

Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
6.0	28.09.2024	1078837-00021	Date of first issue: 18.11.2016

### **SECTION 1:** Identification of the substance/mixture and of the company/undertaking

	oduct identifier ade name	:	Lambda-Cyhalothrin / Decamethylcyclopentasiloxane Formu- lation
1.2 Rel	levant identified uses of th	ne s	substance or mixture and uses advised against
	se of the Sub- ance/Mixture	:	Veterinary product
	ecommended restrictions	:	Not applicable
1.3 Det	tails of the supplier of the	saf	ety data sheet
Co	ompany	:	MSD Kilsheelan Clonmel Tipperary, IE
Те	elephone	:	353-51-601000
	mail address of person sponsible for the SDS	:	EHSDATASTEWARD@msd.com

### 1.4 Emergency telephone number

1-908-423-6000

### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

### Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4	H332: Harmful if inhaled.
Acute toxicity, Category 4	H312: Harmful in contact with skin.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Specific target organ toxicity - single ex-	H371: May cause damage to organs.
posure, Category 2	
Short-term (acute) aquatic hazard, Cate-	H400: Very toxic to aquatic life.
gory 1	
Long-term (chronic) aquatic hazard, Cat-	H410: Very toxic to aquatic life with long lasting
egory 1	effects.

### 2.2 Label elements

### Labelling (REGULATION (EC) No 1272/2008)



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Hazard pictograms :		:		!
Signal	word	:	Warning	• •
Hazar	d statements	-	H319 Caus H371 May	armful in contact with skin or if inhaled. ses serious eye irritation. cause damage to organs. toxic to aquatic life with long lasting effects.
Preca	utionary statements		P280 Wea	d release to the environment. r protective gloves/ protective clothing/ eye ection/ face protection.
			P302 + P352 + P3 ter. ( unwe P308 + P311 IF CEN P337 + P313 If atten	···· exposed or concerned: Call a POISON TER/ doctor. eye irritation persists: Get medical advice/

### Hazardous components which must be listed on the label:

lambda-cyhalothrin (ISO)

### 2.3 Other hazards

This substance/mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### **SECTION 3: Composition/information on ingredients**

### 3.2 Mixtures

#### Components

Chemical	name	CAS-No.	Classification	Concentration
		EC-No.		(% w/w)
		Index-No.		
		Registration number		



Lambda-Cyhalothrin / Decamethylcyclopentasiloxane Formulation

rsion	Revision Date: 28.09.2024	SDS Number: 1078837-00021	Date of last issue: 06.04.2024 Date of first issue: 18.11.2016	
	a-cyhalothrin (ISO)	91465-08-6 415-130-7 607-252-00-6	Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 3; H311 Eye Irrit. 2; H319 STOT SE 1; H370 (Nervous system) Aquatic Acute 1; H400 Aquatic Chronic 1; H410>= 1 - < 2	2.5
	nd vPvB substance :	- <b>E</b> 44.00.0		10
Decan	nethylcyclopentasiloxan	e 541-02-6 208-764-9	>= 1 - <	10

For explanation of abbreviations see section 16.

### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
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).
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.



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		Get medical at Wash clothing Thoroughly cle	
In case of eye contact		for at least 15	emove contact lens, if worn.
If swallowed		so by medical Get medical at Rinse mouth th	
4.2 Most important symptoms and effects,			ute and delayed
Risks		Causes serious	tact with skin or if inhaled. s eye irritation. nage to organs.
	ion of our immediate		

### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment
-----------

: Treat symptomatically and supportively.

### **SECTION 5: Firefighting measures**

<b>5.1 Extinguishing media</b> Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
<ul> <li>5.2 Special hazards arising from Specific hazards during fire- fighting</li> <li>Hazardous combustion prod- ucts</li> </ul>	:	Vapours may form explosive mixtures with air. Exposure to combustion products may be a hazard to health.

