

SAFETY DATA SHEET

The Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Lambda Cyhalothrin 9.7 EW

Revision date 31-Dec-2023

Version 3 Supersedes Date: 20-Feb-2019 ADM.02750.1.2.A Product Code(s) INS00099-972 9501784

1. Identification

Print Date 01-Jan-2024

Product identifier

Lambda Cyhalothrin 9.7 EW

Other means of identification

Synonyms	Senior
Formulation type	EW
Pure substance/mixture	Mixture

Recommended use of the chemical and restrictions on use

Recommended use	Insecticide
Uses advised against	No information available

Detailed information about the manufacturer, supplier, and/or importer

Supplier ADAMA Makhteshim Ltd PO Box 60 Beer Sheva 8410001 Israel

Emergency telephone number

Emergency Telephone	ADAMA Makhteshim: + 972 8 6560800/801 ; + 972 8 6296713/714 ADAMA Agan : + 972 8 8515341
E-mail address	SDS@ADAMA.COM

2. Hazard(s) identification

Classification of the substance or mixture

Acute toxicity - Oral	Category 4 - (H302)
Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)
Acute aquatic toxicity	Category 1 - (H400)
Chronic aquatic toxicity	Category 1 - (H410)

Label elements

Signal word

Warning

Hazard pictograms

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Hazard statements	H302 - Harmful if swallowed H332 - Harmful if inhaled
	H410 - Very toxic to aquatic life with long lasting effects
Precautionary statements	 P102 - Keep out of reach of children P270 - Do not eat, drink or smoke when using this product P280 - Wear protective gloves/protective clothing/eye protection/face protection P302 + P352 - IF ON SKIN: Wash with plenty of soap and water P501 - Dispose of contents/ container to an approved waste disposal plant

Other hazards

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

3. Composition/information on ingredients

Substance

Not applicable

<u>Mixture</u>

Synonyms

Senior

Chemical name	CAS No	Weight-%	EC No	INTERNATIONAL GHS CLASSIFICATION	M-Factor
lambda-cyhalothrin	91465-08-6	7-11	415-130-7	Acute Tox. 3 (H301) Acute Tox. 4 (H312) Acute Tox. 2 (H330) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	M=10000
Acetophenone	98-86-2	7-11	202-708-7	Acute Tox. 4 (H302) Eye Irrit. 2 (H319)	

Full text of H- and EUH-phrases: see section 16

4. First-aid measures

Description of necessary first aid measures

General advice	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). First aider: Pay attention to self-protection.
Inhalation	Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary.

Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.		
Ingestion	Rinse mouth. Drink plenty of water. Get medical attention immediately if symptoms occur.		
For emergency responders			
Self-protection of the first aider	Use personal protective equipment as required.		
Most important symptoms/effects, a	cute and delayed		
Symptoms	None known.		
Indication of immediate medical atte	ention and special treatment needed, if necessary		
Note to physicians	Treat symptomatically.		
5. Fire-fighting measures			
Suitable Extinguishing Media			
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.		
Specific hazards arising from the ch	emical		
Specific hazards arising from the chemical	No information available.		
Explosive properties	No data available.		
Specific/special fire-fighting measur	es		
Specific/special fire-fighting measures	No information available.		
Special protective equipment and protective eq	recautions for fire-fighters		
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.		
6. Accidental release meas	ures		
Personal precautions, protective eq	uipment and emergency procedures		
Personal precautions	Ensure adequate ventilation. Avoid generation of dust. Do not breathe dust. Use personal protective equipment as required.		
Environmental precautions			
Environmental precautions	See Section 12 for additional Ecological Information.		
Methods and material for containment and cleaning up			

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Pick up and transfer to properly labeled containers.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.
Other information	Refer to protective measures listed in Sections 7 and 8.

7. Handling and storage

Preventive measures for safe handling

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid breathing dust/fume/gas/mist/vapors/spray. Ensure adequate ventilation. Do not eat, drink or smoke when using this product.	
Precautions for safe handling		
General hygiene considerations	Avoid breathing dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product.	
Conditions for safe storage, including any incompatibilities		
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.	

8. Exposure controls/personal protection

Control parameters

Exposure guidelines

Chemical name	ACGIH TLV
Acetophenone	TWA: 10 ppm
98-86-2	

Appropriate engineering controls

Engineering controls	Ensure adequate ventilation, especially in confined areas.
Individual protection measures, suc	ch as personal protective equipment
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Hand protection	Wear suitable gloves.
Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin and body protection	Wear suitable protective clothing.
General hygiene considerations	Avoid breathing dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product.
Environmental exposure controls	Local authorities should be advised if significant spillages cannot be contained.

