

according to the OSHA Hazard Communication Standard

Lambda-Cyhalothrin / Decamethylcyclopentasiloxane Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04/04/2023
7.0	09/30/2023	1078734-00018	Date of first issue: 11/18/2016

SECTION 1. IDENTIFICATION

Product name	:	Lambda-Cyhalothrin / Decamethylcyclopentasiloxane Formulation			
Manufacturer or supplier's de	eta	ils			
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@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 (Inhalation)	:	Category 4
Acute toxicity (Dermal)	:	Category 4
Eye irritation	:	Category 2B
Specific target organ toxicity - single exposure	:	Category 1 (Nervous system)
GHS label elements Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	H312 + H332 Harmful in contact with skin or if inhaled. H320 Causes 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. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves and clothing.





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		water. Call a doct P304 + P340 + P and keep comfort unwell. P305 + P351 + P for several minute to do. Continue ri P307 + P311 IF e P337 + P313 If e	312 IF ON SKIN: Wash with plenty of soap and tor if you feel unwell. 312 IF INHALED: Remove person to fresh air table for breathing. Call a doctor if you feel 338 IF IN EYES: Rinse cautiously with water es. Remove contact lenses, if present and easy nsing. exposed: Call a doctor. ye irritation persists: Get medical attention. the off contaminated clothing and wash it before		
		Storage: P405 Store locked up.			
		Disposal: P501 Dispose of disposal plant.	contents and container to an approved waste		

Other 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
Decamethylcyclopentasiloxane	541-02-6	>= 5 - < 10
lambda-cyhalothrin (ISO)	91465-08-6	>= 1 - < 5
Actual concentration is withhold as		

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 medical advice.
If inhaled	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
In case of skin contact	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.



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lı	In case of eye contact		:	for at least 15 mir	ove contact lens, if worn.	
If	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.		
а	Most important symptoms and effects, both acute and delayed		:		t with skin or if inhaled. ion.	
	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).		
Ν	Notes t	o physician	:		cally and supportively.	
SECT	SECTION 5. FIRE-FIGHTING ME			IRES		
S	Suitable	e extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical		
	Jnsuita nedia	ble extinguishing	:	None known.		

Specific hazards during fire fighting	:	Vapors may form explosive mixtures with air. Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Nitrogen oxides (NOx) Chlorine compounds Fluorine compounds Silicon oxides Formaldehyde
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	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective 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



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				se of contaminated wash water. should be advised if significant spillages red.
	Methods and materials for : containment and cleaning up		For large spills, pro- containment to kee can be pumped, so container. Clean up remaining absorbent. Local or national of disposal of this m employed in the of determine which to Sections 13 and 1	t absorbent material. rovide diking or other appropriate eep material from spreading. If diked material store recovered material in appropriate ng materials from spill with suitable regulations may apply to releases and aterial, as well as those materials and items cleanup of releases. You will need to regulations are applicable. 15 of this SDS provide information regarding tional requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	If sufficient ventilation is unavailable, use with local exhaust 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 Keep container tightly closed. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment. Do not breathe decomposition products.
Conditions for safe storage	:	Keep in properly labeled containers. Store locked up. Keep tightly closed. Keep in a cool, well-ventilated place. 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
Corn oil	8001-30-7	TWA (mist - total)	10 mg/m ³	NIOSH REL
		TWA (mist - respirable)	5 mg/m³	NIOSH REL
Decamethylcyclopentasiloxane	541-02-6	TWA	10 ppm	US WEEL
lambda-cyhalothrin (ISO)	91465-08-6	TWA	5 µg/m3 (OEB 4)	Internal
	Further informa	ation: Skin		
		Wipe limit	50 µg/100 cm ²	Internal

