

4.10 04/04/2023 1366473-00018 Date of first issue: 03/01/2017	Version	Revision Date:	SDS Number:	Date of last issue: 10/01/2022
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SECTION 1. IDENTIFICATION

Product name	:	Lambda-Cyhalothrin / Piperonyl Butoxide Formulation				
Manufacturer or supplier's o	Manufacturer or supplier's details					
Company name of supplier	:	Merck & Co., Inc				
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@merck.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 in accordance with the OSHA Hazard Communication Standard (29 CFR
1910.1200)

Acute toxicity (Oral)	:	Category 4
Skin irritation	:	Category 2
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. 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. P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves.
		Response: P301 + P312 + P330 IF SWALLOWED: Call a doctor if you fee



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		P305 + P351 + for several minu to do. Continue P307 + P311 IF P332 + P313 If P337 + P313 If	F ON SKIN: Wash with plenty of soap and water. P338 IF IN EYES: Rinse cautiously with water utes. Remove contact lenses, if present and easy
		Storage: P405 Store locl	ked up.
		Disposal: P501 Dispose o disposal plant.	of contents and container to an approved waste
Othe	r hazards		

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)		
Corn oil	8001-30-7	>= 90 - <= 100		
2-(2-Butoxyethoxy)ethyl 6- propylpiperonyl ether	51-03-6	>= 5 - < 10		
lambda-cyhalothrin (ISO)	91465-08-6	>= 1 - < 5		

Actual concentration is withheld as a trade secret

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 med 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 w for at least 15 minutes while removing contaminated cloth 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 v for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention. 	vater
If swallowed	If swallowed, DO NOT induce vomiting unless directed to	do



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Most important symptoms and effects, both acute and delayed Protection of first-aiders Notes to physician		:	 so by medical personnel. Get medical attention. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Harmful if swallowed. Causes skin and eye irritation. Causes damage to organs. 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. 				
SECT	TION 5.	FIRE-FIGHTING ME	ASU	IRES			
		e extinguishing media	:	Water spray Alcohol-resistant f Carbon dioxide (C Dry chemical			
n S	nedia Specific	ble extinguishing hazards during fire	:	None known. Exposure to comb	oustion products may be a hazard to health.		
F	ighting Hazardo ucts	ous combustion prod-	:	Carbon oxides Nitrogen oxides (I Chlorine compour Fluorine compour	nds		
	Specific ods	extinguishing meth-	:	cumstances and t Use water spray t	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		
	Special protective equipment for fire-fighters		:	Evacuate area. In the event of fire Use personal prot	e, wear self-contained breathing apparatus. ective equipment.		
SECT	TION 6.	ACCIDENTAL RELE	ASI	EMEASURES			
ti	ive equ	al precautions, protec- upment and emer- procedures	:		ective equipment. ing advice (see section 7) and personal ent recommendations (see section 8).		
E	Environ	mental precautions	:	Prevent spreading oil barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g., by containment or se of contaminated wash water. should be advised if significant spillages		
		s and materials for ment and cleaning up	:	For large spills, pr containment to ke	absorbent material. ovide diking or other appropriate ep material from spreading. If diked material tore recovered material in appropriate		



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		absorbent. Local or nationa disposal of this r employed in the determine which Sections 13 and	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 n regulations are applicable. I 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	:	Use only with adequate ventilation.
Advice on safe handling	:	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 environment.
Conditions for safe storage	:	Keep in properly labeled containers.
0		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

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
Corn oil	8001-30-7	TWA (mist - total)	10 mg/m ³	NIOSH REL
		TWA (mist - respirable)	5 mg/m³	NIOSH REL
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



