as oxidizing.
Мо	lecular weight	:	No data available	9
Par	ticle size	:	No data available	9



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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 routes of exposure	:	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: > 5.000 mg/kg Method: Calculation method
Components:		
2-(2-Butoxyethoxy)ethyl 6-p	rop	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):		
Acute oral toxicity	:	LD50 (Rat): 56 - 79 mg/kg
		LD50 (Mouse): 20 mg/kg
Aguto inholation toxicity		1 CEO (Bat): 0.06 ma/l
Acute inhalation toxicity	:	LC50 (Rat): 0,06 mg/l Exposure time: 4 h



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			Test atmospher	e: dust/mist	
Acute	e dermal toxicity	:	LD50 (Rat): 632	2 - 696 mg/kg	
	e toxicity (other routes of nistration)	:		- 750 mg/kg te: Intraperitoneal	
Titan	ium dioxide:				
Acute	e 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		
_	corrosion/irritation lassified based on availa	ble	information.		
Com	ponents:				
2-(2-E	Butoxyethoxy)ethyl 6-p	rop	ylpiperonyl ethe	er:	
Speci		:	Rabbit		
Metho		:	: OECD Test Guideline 404		
Resu	IT	:	No skin irritation		
Asses	ssment	:	Repeated exposure may cause skin dryness or cracking.		
lamb	da-cyhalothrin (ISO):				
Speci	ies	:	Rabbit		
Resu	lt	:	No skin irritation		
Titan	ium dioxide:				
Speci		:	Rabbit		
Resu	lt	:	No skin irritation	1	
Serio	ous eye damage/eye irri	itati	on		
Not c	lassified based on availa	ble	information.		
Prod					
Resu	lt	:	No eye irritation		
<u>Com</u>	ponents:				
2-(2-E	Butoxyethoxy)ethyl 6-p	rop	ylpiperonyl ethe	er:	
Speci		:	Rabbit		
Resu		:	Irritation to eyes	, reversing within 21 days	
مادم / ۸					



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lambo	da-cyhalothrin (ISO)):		
Speci		:	Rabbit	
Resul		:	Mild eye irritation	1
			-	
Titan	ium dioxide:			
Speci	es	:	Rabbit	
Resul	lt	:	No eye irritation	
Resp	iratory or skin sensi	itizatio	on	
Skin	sensitization			
Not cl	lassified based on ava	ailable	information.	
Resp	iratory sensitization			
Not cl	lassified based on ava	ailable	information.	
Comp	oonents:			
2-(2-E	Butoxyethoxy)ethyl	6-prop	ylpiperonyl ether	r:
Test 7	Гуре	:	Maximization Te	st
	es of exposure	:	Skin contact	
Speci		:	Guinea pig	
Metho		:	OECD Test Guid	leline 406
Resul	It	:	negative	
lambo	da-cyhalothrin (ISO)):		
Test	Туре	:	Magnusson-Kligr	man-Test
	es of exposure	:	Dermal	
Speci		:	Guinea pig	
Resu	lt	:	Not a skin sensit	izer.
Titani	ium dioxide:			
Test 7	Гуре	:	Local lymph node	e assay (LLNA)
	es of exposure	:	Skin contact	
Speci		:	Mouse	
Resul	It	:	negative	
Germ	cell mutagenicity			
Not cl	lassified based on ava	ailable	information.	
<u>Com</u>	oonents:			
2-(2-E	Butoxyethoxy)ethyl	6-prop	ylpiperonyl ether	r:
Geno	toxicity in vitro	:	Test Type: Bacte Result: negative	erial reverse mutation assay (AMES)
lambo	da-cyhalothrin (ISO)):		
	toxicity in vitro		Test Type: Bacte	erial reverse mutation assay (AMES)
20110		•	Result: negative	