### 5.3 Advice for firefighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.



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for fire	efighters	Use personal pro	ptective equipment.
Speci ods	fic extinguishing meth-	cumstances and Use water spray	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. aged containers from fire area if it is safe to do

### **SECTION 6: Accidental release measures**

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
6.2 Environmental precautions		
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.

#### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:	Soak up with inert absorbent material. For large spills, provide dyking or other appropriate contain- ment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor- bent.
		Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter- mine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

### **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

Technical measures	: See Engineering measures under EXPOSURE
	CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	: If sufficient ventilation is unavailable, use with local exhaust



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Advice on safe handling Hygiene measures		Do not breath Do not swallo Do not get in Wash skin the Handle in acc practice, base sessment Keep containe Do not eat, dr Take care to p environment. Do not breath : If exposure to flushing syste place. When to nated clothing The effective engineering c appropriate do	Do not get on skin or clothing. Do not breathe mist or vapours. 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 as- sessment 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				
7.2 Condit	tions for safe storage,	including any inc	ompatibilities				
	rements for storage and containers	tightly closed.	erly labelled containers. Store locked up. Keep Keep in a cool, well-ventilated place. Store in vith the particular national regulations.				
Advic	e on common storage	Strong oxidizi	substances and mixtures				
7.3 Specif	ic end use(s)						
-	fic use(s)	: No data availa	able				

### **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

### **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis	
lambda-cyhalothrin (ISO)	91465-08-6	TWA	5 μg/m3 (OEB 4)	Internal	
	Further information: Skin				



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11		Wipe limit	50 μg/100 cm²	Internal	I

### Occupational exposure limits of decomposition products

				<b>_</b> .			
Components	CAS-No.	Value type (Form	Control parameters	Basis			
		of exposure)					
Formaldehyde	50-00-0	TWA	0.3 ppm	2004/37/EC			
1 official derivation	00 00 0	10070	0.37 mg/m3	2004/01/20			
	Further inform	ation: Dermal sensit	isation, Carcinogens or muta	igens			
		STEL	0.6 ppm	2004/37/EC			
			0.74 mg/m3				
	Further inform	ation: Dermal sensit	isation, Carcinogens or muta	igens			
		OELV - 8 hrs	0.3 ppm	IE OEL			
		(TWA)	0.37 mg/m3				
	Further information: Chemical agents which following exposure may cause						
	sensitisation of	of the respiratory trac	t and lead to asthma, rhinitis	or extrinsic			
	allergic alveolitis, Carc 1B - Substances presumed to have carcinogenic po-						
	tential for hum			0 1			
		OELV - 15 min	0.6 ppm	IE OEL			
		(STEL)	0.738 mg/m3				
	Further information: Chemical agents which following exposure may cause						
	sensitisation of the respiratory tract and lead to asthma, rhinitis or extrinsic						
	allergic alveolitis, Carc 1B - Substances presumed to have carcinogenic po-						
	terniar for Hull		tential for humans				

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Decamethylcyclopen- tasiloxane	Workers	Inhalation	Long-term systemic effects	97.3 mg/m3
	Workers	Inhalation	Acute systemic ef- fects	62 mg/m3
	Workers	Inhalation	Long-term local ef- fects	24.2 mg/m3
	Consumers	Inhalation	Long-term systemic effects	17.3 mg/m3
	Consumers	Inhalation	Long-term local ef- fects	4.3 mg/m3
	Consumers	Ingestion	Long-term systemic effects	5 mg/kg bw/day

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006

Substance name	Environmental Compartment	Value
Decamethylcyclopentasiloxane	Sewage treatment plant	10 mg/l
	Fresh water sediment	11 mg/kg
	Marine sediment	1.1 mg/kg
	Soil	3.77 mg/kg
	Oral (Secondary Poisoning)	13 mg/kg food



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### 8.2 Exposure controls

### **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

Eye/face protection	:	Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.	
Material	:	Chemical-resistant gloves	
Remarks Skin and body protection	:	Consider double gloving. Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, dis- posable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.	
Respiratory protection	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Equipment should conform to I.S. EN 14387	
Filter type	:	Combined particulates, inorganic gas/vapour and organic vapour type (AB-P)	