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Engi	Engineering measures		eering controls should be implemented by facility ad operated in accordance with GMP principles to roducts, workers, and the environment. Iy no open handling permitted. ed processing systems or containment technologies. d in a laboratory, use a properly designed biosafety ume hood, or other containment device if the exists for aerosolization. If this potential does not adle over lined trays or benchtops.	
Pers	onal protective equip	nent		
	viratory protection	maintain concentra unknown Follow O use NIOS by air pur hazardou supplied release, e circumsta	and local exhaust ventilation is recommended to vapor exposures below recommended limits. Where ations are above recommended limits or are , appropriate respiratory protection should be worn. SHA respirator regulations (29 CFR 1910.134) and SH/MSHA approved respirators. Protection provided ifying respirators against exposure to any is chemical is limited. Use a positive pressure air respirator if there is any potential for uncontrolled exposure levels are unknown, or any other ance where air purifying respirators may not provide protection.	
Hand	I protection			
М	aterial	: Chemica	-resistant gloves	
	emarks protection	: Wear saf If the wor mists or a Wear a fa potential	double gloving. ety glasses with side shields or goggles. k environment or activity involves dusty conditions, aerosols, wear the appropriate goggles. aceshield or other full face protection if there is a for direct contact to the face with dusts, mists, or	
Skin	and body protection	aerosols. ction : Work uniform or laboratory coat. Additional body garments should be used based upon th task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potent contaminated clothing.		
Hygie	ene measures	: If exposu eye flush working p When us Wash cou The effec engineeri appropria industrial	re to chemical is likely during typical use, provide ing systems and safety showers close to the	

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES



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	Appear	ance	:	liquid	
	Color		:	clear, light yellow	
	Odor		:	mild, oily	
	Odor T	nreshold	:	No data available)
	рН		:	6.16	
	Melting	point/freezing point	:	No data available)
	Initial b range	oiling point and boiling	:	No data available	
	Flash p	oint	:	221.9 °F / 105.5 °	°C
	Evapor	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	9
	Solubili Wat	ty(ies) er solubility	:	No data available	9
	Partitio	n coefficient: n-	:	No data available)
		ition temperature	:	No data available	
	Decom	position temperature	:	No data available	9
	Viscosi Visc	ty osity, kinematic	:	No data available)
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance of	mixture is not classified as oxidizing.



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	ecular weight ticle size	:	Not applicable Not applicable	
Rea Che Pos tion Cor Inco Haz	N 10. STABILITY AND RI activity emical stability ssibility of hazardous reac- is nditions to avoid ompatible materials zardous decomposition ducts	:	Not classified as Stable under nor Can react with s None known. Oxidizing agents	trong oxidizing agents.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes Inhalation Skin contact Ingestion Eye contact	of	exposure
Acute toxicity Harmful if swallowed.		
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:		
Corn oil:		
Acute oral toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 401 Remarks: Based on data from similar materials
2-(2-Butoxyethoxy)ethyl 6-p	oror	ovlpiperonyl ether:
Acute oral toxicity		LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 423



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Acute	dermal toxicity	:	LD50 (Rat): > 2,00 Method: OECD Te	
lambo	da-cyhalothrin (ISO):			
	oral toxicity	:	LD50 (Rat): 56 - 7	′9 mg/kg
			LD50 (Mouse): 20) mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): 0.06 r Exposure time: 4 Test atmosphere:	h
Acute	dermal toxicity	:	LD50 (Rat): 632 -	696 mg/kg
	toxicity (other routes of istration)	:	LD50 (Rat): 250 - Application Route	
_	corrosion/irritation es skin irritation.			
<u>Prod</u> u	<u>ict:</u>			
Speci Resul		:	Rabbit irritating	
<u>Comp</u>	oonents:			
Corn	oil:			
Speci		:	Rabbit	
Metho		:	OECD Test Guide No skin irritation	eline 404
Resul Rema		:		m similar materials
2-(2-E	Butoxyethoxy)ethyl 6-p	rop	ylpiperonyl ether:	
Speci	es	:	Rabbit	
Metho		:	OECD Test Guide	eline 404
Resul	t	:	No skin irritation	
Asses	sment	:	Repeated exposu	re may cause skin dryness or cracking.
lambo	da-cyhalothrin (ISO):			
Speci		:	Rabbit	
Resul	t	•	No skin irritation	

Serious eye damage/eye irritation

Causes eye irritation.