Occupational exposure limits of decomposition products

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Formaldehyde	50-00-0	TWA	0.1 ppm	ACGIH
		STEL	0.3 ppm	ACGIH
		TWA	0.016 ppm	NIOSH REL
		С	0.1 ppm	NIOSH REL
		PEL	0.75 ppm	OSHA CARC
		STEL	2 ppm	OSHA CARC
		TWA	0.016 ppm (Formaldehyde)	NIOSH REL
		С	0.1 ppm (Formaldehyde)	NIOSH REL

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:General and local exhaust ventilation is recommended to
maintain vapor exposures below recommended limits. Where

maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled

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Hand	protection		sure levels are unknown, or any other where air purifying respirators may not provide tection.		
Ма	iterial	: Chemical-resi	stant gloves		
	marks rotection	If the work en mists or aeros Wear a faces potential for d	ble gloving. lasses with side shields or goggles. vironment or activity involves dusty conditions, sols, wear the appropriate goggles. hield or other full face protection if there is a irect contact to the face with dusts, mists, or		
Skin a	nd body protection	 aerosols. Work uniform or laboratory coat. Additional body garments should be used based upor task being performed (e.g., sleevelets, apron, gauntle disposable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove pot contaminated clothing. 			
Hygiei	ne measures	: If exposure to eye flushing s working place When using d Wash contam The effective engineering c appropriate de industrial hygi	chemical is likely during typical use, provide ystems and safety showers close to the		

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	gold
Odor	:	oily
Odor Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	> 199.9 °F / > 93.3 °C
		Method: Tag closed cup
Evaporation rate	:	No data available



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	Flamma	ability (solid, gas)	:	Not applicable		
	Flamma	ability (liquids)	:	No data available)	
		explosion limit / Upper bility limit	:	No data available)	
		explosion limit / Lower bility limit	:	No data available		
	Vapor p	pressure	:	No data available)	
	Relative	e vapor density	:	No data available)	
	Relative	e density	: No data available			
	Density	,	:	0.924 - 0.974 g/c	m³ (68 °F / 20 °C)	
	Solubili Wat	ty(ies) er solubility	:	insoluble		
	Partition octanol	n coefficient: n-	:	No data available)	
		ition temperature	:	No data available)	
	Decom	position temperature	:	No data available)	
	Viscosi Visc	ty osity, kinematic	:	61.69 - 73.9 mm²	:/s	
	Explosi	ve properties	:	: Not explosive		
	Oxidizir	ng properties	:	The substance o	r mixture is not classified as oxidizing.	
	Molecu	lar weight	:	Not applicable		
	Particle	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. Vapors may form explosive mixture with air. Can react with strong oxidizing agents. Hazardous decomposition products will be formed at elevated temperatures.
Conditions to avoid Incompatible materials	:	None known. Oxidizing agents

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	ardous decompositior rmal decomposition		lucts Formaldehyde	
SECTION	N 11. TOXICOLOGICAI	LINF	ORMATION	
Inha Skin Inge	rmation on likely route lation contact stion contact	es of	exposure	
	te toxicity	: f :		
	nful in contact with skin duct:	or if i	nnaled.	
	te oral toxicity	:	LD50 (Rat): > 9,	500 mg/kg
Acut	e inhalation toxicity	:	LC50 (Rat): > 4. Remarks: No mo	1 mg/l ortality observed at this dose.
Acut	e dermal toxicity	:	LD50 (Rabbit): >	1,900 mg/kg
Con	<u>iponents:</u>			
Cor	n oil:			
Acut	e oral toxicity	:		000 mg/kg Fest Guideline 401 I on data from similar materials
Dec	amethylcyclopentasilo	oxane	:	
Acut	e oral toxicity	:	LD50 (Rat): > 5,	000 mg/kg
Acut	e inhalation toxicity	:	LC50 (Rat): 8.67 Exposure time: 4 Test atmosphere Method: OECD	۱ h
Acut	e dermal toxicity	:	LD50 (Rabbit): > Assessment: Th toxicity	2,000 mg/kg e substance or mixture has no acute dermal
laml	bda-cyhalothrin (ISO):			
Acut	e oral toxicity	:	LD50 (Rat): 56 -	79 mg/kg
			LD50 (Mouse): 2	0 mg/kg
Acut	e inhalation toxicity	:	LC50 (Rat): 0.06 Exposure time: 4 Test atmosphere	ŀh ¯