### **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

Physical state	:	liquid
Colour	:	gold
Odour	:	oily
Odour Threshold	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available



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F	Flamma	ability (solid, gas)	:	Not applicable	
F	Flamma	ability (liquids)	:	No data available	2
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	)
F	Flash p	oint	:	> 93.3 °C Method: Tag clos	ed cup
/	Auto-igi	nition temperature	:	No data available	
[	Decom	position temperature	:	No data available	)
F	pН		:	No data available	9
١	Viscosit Visc	ty osity, kinematic	:	61.69 - 73.9 mm2	2/s
ŝ	Solubili Wate	ty(ies) er solubility	:	insoluble	
	Partitior octanol	n coefficient: n- /water	:	No data available	3
١	Vapour	pressure	:	No data available	)
F	Relative	e density	:	No data available	)
[	Density		:	0.924 - 0.974 g/c	m³ (20 °C)
F	Relative	e vapour density	:	No data available	9
F		characteristics icle size	:	Not applicable	
9.2 O	Other in	formation			
E	Explosi	ves	:	Not explosive	
(	Oxidizir	ng properties	:	The substance o	r mixture is not classified as oxidizing.
E	Evapora	ation rate	:	No data available	)
٦	Molecu	lar weight	:	Not applicable	



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### **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

Not classified as a reactivity hazard.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions	<ul> <li>Vapours may form explosive mixture with air.</li> <li>Can react with strong oxidizing agents.</li> <li>Hazardous decomposition products will be formed at elevated temperatures.</li> </ul>
40.4 Conditions to sucid	

# 10.4 Conditions to avoid

Conditions to avoid : N	None known.
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### 10.5 Incompatible materials

Materials to avoid	: Oxidizing ag	ents
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### **10.6 Hazardous decomposition products**

Thermal decom	position	:	Formaldehyde
	position	•	1 onnulaenyae

### **SECTION 11: Toxicological information**

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of : exposure	Inhalation Skin contact Ingestion Eye contact
A auto taviaitu	

### Acute toxicity

Harmful in contact with skin or if inhaled.

### Product:

Acute oral toxicity	:	LD50 (Rat): > 9,500 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 4.1 mg/l Remarks: No mortality observed at this dose.
Acute dermal toxicity	:	LD50 (Rabbit): > 1,900 mg/kg
Components:		

#### <u>components.</u>

lambda-cyhalothrin	(ISO):

Acute oral toxicity :	LD50 (Rat): 56 - 79 mg/kg
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II				
		LD50 (Mouse): 20	) mg/kg	
Acute inhalation toxicity	:	LC50 (Rat): 0.06 Exposure time: 4 Test atmosphere:	h	
Acute dermal toxicity	:	LD50 (Rat): 632 -	696 mg/kg	
Acute toxicity (other routes of administration)		LD50 (Rat): 250 - 750 mg/kg Application Route: Intraperitoneal		
Decamethylcyclopentasilo	oxane	:		
Acute oral toxicity	:	LD50 (Rat): > 5,0	00 mg/kg	
Acute inhalation toxicity	:	LC50 (Rat): 8.67 Exposure time: 4 Test atmosphere: Method: OECD T	h	
Acute dermal toxicity	:	LD50 (Rabbit): > Assessment: The toxicity	2,000 mg/kg substance or mixture has no acute dermal	
Acute dermal toxicity	:	Assessment: The		
		Assessment: The toxicity		
Skin corrosion/irritation		Assessment: The toxicity		
Skin corrosion/irritation Not classified based on avai		Assessment: The toxicity	substance or mixture has no acute dermal	
Skin corrosion/irritation Not classified based on avai <u>Product:</u> Species		Assessment: The toxicity information.	substance or mixture has no acute dermal	
Skin corrosion/irritation Not classified based on avai <u>Product:</u> Species Result <u>Components:</u>		Assessment: The toxicity information.	substance or mixture has no acute dermal	
Skin corrosion/irritation Not classified based on avai <u>Product:</u> Species Result		Assessment: The toxicity information.	substance or mixture has no acute dermal	
Skin corrosion/irritation Not classified based on avai <u>Product:</u> Species Result <u>Components:</u> Iambda-cyhalothrin (ISO): Species	ilable : :	Assessment: The toxicity information. Rabbit Mild skin irritation Rabbit No skin irritation	substance or mixture has no acute dermal	