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F	Produc	t:			
5	Species Result		:	Rabbit Mild eye irritation	
<u>(</u>	Compo	nents:			
(Corn oi	il:			
	Species Result	6	:	Rabbit No eye irritation	
	Nethod		÷	OECD Test Guide	eline 405
F	Remark	KS	:	Based on data fro	om similar materials
2	2-(2-Bu	toxyethoxy)ethyl 6-p	orop	ylpiperonyl ether:	:
	Species	3	:	Rabbit	······································
	Result Method		:	OECD Test Guide	reversing within 21 days eline 405
I	ambda	-cyhalothrin (ISO):			
	Species Result	3	:	Rabbit Mild eye irritation	
F	Respira	atory or skin sensitiz	atio	n	
	-	ensitization			
1	Not clas	ssified based on availa	able	information.	
	-	atory sensitization ssified based on availa	able	information.	
Ē	Produc	<u>t:</u>			
	Test Ty		:	Local lymph node	assay (LLNA)
		of exposure ment	:	Dermal Does not cause s	kin sensitization.
	Result		:	negative	
	Test Ty		:	Magnusson-Kligm	nan-Test
	Routes Result	of exposure	:	Dermal Not a skin sensitiz	zer.
	C				
	Compo				
	Corn oi			I have a new set in a	
	Test Ty∣ Routes	pe of exposure	÷	Skin contact	sult patch test (HRIPT)
	Result		:	negative	
2	2-(2-Bu	toxyethoxy)ethyl 6-p	orop	ylpiperonyl ether:	:
	Test Ty		:	Maximization Tes	t
	Routes Species	of exposure	:	Skin contact Guinea pig	
		-	•	2 p.g	



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Method Result		: OECD Test Gi : negative	: OECD Test Guideline 406: negative						
lambo	da-cyhalothrin (ISO)	:							
Test	Type es of exposure les	: Magnusson-Kl : Dermal : Guinea pig : Not a skin sen							
	cell mutagenicity lassified based on ava	ailable information.							
Com	oonents:								
Corn	oil:								
Geno	toxicity in vitro	: Test Type: Ba Result: negativ	cterial reverse mutation assay (AMES /e						
2-(2-E	Butoxyethoxy)ethyl (δ-propylpiperonyl eth	ner:						
Geno	toxicity in vitro	: Test Type: Ba Result: negativ	cterial reverse mutation assay (AMES /e						
lambo	da-cyhalothrin (ISO)	:							
Geno	toxicity in vitro	: Test Type: Ba Result: negativ	cterial reverse mutation assay (AMES /e						
			romosomal aberration Iuman lymphocytes /e						
			scheduled DNA synthesis assay at hepatocytes /e						
			vitro mammalian cell gene mutation te nouse lymphoma cells ve						
Geno	toxicity in vivo	Species: Mous Cell type: Bon	e marrow oute: Intraperitoneal						

Not classified based on available information.

Components:

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



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		 Ingestion 107 weeks OECD Test Guideline 451 negative
Speci Applic Expos Resul Rema Speci	cation Route sure time t urks es	 Mouse oral (feed) 2 Years negative Based on data from similar materials Rat
		 oral (feed) 2 Years negative Based on data from similar materials
IARC		nt of this product present at levels greater than or equal to 0.1% is probable, possible or confirmed human carcinogen by IARC.
OSHA		ent of this product present at levels greater than or equal to 0.1% is list of regulated carcinogens.
NTP		nt of this product present at levels greater than or equal to 0.1% is a known or anticipated carcinogen by NTP.
-	oductive toxicity assified based on avai	lable information.
Comp	<u>oonents:</u>	
	Butoxyethoxy)ethyl 6- s on fertility	 propylpiperonyl ether: Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Ingestion Result: negative
Effect	s on fetal developmen	t : Test Type: Embryo-fetal development Species: Rat Application Route: Ingestion Result: negative
	da-cyhalothrin (ISO): s 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



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Effect	ts on fetal development	:	Developmental Result: No effect body weight gai	
			Developmental Result: No effect body weight gai	
	Γ -single exposure es damage to organs (N	lonvo	nus svetom)	
	ponents:		us system).	
2-(2-F	Butoxyethoxy)ethyl 6-p	orop	ylpiperonyl ethe	er:
Asses	ssment	:	May cause resp	iratory irritation.
lamb	da-cyhalothrin (ISO):			
Targe	et Organs ssment	:	Nervous system Causes damage	
STO	F-repeated exposure			
	F-repeated exposure lassified based on availa	able	information.	
Not c	• •	able	information.	
Not c Repe	lassified based on availa	able	information.	
Not c Repe	lassified based on availa ated dose toxicity ponents:	able	information.	
Not c Repe <u>Com</u> Corn Speci NOAE Applie	lassified based on availa eated dose toxicity ponents: oil: ies EL cation Route sure time	able : : :	Rat > 300 mg/kg Ingestion 28 Days	rom similar materials
Not c Repe Com Corn Speci NOAE Applie Expos Rema	lassified based on availa eated dose toxicity ponents: oil: ies EL cation Route sure time	:	Rat > 300 mg/kg Ingestion 28 Days Based on data f	