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			Test Type: Chror Test system: Hur Result: negative	nosomal aberration nan lymphocytes
			Test Type: unsch Test system: rat Result: negative	eduled DNA synthesis assay hepatocytes
				o mammalian cell gene mutation test use lymphoma cells
Genc	otoxicity in vivo	:	Test Type: Micro Species: Mouse Cell type: Bone n Application Route Result: negative	narrow
Titan	ium dioxide:			
	ptoxicity in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)
Genc	otoxicity in vivo	:	Test Type: In vive Species: Mouse Result: negative	o micronucleus test
	inogenicity classified based on avai	lable	information.	
Com	ponents:			
2-(2-	Butoxyethoxy)ethyl 6-	nror	winineronyl ether	
Spec		:	Rat	•
Appli	cation Route	:	Ingestion	
	sure time	:	107 weeks	
Meth Resu		:	OECD Test Guid negative	eline 451
lamb	da-cyhalothrin (ISO):			
Spec		:	Mouse	
Appli	cation Route	:	oral (feed)	
Expo Resu	sure time	:	2 Years negative	
Rema		:		om similar materials
Spec	ies	:	Rat	
Appli	cation Route	:	oral (feed)	
	sure time	:	2 Years	
Resu Rema		:	negative Based on data fro	om similar materials
		•		



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Titanium dioxide: Species Application Route Exposure time Method Result		:	Rat inhalation (dust/m 2 Years OECD Test Guide positive		
	Remark	S	:		r mode of action may not be relevant in hu-
	Carcino ment	genicity - Assess-	:	Limited evidence animals.	of carcinogenicity in inhalation studies with
1	•	luctive toxicity ssified based on availa nents:	ble	information.	
	-	toxyethoxy)ethyl 6-p on fertility	rop :		eneration reproduction toxicity study
E	Effects	on fetal development	:	Test Type: Embry Species: Rat Application Route Result: negative	o-fetal development : Ingestion
		-cyhalothrin (ISO): on fertility	:	General Toxicity F Symptoms: Reduc Result: No effects	: oral (feed) Parent: NOAEL: 2 mg/kg body weight 1: LOAEL: 6,7 mg/kg body weight ced offspring weight gain.
E	Effects	on fetal development	:	Developmental To Result: No effects body weight gain. Remarks: Based of Test Type: Develo Species: Rabbit Application Route	: Oral Maternal: NOAEL: 10 mg/kg body weight oxicity: LOAEL: 15 mg/kg body weight on fetal development., Reduced maternal , Reduced fetal weight. on data from similar materials
				Developmental To	oxicity: NOAEL: 30 mg/kg body weight



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Result: No effects on fetal development., Reduced maternal body weight gain., Reduced fetal weight. Remarks: Based on data from similar materials

STOT-single exposure

Causes damage to organs (Nervous system).

Components:

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

Assessment	:	May cause respiratory irritation.

lambda-cyhalothrin (ISO):

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

STOT-repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

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

Species	:	Rat
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	:	Dog



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NOAE	EL	: 0,1 mg/kg					
LOAE		: 0,5 mg/kg					
	ation Route	: Oral					
	sure time	: 1 y					
Target Organs Symptoms			Nervous system Gastrointestinal disturbance, Vomiting, Convulsions, ataxia, Liver effects				
Titani	um dioxide:						
Speci	es	: Rat					
NOAE		: 24.000 mg/k	g				
	ation Route	: Ingestion : 28 Days					
Expos		. 20 Days					
Speci	es	: Rat					
NOAE		: 10 mg/m ³					
Application Route Exposure time		: inhalation (d : 2 y	ust/mist/fume)				
Not cl	ation toxicity assified based on ava						
Expe	rience with human e	xposure					
Produ	<u>uct:</u>						
Skin contact		tion, Local ir					
Eye contact			an be absorbed through skin. ay irritate eyes.				
Comp	oonents:						
lambo	da-cyhalothrin (ISO)	:					
Inhala			Cough, Local irritation, sneezing				
Skind	contact	tion, Local ir					
Evec	ontact	: Symptoms: I	an be absorbed through skin. Eve irritation				
Ingestion :			Symptoms: Gastrointestinal disturbance				

Ecotoxicity

Components:

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

Toxicity to fish	: LC50 (Cyprinodon variegatus (sheepshead minnow)): 3,94 ma/l
	Exposure time: 96 h
	Method: OECD Test Guideline 203

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 0,51 mg/l



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aqı	aquatic invertebrates		Exposure time: 48 Method: OECD To	
	Toxicity to algae/aquatic plants		ErC50 (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
			NOEC (Pseudokin mg/l Exposure time: 72 Method: OECD Te	
		:	1	
icit To: icit	kicity to fish (Chronic tox-	:	NOEC (Pimephale Exposure time: 35	es promelas (fathead minnow)): 0,18 mg/l 5 d
aqu	kicity to daphnia and other uatic invertebrates (Chron- oxicity)		NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): 0,03 mg/l I d
M-	Factor (Chronic aquatic	:	1	
	icity) kicity to microorganisms	:	EC50: > 1.000 mg Exposure time: 3 Method: OECD To	h
lan	ıbda-cyhalothrin (ISO):			
To	kicity to fish	:	Exposure time: 96 Method: OECD To	
			Exposure time: 96 Method: OECD To	
	kicity to daphnia and other uatic invertebrates	:	Exposure time: 48 Method: OECD Te	
	Factor (Acute aquatic tox-	:	10.000	
icit To icit	kicity to fish (Chronic tox-	:	mg/l Exposure time: 32 Method: OECD Te	
	kicity to daphnia and other uatic invertebrates (Chron-		NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): 0,0035 μg/l l d



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ic toxicity)				est Guideline 211 on data from similar materials	
M-Fac toxicit	ctor (Chronic aquatic	:	10.000		
Titani	ium dioxide:				
Toxici	Toxicity to fish		LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203		
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia r Exposure time: 4	nagna (Water flea)): > 100 mg/l 8 h	
Toxici plants	ity to algae/aquatic	:	EC50 (Skeletone Exposure time: 7	ema costatum (marine diatom)): > 10.000 mg 2 h	
Toxici	Toxicity to microorganisms		EC50: > 1.000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209		
Persi	stence and degradabili	ity			
Comp	oonents:				
2-(2-E	Butoxyethoxy)ethyl 6-p	rop	ylpiperonyl ethe	:	
Biode	gradability	:	 Result: Not readily biodegradable. Biodegradation: 0 % Exposure time: 28 d Method: OECD Test Guideline 301D 		
Bioac	cumulative potential				
<u>Comp</u>	oonents:				
2-(2-E	Butoxyethoxy)ethyl 6-p	rop	ylpiperonyl ethe		
	on coefficient: n- ol/water	:	log Pow: 5		
	da-cyhalothrin (ISO): cumulation	:	Bioconcentration factor (BCF): 2.240 Method: OECD Test Guideline 305		
	on coefficient: n- ol/water	:	log Pow: 7,0 (20 °C)		
Mobil	lity in soil				
<u>Comp</u>	ponents:				
Distrik	da-cyhalothrin (ISO): oution among environ- al compartments	:	log Koc: 5,5		



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Other adverse effects

No data available

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
	handling 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	:	III
Labels	:	9
Environmentally hazardous	:	yes
IATA-DGR		
UN/ID No.	:	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	:	III
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	956
Packing instruction (passen- ger aircraft)	:	956
Environmentally hazardous	:	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	÷	u III
Labels	÷	9
EmS Code	÷	F-A, S-F
Marine pollutant	÷	yes
	•	,



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

Not applicable for product as supplied.

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

Argentina. Carcinogenic Substances and Agents: Not applicableRegistry.Control of precursors and essential chemicals for the: Not applicable

Control of precursors and essential chemicals for the : Not applicable preparation of drugs.

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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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/

Full text of other abbreviations

ACGIH AR OEL	USA. ACGIH Threshold Limit Values (TLV) Argentina. Occupational Exposure Limits
ACGIH / TWA AR OEL / CMP	8-hour, time-weighted average TLV (Threshold Limit Value)

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



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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

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