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	Compo	onents:			
I	Specie	a-cyhalothrin (ISO):		Rabbit	
	Result	-	:	Mild eye irritation	
	Decom	othyloyolonontaciloy			
I	Specie	ethylcyclopentasilox		Rabbit	
	Result	-	:	No eye irritation	
	Respir	atory or skin sensitis	atio	n	
	-	ensitisation			
		ssified based on availa	able	information.	
	Respir	atory sensitisation			
	Not cla	ssified based on availa	able	information.	
	<u>Produc</u>	<u>::</u>			
	Specie: Result	S	:	Guinea pig Not a skin sensitiz	70r
	Result		·	NOL & SKIT SETSIL	201.
	Compo	onents:			
	lambda	a-cyhalothrin (ISO):			
	Test Ty		:	Magnusson-Kligm	nan-Test
	Exposu Specie:	ire routes s	:	Dermal Guinea pig	
	Result		:	Not a skin sensitiz	zer.
	Decam	ethylcyclopentasilox	ane		
I	Test Ty		:	Local lymph node	assav (LLNA)
	Exposi	ire routes	:	Skin contact	
	Specie	S	:	Mouse	
I	Result		:	negative	
	Germ o	cell mutagenicity			
	Not cla	ssified based on availa	able	information.	
	<u>Compo</u>	onents:			
	lambda	a-cyhalothrin (ISO):			
	Genoto	oxicity in vitro	:		rial reverse mutation assay (AMES)
				Result: negative	
					nosomal aberration
				Test system: Hun Result: negative	nan lymphocytes
				Result. negative	

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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		Test system: rat h Result: negative Test Type: In vitro	Test Type: In vitro mammalian cell gene mutation test Test system: mouse lymphoma cells				
G	enotoxicity in vivo	Species: Mouse Cell type: Bone m	Cell type: Bone marrow Application Route: Intraperitoneal				
De	ecamethylcyclopentasilox	ane:					
Ge	enotoxicity in vitro	: Test Type: Bacter Method: OECD T Result: negative	rial reverse mutation assay (AMES) est Guideline 471				
		Test Type: Chrom Method: OECD T Result: negative	nosome aberration test in vitro est Guideline 473				
		Test Type: In vitro Result: negative	o mammalian cell gene mutation test				
Ge	enotoxicity in vivo	cytogenetic assay Species: Rat	: inhalation (vapour)				
		mammalian liver of Species: Rat Application Route					

### Carcinogenicity

Not classified based on available information.

### Components:

### lambda-cyhalothrin (ISO):

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



according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

ersion D	Revision Date: 28.09.2024	SDS Number: 1078837-00021	Date of last issue: 06.04.2024 Date of first issue: 18.11.2016				
Species Application Route Exposure time Result Remarks		: Rat : oral (feed) : 2 Years : negative : Based on da	: oral (feed) : 2 Years				
Not c	oductive toxicity lassified based on avai	lable information.					
	<u>oonents:</u>						
	da-cyhalothrin (ISO): s on fertility	Species: Rat Application R General Toxi General Toxi Symptoms: R Result: No ef	hree-generation study coute: oral (feed) city - Parent: NOAEL: 2 mg/kg body weight city F1: LOAEL: 6.7 mg/kg body weight Reduced offspring weight gain fects on fertility sed on data from similar materials				
Effects on foetal develop- ment		Developmen Result: No ef body weight					
		Developmen Result: No ef body weight	obit				
Deca	methylcyclopentasilc	xane:					
Effect	s on fertility	Species: Rat Application R	coute: inhalation (vapour) PTS 870.3800				
Effect ment	s on foetal develop-	Species: Rat Application R	wo-generation reproduction toxicity study coute: inhalation (vapour) PTS 870.3800				