•						
Specie	s			:	Rat	
NOAEI	_			:	1,323	mg/kg
Applica	ation Rou	ute		:	Inges	tion
Exposu	ure time			:	7 We	eks



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	Species NOAEL LOAEL Applica	- ition Route ire time	: Dog : 2.5 mg/kg : 12.5 mg/kg : oral (feed) : 90 d : reduced body w	veight gain, reduced food consumption
	Exposu	-	: Rat : 10 mg/kg : 50 mg/kg : Dermal : 21 d : Nervous systen	n
	Exposu	-	: Rat : 0.08 mg/kg : 0.9 mg/kg : Inhalation : 21 d : Nervous systen	n
	Exposu	- ition Route ure time Organs	 Dog 0.1 mg/kg 0.5 mg/kg Oral 1 y Nervous system Gastrointestina Liver effects 	n I disturbance, Vomiting, Convulsions, ataxia,
	Not cla	tion toxicity ssified based on availa		
	•	ence with human exp	oosure	
		onents:		
	Inhalati Skin co		: Symptoms: Ski tion, Local irrita	ugh, Local irritation, sneezing n irritation, tingling, superficial burning sensa- tion be absorbed through skin.
	Eye co		: Symptoms: Eye	

SECTION 12. ECOLOGICAL INFORMATION

:

Ecotoxicity

Ingestion

Components:

Corn oil:

Symptoms: Gastrointestinal disturbance



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To	xicity to fish	:	Exposure time: 96 Method: ISO 7346	
	xicity to daphnia and other uatic invertebrates	:	Exposure time: 48 Test substance: V Method: Directive	agna (Water flea)): > 100 mg/l 3 h Vater Accommodated Fraction 67/548/EEC, Annex V, C.2. on data from similar materials
	xicity to algae/aquatic nts	:	Exposure time: 72 Test substance: V Method: Directive	mus subspicatus (green algae)): > 100 mg/l 2 h Vater Accommodated Fraction 67/548/EEC, Annex V, C.3. on data from similar materials
aqu	xicity to daphnia and other uatic invertebrates (Chron- oxicity)		Exposure time: 21 Test substance: V Method: OECD Te	Vater Accommodated Fraction
-	2-Butoxyethoxy)ethyl 6-p xicity to fish	prop :		n variegatus (sheepshead minnow)): 3.94 Sh
	xicity to daphnia and other uatic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
	xicity to algae/aquatic nts	:	mg/l Exposure time: 72 Method: OECD To	est Guideline 201 rchneriella subcapitata (green algae)): 0.824 2 h
To: icit	xicity to fish (Chronic tox- y)	:	NOEC (Pimephale Exposure time: 35	es promelas (fathead minnow)): 0.18 mg/l 5 d
aqu	xicity to daphnia and other uatic invertebrates (Chron- oxicity)		NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): 0.03 mg/l I d
	xicity to microorganisms	:	EC50: > 1,000 mg Exposure time: 3 Method: OECD Te	h



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	la-cyhalothrin (ISO): ty to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 0.00019 mg Exposure time: 96 h			
			Method: OECD Te			
			Exposure time: 96 Method: OECD Te			
	ty to daphnia and other ic invertebrates	:	Exposure time: 48 Method: OECD Te			
Toxici icity)	ty to fish (Chronic tox-	:	mg/l Exposure time: 32 Method: OECD To			
	ty to daphnia and other ic invertebrates (Chron- city)	:	Exposure time: 21 Method: OECD Te			
Persis	stence and degradabili	ty				
<u>Comp</u>	oonents:					
Corn Biode	oil: gradability	:	Result: Readily bi Remarks: Based o	odegradable. on data from similar materials		
2-(2-B	utoxyethoxy)ethyl 6-p	rop	ylpiperonyl ether:			
Biode	gradability	:	Result: Not readily Biodegradation: (Exposure time: 28 Method: OECD To)%		
Bioac	cumulative potential					
<u>Comp</u>	oonents:					
Corn	•					
	on coefficient: n- ol/water	:	log Pow: > 4 Method: OECD To	est Guideline 117		
•	utoxyethoxy)ethyl 6-p	rop				
Partiti	on coefficient: n-	:	log Pow: 5			