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	Acute dermal toxicity		:	LD50 (Rat): 632 -	696 mg/kg	
	Acute to adminis	oxicity (other routes of tration)	:	LD50 (Rat): 250 - Application Route		
		orrosion/irritation ssified based on availa	ble i	information.		
	Produc	<u>t:</u>				
	Species Result	3	:	Rabbit Mild skin irritation		
	<u>Compo</u>	nents:				
	Corn o	il:				
	Species		:	Rabbit	lin - 404	
	Method Result		:	OECD Test Guide No skin irritation	line 404	
	Remark	S	:		m similar materials	
	Decam	ethylcyclopentasiloxa	ane	:		
I	Species	6	: Rabbit			
	Result		:	No skin irritation		
	lambda	-cyhalothrin (ISO):				
	Species Result	3	:	Rabbit No skin irritation		
		s eye damage/eye irri	tatio	on		
	Causes	eye irritation.				
	Produc					
	Species Result	3	:	Rabbit Mild eye irritation		
	Compo	nents:				
	Corn o	il:				
	Species	3	:	Rabbit		
	Result		:	: No eye irritation		
	Method Remark	ζς.	:	OECD Test Guide Based on data from	line 405 m similar materials	
	Tomar		•			
	Decam	ethylcyclopentasiloxa	ane	:		
	Species	3	:	Rabbit		
1	Result : No eye irritation					



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lamb	da-cyhalothrin (ISO)):		
Spec	ies	:	Rabbit	
Resu	lt	:	Mild eye irritation)
Resp	iratory or skin sens	itizatio	on	
	sensitization			
Not c	lassified based on av	ailable	information.	
-	iratory sensitization lassified based on av		information	
		allable	iniornation.	
Prod				
Spec Resu		:	Guinea pig Not a skin sensit	izer.
Com	ponents:			
Corn	oil:			
Test	Туре	:	Human repeat in	sult patch test (HRIPT)
Route	es of exposure	:	Skin contact	,
Resu	lt	:	negative	
Deca	methylcyclopentasi	loxane):	
Test	Туре	:	Local lymph node	e assay (LLNA)
Route	Type es of exposure	:	Skin contact	
Spec	ies	:	Mouse	
Resu	п	•	negative	
lamb	da-cyhalothrin (ISO)):		
Test	Туре	:	Magnusson-Kligr	man-Test
-	es of exposure	:	Dermal	
Spec Resu	les It	:	Guinea pig Not a skin sensit	izer
I NOSU	it.	•		
	n cell mutagenicity			
	lassified based on av	ailable	information.	
Com	ponents:			
Corn				
Geno	otoxicity in vitro	:		erial reverse mutation assay (AMES)
			Result: negative	
II Deca	methylcyclopentasi	loxane	<u>;</u>	
	toxicity in vitro			erial reverse mutation assay (AMES)
		•		Fest Guideline 471
			Result: negative	
			10/21	

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			hromosome aberration test in vitro CD Test Guideline 473 tive
		Test Type: In Result: negat	vitro mammalian cell gene mutation test
Geno	otoxicity in vivo	cytogenetic a Species: Rat Application R	coute: inhalation (vapor) CD Test Guideline 474
		mammalian I Species: Rat Application R	oute: Inhalation D Test Guideline 486
	da-cyhalothrin (ISO):		
Geno	otoxicity in vitro	: Test Type: B Result: nega	acterial reverse mutation assay (AMES) tive
			hromosomal aberration Human lymphocytes tive
			nscheduled DNA synthesis assay rat hepatocytes tive
			vitro mammalian cell gene mutation test mouse lymphoma cells tive
Geno	otoxicity in vivo	Species: Mou Cell type: Bo	ne marrow oute: Intraperitoneal
	inogenicity classified based on availa	able information	
	ponents:	מטוב ווווטוווומנוטוו.	