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II		Result: negative	9
II FOT9			
	Γ - single exposure cause damage to organ	IS.	
Com	ponents:		
lamb	da-cyhalothrin (ISO):		
Targe Asse	et Organs ssment	: Nervous system : Causes damage	
	<b>F - repeated exposure</b> lassified based on avail	able information.	
Repe	ated dose toxicity		
Com	ponents:		
lamb	da-cyhalothrin (ISO):		
Spec NOAI LOAE Applie Expo Symp Spec NOAI LOAE Applie Expo Targe NOAI LOAE Applie Expo	ies EL EL cation Route sure time otoms ies EL EL cation Route sure time et Organs ies EL EL EL cation Route sure time	<ul> <li>Dog</li> <li>2.5 mg/kg</li> <li>12.5 mg/kg</li> <li>oral (feed)</li> <li>90 d</li> <li>reduced body w</li> <li>Rat</li> <li>10 mg/kg</li> <li>50 mg/kg</li> <li>Dermal</li> <li>21 d</li> <li>Nervous system</li> <li>Rat</li> <li>0.08 mg/kg</li> <li>0.9 mg/kg</li> <li>Inhalation</li> <li>21 d</li> </ul>	reight gain, reduced food consumption
Spec NOAI LOAE Applie Expo Targe	EL	<ul> <li>Nervous system</li> <li>Dog</li> <li>0.1 mg/kg</li> <li>0.5 mg/kg</li> <li>Oral</li> <li>1 yr</li> <li>Nervous system</li> <li>Gastrointestinal Liver effects</li> </ul>	

### Decamethylcyclopentasiloxane:



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NOAE	EL	: 1,000 mg/kg	deline 408
LOAE	EL	: > 1,000 mg/kg	
Applio	cation Route	: Ingestion	
Metho	od	: OECD Test Gui	

### Aspiration toxicity

Not classified based on available information.

### 11.2 Information on other hazards

### **Endocrine disrupting properties**

### Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### Experience with human exposure

#### Product:

Skin contact Eye contact	<ul><li>Symptoms: May cause, Local irritation</li><li>Symptoms: irritating</li></ul>	
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### 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**

### 12.1 Toxicity

### Components:

lambda-cyhalothrin (ISO):	
Toxicity to fish	<ul> <li>LC50 (Oncorhynchus mykiss (rainbow trout)): 0.00019 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: Based on data from similar materials</li> </ul>
	LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.00021 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: Based on data from similar materials



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	ity to daphnia and other ic invertebrates	:	Exposure time: 48 Method: OECD Te	
M-Fae icity)	ctor (Acute aquatic tox-	:	10,000	
Toxic icity)	ity to fish (Chronic tox-	:	Method: OECD T	2 d ales promelas (fathead minnow)
	ity to daphnia and other ic invertebrates (Chron- icity)	:	Method: OECD To	l d magna (Water flea)
M-Factoria	ctor (Chronic aquatic	:	10,000	
Deca	methylcyclopentasilox	ane	:	
	ity to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): > 16 μg/l δ h city at the limit of solubility
	ity to daphnia and other ic invertebrates	:	Exposure time: 48 Method: OECD Te	
Toxic plants	ity to algae/aquatic	:	μg/l Exposure time: 96 Method: OECD To	
			μg/l Exposure time: 96 Method: OECD To	
Toxic	ity to microorganisms	:	EC50 : > 2,000 m Exposure time: 3 Method: 88/302/E	ĥ
Toxic icity)	ity to fish (Chronic tox-	:	NOEC: 14 µg/l Exposure time: 90	) d