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octan	ol/water				
lamb	da-cyhalothrin (ISO):				
Bioac	cumulation		: Bioconcentration factor (BCF): 2,240 Method: OECD Test Guideline 305		
	ion coefficient: n- ol/water	: log Pow: 7.0 (6	8 °F / 20 °C)		
Mobi	lity in soil				
Com	ponents:				
Distri	da-cyhalothrin (ISO): bution among environ- al compartments	: log Koc: 5.5			
Othe	r adverse effects				
No da	ata available				
SECTION	13. DISPOSAL CONSI	DERATIONS			

Disposal methods		
Waste from residues	:	Dispose of in accordance with local regulations. Do not dispose of waste into sewer.
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 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	:	
Labels	:	9
IATA-DGR		
UN/ID No.	:	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	:	111
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	964
Packing instruction (passen- ger aircraft)	:	964



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En	vironmenta	ally hazardous	:	yes	
IM	DG-Code				
UN	N number		:	UN 3082	
Pro	oper shippi	ng name	:		ALLY HAZARDOUS SUBSTANCE, LIQUID,
				N.O.S. (2-(2-Butoxyethox cyhalothrin (ISO))	y)ethyl 6-propylpiperonyl ether, lambda-
Cla	ass		:	9	
	acking grou	р	:	111	
	ibels		:	9	
	nS Code	4	÷	F-A, S-F	
IVIE	arine polluta	ant	•	yes	
Tra	ansport in	bulk according	g to	Annex II of MARP	OL 73/78 and the IBC Code
No	ot applicable	e for product as	sup	plied.	
Do	omestic reg	gulation			
49	CFR				
UN	N/ID/NA nui	mber	:	UN 3082	
Pro	oper shippi	ng name	:		nazardous substance, liquid, n.o.s. xy)ethyl 6-propylpiperonyl ether, lambda-
	ass		:	9	
	Packing group : Labels :		:	III	
			:	CLASS 9	
	RG Code	ant	÷	171	they what had a propulation reput other lambda
	arine polluta	ant		cyhalothrin (ISO))	
Re	emarks		:	Above applies on liters.	ly to containers over 119 gallons or 450
				may be shipped p	nd under DOT is non-regulated; however it per the applicable hazard classification to dal transport involving ICAO (IATA) or IMO.
Sp	pecial prec	autions for use	r		

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

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Acute toxicity (any route of exposure) Specific target organ toxicity (single or repeated exposure)

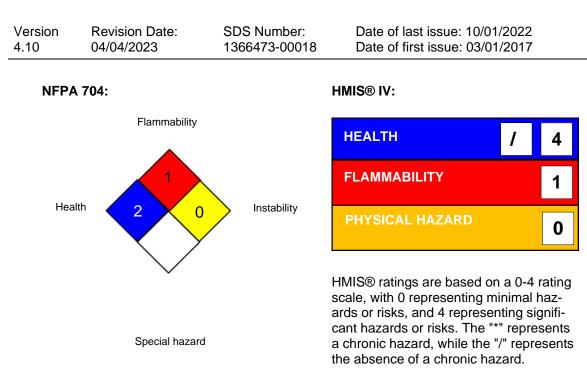


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		Skin corrosion o Serious eye dan	r irritation nage or eye irritati	ion
SAF	RA 313		mponents are sul SARA Title III, Sec	bject to reporting levels tion 313:
		2-(2- Butoxyeth- oxy)ethyl 6- propylpiperonyl ether	51-03-6	>= 5 - < 10 %
US	State Regulations			
Pen	nsylvania Right To Kn Corn oil 2-(2-Butoxyethox	ow y)ethyl 6-propylpiperon	yl ether	8001-30-7 51-03-6
Cali	f ornia Permissible Ex j Corn oil	posure Limits for Che	mical Contamina	ants 8001-30-7
The AIC:	ingredients of this pro S	oduct are reported in t : not determined	the following inv	rentories:
DSL		: not determined		
IEC	SC	: not determined		

SECTION 16. OTHER INFORMATION

Further information





Full text of other abbreviations

NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour
		workday during a 40-hour workweek

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amend-



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ments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; 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

Sources of key data used to compile the Material Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/
Revision Date		04/04/2023

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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