lambda-cyhalothrin (ISO):

Species Application Route	:	Mouse
Application Route	:	oral (feed)

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Exposu Result Remar	ure time ks		:	2 Years negative Based on data fro	m similar materials			
Species Application Route Exposure time Result Remarks				 Rat oral (feed) 2 Years negative Based on data from similar materials 				
IARC					at levels greater than or equal to 0.1% is onfirmed human carcinogen by IARC.			
OSHA				this product preser regulated carcinog	nt at levels greater than or equal to 0.1% is ens.			
NTP					at levels greater than or equal to 0.1% is carcinogen by NTP.			
Not cla <u>Compo</u> Decam	ssified b onents: nethylcy	toxicity based on availa rclopentasilox	ane	:				
Effects	on fertil	ity	:	Species: Rat	eneration reproduction toxicity study : inhalation (vapor) 370.3800			
Effects on fetal development		:	Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: inhalation (vapor) Method: OPPTS 870.3800 Result: negative					
lambda	a-cyhalo	othrin (ISO):						
Effects	on fertil	ity	:	General Toxicity F Symptoms: Reduce Result: No effects	: oral (feed) Parent: NOAEL: 2 mg/kg body weight 1: LOAEL: 6.7 mg/kg body weight ced offspring weight gain.			
Effects	on fetal	development	:	Test Type: Develo Species: Rat Application Route General Toxicity N				

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			Result: No effects body weight gain.	oxicity: LOAEL: 15 mg/kg body weight on fetal development., Reduced maternal , Reduced fetal weight. on data from similar materials
			Developmental To Result: No effects body weight gain.	
STOT	-single exposure			
Cause	es damage to organs (N	ervo	ous system).	
Comp	onents:			
lambo	la-cyhalothrin (ISO):			
Targe Asses	t Organs sment	:	Nervous system Causes damage t	o organs.
	-repeated exposure assified based on availa	able	information.	
Repea	ated dose toxicity			
Comp	onents:			
Corn	oil:			
Specie		:	Rat	
NOAE	L ation Route	:	> 300 mg/kg Ingestion	
Expos	sure time	÷	28 Days	
Rema	rks	:	Based on data fro	m similar materials
Decar	nethylcyclopentasilox	ane	:	
Specie		:	Rat	
NOAE		:	1,000 mg/kg	
LOAE Applic	L ation Route	:	> 1,000 mg/kg Ingestion	
Metho		:	OECD Test Guide	eline 408
lambo	la-cyhalothrin (ISO):			
Specie		:	Dog	
NOAE		:	2.5 mg/kg	
LOAE Applic	L ation Route	:	12.5 mg/kg oral (feed)	
Expos	sure time	:	90 d	
Symp	toms	:	reduced body wei	ght gain, reduced food consumption



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Expo	EL	: 50 n : Den : 21 c		
Expo	EL	: 0.9 : Inha : 21 c	s mg/kg mg/kg Ilation I vous system	
Expo Targe	EL	: 0.5 : Oral : 1 y : Ner : Gas	mg/kg mg/kg vous system	listurbance, Vomiting, Convulsions, ataxia,
-	ration toxicity lassified based on avai	lable inforr	nation.	
Expe	rience with human ex	posure		
Eye c	uct: contact contact ponents:		nptoms: May o nptoms: irritati	cause, Local irritation ing
lamb	da-cvhalothrin (ISO):			
Inhala		: Syn tion	ptoms: Skin i Local irritatio	h, Local irritation, sneezing irritation, tingling, superficial burning sensa- on a absorbed through skin.
Eye o Inges	contact stion		ptoms: Eye i ptoms: Gastr	rritation rointestinal disturbance
Iamb Inhala Skin Eye o Inges	da-cyhalothrin (ISO): ation contact	: Sym tion Ren : Sym : Sym	ptoms: Skin Local irritationarks: Can be ptoms: Eye in ptoms: Gastr	irritation, tingling, superficial burning sens on a absorbed through skin. rritation