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



# Lambda-Cyhalothrin / Decamethylcyclopentasiloxane Formulation

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			Method: OECD T	nchus mykiss (rainbow trout) est Guideline 210 city at the limit of solubility
	y to daphnia and other c invertebrates (Chron- ity)	:	Method: OECD T	i magna (Water flea)
12.2 Persis	stence and degradabil	ity		
Comp	onents:			
	nethylcyclopentasilox	ane	:	
Biodeg	<b>jradability</b>	:	Result: Not readil Biodegradation: Exposure time: 28 Method: OECD T	0.14 %
12.3 Bioac	cumulative potential			
Comp	onents:			
lambd	a-cyhalothrin (ISO):			
Bioacc	umulation	:		factor (BCF): 2,240 est Guideline 305
Partitic octano	on coefficient: n- I/water	:	log Pow: 7.0 (20 °	°C)
	nethylcyclopentasilox	ane	:	
Bioacc	umulation	:	Bioconcentration	ales promelas (fathead minnow) factor (BCF): 7,060 - 13,300 est Guideline 305
	on coefficient: n- I/water	:	log Pow: 8.023	

### 12.4 Mobility in soil

### **Components:**

# lambda-cyhalothrin (ISO):

Distribution among environ-	:	log Koc: 5.5
mental compartments		

### 12.5 Results of PBT and vPvB assessment

### Product:

Assessment

: This substance/mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT), or very



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		persistent and	very bioaccumulative (vPvB).			
Com	ponents:					
Deca	methylcyclopentasilo	xane:				
Asses	ssment	: Substance is p	persistent, bioaccumulative, and toxic (PBT).			
		: Substance is v	very persistent and very bioaccumulative (vPvB).			
12.6 Endo	ocrine disrupting prop	perties				
Prod	uct:					
Asses	ssment	ered to have e REACH Article	e/mixture does not contain components consid- ndocrine disrupting properties according to a 57(f) or Commission Delegated regulation 00 or Commission Regulation (EU) 2018/605 at or higher.			
	<b>r adverse effects</b> ata available					
SECTION	13: Disposal cons	iderations				
13.1 Wast	e treatment methods					
Produ	uct	<ul> <li>Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. Do not dispose of waste into sewer.</li> </ul>				
Conta	aminated packaging	: Empty contain dling site for re				

### **SECTION 14: Transport information**

14.1 UN number or ID number		
ADN	:	UN 3082
ADR	:	UN 3082
RID	:	UN 3082
IMDG	:	UN 3082
ΙΑΤΑ	:	UN 3082

### 14.2 UN proper shipping name

ADN

: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,



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			N.O.S. (lambda-cyhaloth	rin (ISO))
ADR		:	ENVIRONMENT/ N.O.S. (lambda-cyhaloth	ALLY HAZARDOUS SUBSTANCE, LIQUID,
RID		:	ENVIRONMENTA N.O.S. (lambda-cyhaloth	ALLY HAZARDOUS SUBSTANCE, LIQUID,
IMDG		:	ENVIRONMENT/ N.O.S. (lambda-cyhaloth	ALLY HAZARDOUS SUBSTANCE, LIQUID,
ΙΑΤΑ		:	Environmentally h (lambda-cyhaloth	nazardous substance, liquid, n.o.s. rin (ISO))
14.3 Transp	oort hazard class(es)			
			Class	Subsidiary risks
ADN		:	9	
ADR		:	9	
RID		:	9	
IMDG		:	9	
ΙΑΤΑ		:	9	
14.4 Packin	ig group			
	g group cation Code Identification Number	:	III M6 90 9	
<b>ADR</b> Packing Classifi Hazard Labels	g group cation Code Identification Number restriction code	:	III M6 90 9 (-)	
	g group cation Code Identification Number	:	III M6 90 9	
<b>IMDG</b> Packing Labels EmS C		:	III 9 F-A, S-F	
ΙΑΤΑ (Ο	Cargo)			



Version Revis 6.0 28.09	ion Date: .2024		S Number: 78837-00021	Date of last issue: 06.04.2024 Date of first issue: 18.11.2016
Packing instru aircraft) Packing instru Packing group Labels	ction (LQ)	::	964 Y964 III Miscellaneous	
IATA (Passer Packing instru ger aircraft) Packing instru Packing group Labels	ction (passen-	:	964 Y964 III Miscellaneous	
14.5 Environmental hazards				
ADN Environmenta ADR		:	yes	
Environmenta <b>RID</b> Environmenta		:	yes	
IMDG Marine polluta	nt	:	yes	
<b>IATA (Passer</b> Environmenta	• /	:	yes	
<b>IATA (Cargo)</b> Environmenta		:	yes	

### 14.6 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.

### 14.7 Maritime transport in bulk according to IMO instruments

Remarks

: Not applicable for product as supplied.

### **SECTION 15: Regulatory information**

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances,

: Conditions of restriction for the following entries should be considered: Number on list 3

Number on list 70: Decamethylcyclopentasiloxane



# Lambda-Cyhalothrin / Decamethylcyclopentasiloxane Formulation

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mixtu	ires and articles (Annex	XVII)		
		,		Substance(s) or mixture(s) are listed here according to their appearance in the regulation, irrespective of their use/purpose or the conditions of the restriction. Please refer to the condi- tions in corresponding Regulation to determine whether an entry is appli- cable to the placing on the market or not.
	CH - Candidate List of S ern for Authorisation (A		n :	Decamethylcyclopentasiloxane
	lation (EC) on substand		one :	Not applicable
Regu	llation (EU) 2019/1021 c (recast)	on persistent organic po	ollu- :	Not applicable
Regu ment	lation (EU) No 649/2012 and the Council concer ngerous chemicals	•		Not applicable
REA	CH - List of substances ex XIV)	subject to authorisatior	n :	Not applicable
Seve				t and of the Council on the control of
Seve	so III: Directive 2012/18			t and of the Council on the control of

		Quantity 1	Quantity 2
E1	ENVIRONMENTAL HAZARDS	100 t	200 t
	HAZARDO		

### Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

### The components of this product are reported in the following inventories:

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

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

### **SECTION 16: Other information**

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

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



# Lambda-Cyhalothrin / Decamethylcyclopentasiloxane Formulation

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Full	text of H-Statements				
H30	1	:	Toxic if swallow	ved.	
H31	1	:	Toxic in contac	t with skin.	
H319	9	:	Causes serious	s eye irritation.	
H33	0	:	Fatal if inhaled.		
H37	C	:	Causes damag		
H40	C		Very toxic to ac		
H410	0	:	Very toxic to ac	uatic life with long lasting effects.	
Full	text of other abbrevia	ations			
Acut	e Tox.	:	Acute toxicity		
Aqua	atic Acute	:	Short-term (acu	ite) aquatic hazard	
	atic Chronic	:		onic) aquatic hazard	
Eye		:	Eye irritation		
	STOT SE		Specific target organ toxicity - single exposure		
2004	I/37/EC			ve 2004/37/EC on the protection of workers elated to exposure to carcinogens or mutagens	
IE O	EL	:		Chemical Agents and Carcinogens with Occu- ure Limit Values - Code of Practice, Schedule 1	
2004	I/37/EC / STEL	:	Short term expe	osure limit	
2004	I/37/EC / TWA	:	Long term expo	osure limit	
IE O	EL / OELV - 8 hrs (TW	'A) :	Occupational e	xposure limit value (8-hour reference period)	
IE O (STE	EL / OELV - 15 min EL)	:	Occupational e od)	xposure limit value (15-minute reference peri-	

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; 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; 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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 - (Quanti-



Classification procedure:

### Lambda-Cyhalothrin / Decamethylcyclopentasiloxane Formulation

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tative) 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

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

#### **Classification of the mixture:**

Acute Tox. 4	H332	Based on product data or assessment
Acute Tox. 4	H312	Based on product data or assessment
Eye Irrit. 2	H319	Based on product data or assessment
STOT SE 2	H371	Calculation method
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 1	H410	Calculation method

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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.

IE / EN