Ecotoxicity

Components:

Corn oil:

Toxicity to fish

: LL50 (Danio rerio (zebra fish)): > 100 mg/l Exposure time: 96 h





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				Method: ISO 7346 Remarks: Based o	5/1 on data from similar materials
		y to daphnia and other invertebrates	:	Exposure time: 48 Test substance: W 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
	Toxicity plants	y to algae/aquatic	:	Exposure time: 72 Test substance: W Method: Directive	mus subspicatus (green algae)): > 100 mg/l h Vater Accommodated Fraction 67/548/EEC, Annex V, C.3. on data from similar materials
		y to daphnia and other invertebrates (Chron- ity)	:	Exposure time: 21 Test substance: W Method: OECD Te	Vater Accommodated Fraction
-	Decam	ethylcyclopentasilox	ane	:	
	-	y to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): > 16 μg/l δ h city at the limit of solubility.
		y to daphnia and other invertebrates	:	Exposure time: 48 Method: OECD Te	
	Toxicity plants	y to algae/aquatic	:	µg/l Exposure time: 96 Method: OECD Te	
				µg/l Exposure time: 96 Method: OECD Te	
	Toxicity icity)	y to fish (Chronic tox-	:	Exposure time: 90 Method: OECD Te	
		y to daphnia and other invertebrates (Chron- ity)	:	Exposure time: 21 Method: OECD Te	





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Tox	icity to microorganisms	:	EC50: > 2,000 mg Exposure time: 3 Method: 88/302/E	ĥ
lam	bda-cyhalothrin (ISO):			
Tox	icity to fish	:	Exposure time: 96 Method: OECD To	
			Exposure time: 96 Method: OECD To	
	icity to daphnia and other atic invertebrates	:	Exposure time: 48 Method: OECD Te	
Tox icity	icity to fish (Chronic tox-)	:	mg/l Exposure time: 32 Method: OECD To	
aqu	icity to daphnia and other atic invertebrates (Chron- pxicity)	:	Exposure time: 21 Method: OECD To	
Per	sistence and degradabili	ty		
<u>Cor</u>	nponents:			
Cor	n oil:			
Biod	degradability	:	Result: Readily bi Remarks: Based	odegradable. on data from similar materials
Dec	amethylcyclopentasilox	ane	:	
Biod	degradability	:	Result: Not readily Biodegradation: (Exposure time: 28 Method: OECD To	0.14 % 3 d
Bio	accumulative potential			
<u>Cor</u>	nponents:			
Cor	n oil:			

Corn oil:





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Partition coefficient: n- octanol/water		:	log Pow: > 4 Method: OECD T	est Guideline 117
Deca	methylcyclopentasilo	ane):	
Bioac	cumulation	:	Bioconcentration	ales promelas (fathead minnow) factor (BCF): 7,060 - 13,300 est Guideline 305
Partition coefficient: n- octanol/water		:	log Pow: 8.023	
lambo	da-cyhalothrin (ISO):			
Bioac	cumulation	:		factor (BCF): 2,240 est Guideline 305
	on coefficient: n- ol/water	:	log Pow: 7.0 (68	°F / 20 °C)
Mobil	lity in soil			
<u>Comp</u>	oonents:			
Distrik	da-cyhalothrin (ISO): oution among environ- al compartments	:	log Koc: 5.5	
•	adverse effects			

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. (lambda-cyhalothrin (ISO))
Class	:	9
Packing group	÷	
Labels	÷	9
Environmentally hazardous	:	yes
IATA-DGR		



according to the OSHA Hazard Communication Standard

Lambda-Cyhalothrin / Decamethylcyclopentasiloxane Formulation

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UN/IC		:	UN 3082	
Prope	r shipping name	:	Environmentally f (lambda-cyhaloth	nazardous substance, liquid, n.o.s. hrin (ISO))
Class		:	9	
Packi	ng group	:	111	
Label	S	:	Miscellaneous	
	Packing instruction (cargo aircraft)		964	
Packing instruction (passen- ger aircraft)		:	964	
Environmentally hazardous		:	yes	
IMDG	-Code			
UN ni		:	UN 3082	
Prope	r shipping name	:		ALLY HAZARDOUS SUBSTANCE, LIQUID,
			(lambda-cyhaloth	rin (ISO))
Class		:	9	
Packi	ng group	:	III	
Labels	S	:	9	
EmS	Code	:	F-A, S-F	
Marin	e pollutant	:	yes	

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

Not applicable for product as supplied.

Domestic regulation

49 CFR

UN/ID/NA number	:	UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s. (lambda-cyhalothrin (ISO))
Class	:	9
Packing group	:	III
Labels	:	CLASS 9
ERG Code	:	171
Marine pollutant	:	yes(lambda-cyhalothrin (ISO))
Remarks	:	Above applies only to containers over 119 gallons or 450 liters.
		Shipment by ground under DOT is non-regulated; however it may be shipped per the applicable hazard classification to facilitate multi-modal transport involving ICAO (IATA) or IMO.

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.

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	A 304 Extremely Hazan material does not conta		Reportable Quantity with a section 304 EHS RQ.
	•		Threshold Planning Quantity with a section 302 EHS TPQ.
SAR/	A 311/312 Hazards	Specific target	(any route of exposure) t organ toxicity (single or repeated exposure) amage or eye irritation
SAR	A 313	known CAS n	does not contain any chemical components with umbers that exceed the threshold (De Minimis) Is established by SARA Title III, Section 313.
US S	tate Regulations		
Penn	sylvania Right To Kno	ow	
	Corn oil Decamethylcyclop	pentasiloxane	8001-30-7 541-02-6
WAR know			nicals including Formaldehyde, which is/are For more information go to
Califo	ornia Permissible Exp	osure Limits for Cl	nemical Contaminants
	Corn oil		8001-30-7
The i	ngredients of this pro	duct are reported i	n the following inventories:
AICS		: not determine	d
DSL		: not determine	d
IECS	С	: not determine	d

SECTION 16. OTHER INFORMATION

Further information





Lambda-Cyhalothrin / Decamethylcyclopentasiloxane Formulation

Version **Revision Date:** SDS Number: Date of last issue: 04/04/2023 7.0 09/30/2023 1078734-00018 Date of first issue: 11/18/2016 NFPA 704: HMIS® IV: Flammability HEALTH / 4 FLAMMABILITY 1 Health Instability 1 0 PHYSICAL HAZARD 0 HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents Special hazard a chronic hazard, while the "/" represents the absence of a chronic hazard. Full text of other abbreviations USA. ACGIH Threshold Limit Values (TLV) ACGIH NIOSH REL USA. NIOSH Recommended Exposure Limits **OSHA CARC OSHA Specifically Regulated Chemicals/Carcinogens** US WEEL USA. Workplace Environmental Exposure Levels (WEEL) ACGIH / TWA 8-hour, time-weighted average Short-term exposure limit ACGIH / STEL Time-weighted average concentration for up to a 10-hour NIOSH REL / TWA workday during a 40-hour workweek NIOSH REL / C Ceiling value not be exceeded at any time. **OSHA CARC / PEL** Permissible exposure limit (PEL) **Excursion** limit **OSHA CARC / STEL** 2 US WEEL / TWA 8-hr TWA

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 Oth-

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erwise 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 Amendments 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	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen-
Data Sheet		cy, http://echa.europa.eu/

Revision Date : 09/30/2023

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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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