9. Physical and chemical properties

Information on basic physical and chemical properties

Property Appearance	Values	Method	Remarks
Physical state	: Liquid		
Color	: white		
Odor	: characteristic		
Odor threshold	: No data available		
pH Malting point (freezing point %)	: 4.8 - 5.8	CIPAC MT 75	1 % aqueous solution
Melting point / freezing point °C Boiling point / boiling range °C	: No data available : No data available		
Boiling point / boiling range °C Flash point °C	: No data available		
Evaporation rate	· _		No data available
Flammability (solid, gas)	Not applicable		
Upper/lower flammability or	: No data available		
explosive limits			
Vapor pressure kPa	: No data available		Not applicable
Vapor density	: No data available		
Relative density	: 1.0 - 1.1	CIPAC MT 3	20 °C
Solubility(ies) mg/l	: No data available		Not applicable
Partition coefficient Log Pow	:		See Section 12 for additional Ecological Information
Autoignition temperature °C	: No data available		
Decomposition temperature °C	: No data available		
Kinematic viscosity mm2/s 40 °C	: 78.676	ASTM D445/D446	
Explosive properties	: No data available		
Oxidizing properties	: Incompatible with oxidizing	44 Federal register	
	agents: 10% Potassium		
	permanganate		N I I
Surface tension	: No data available		No data available
Particle Size	: Not applicable		
Other information			
Bulk density g/ml	: Not applicable		

Bulk density g/ml

10. Stability and reactivity

<u>Reactivity</u>	
Reactivity	No information available.
Chemical stability	
Stability	Stable under normal conditions.
Explosion data Sensitivity to mechanical impact Sensitivity to static discharge	None.
Possibility of hazardous reactions	
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	
Conditions to avoid	Excessive heat.
Incompatible materials	

Incompatible materials

None known based on information supplied.

Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

11. Toxicological information

Information on toxicological effects

Acute toxicity

Oral LD50 mg/kg Dermal LD50 mg/kg Inhalation LC50 LC50 Skin corrosion/irritation Serious eye damage/eye irritation Sensitization		Values 310.2 > 5000 2.02 Mild skin irritant Not irritating to eyes Not a skin sensitizer	<u>Species</u> Rat Rat Rat Rabbit Rabbit Guinea pig	Method OPPTS 870.110 OPPTS 870.120 OPPTS 870.130 OPPTS 870.250 OPPTS 870.240 OPPTS 870.260	0 0 0 0
Chronic toxicity					
Germ cell mutagenicity Chemical name lambda-cyhalothrin	:	Not classified			
Carcinogenicity Chemical name lambda-cyhalothrin	:	Not Carcinogenic			
Reproductive toxicity . Chemical name lambda-cyhalothrin	:	Not toxic for the reproductive	system		
STOT - Single Exposure Chemical name lambda-cyhalothrin	:	No data available			
STOT - Repeated Exposure Chemical name lambda-cyhalothrin	:	No data available			
Aspiration hazard Chemical name lambda-cyhalothrin	:	No data available			

12. Ecological information

Ecotoxicity

Aquatic toxicity				
Acute toxicity	<u>Values</u>	Species	Method	<u>Remarks</u>
Fish 96-hour LC50 mg/l	: No data available			No data available
Crustacea 48-hour EC50 mg/l	: No data available			No data available
Algae 72-hour EC50 mg/l	: No data available			No data available
Other plants EC50 mg/l	: No data available			No data available

INS00099-972 - Lambda Cyhalothrin 9.7 EW

Chronic aquatic toxicity Fish NOEC mg/l Crustacea NOEC mg/l Algae NOEC mg/l Other plants NOEC mg/l	ValuesNo data availableNo data availableNo data availableNo data availableNo data available	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
Terrestrial Toxicity Birds Oral LD50 mg/kg Chemical name lambda-cyhalothrin	: > 3950	Mallard duck		
Bees Oral LD50 μg/bee Chemical name lambda-cyhalothrin	: 0.909			
Abiotic Degradation Water DT50 days Chemical name lambda-cyhalothrin	:			No data available
Soil DT50 days Chemical name lambda-cyhalothrin	:			No data available
Biodegradation Chemical name lambda-cyhalothrin	: No data available)		
Log Pow	Values		Method	<u>Remarks</u>
Bioconcentration factor (BCF) Chemical name lambda-cyhalothrin	:			Low bioaccumulation potential
Adsorption/Desorption Chemical name lambda-cyhalothrin	<u>Values</u>		Method	Remarks Low mobility in soil

13. Disposal considerations

Dispos	al meth	nods

Waste from residues/unused products	Dispose of waste in accordance with environmental legislation. Dispose of in accordance with local regulations.
Contaminated packaging	Improper disposal or reuse of this container may be dangerous and illegal.

14. Transport information

ADR	
14.1 UN number	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (lambda-cyhalothrin)
14.3 Transport hazard class(es)	9
Labels	9
14.4 Packing group	
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

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* Note: UN3077 & UN3082 – These products may be transported as non-dangerous goods under the special provisions of IMDG Code 2.10.2.7; ADR SP375 and ICAO/IATA A197 when packed in single or inner packaging of up to 5L for liquids or 5 kg or less for solids

15. Regulatory information

Safety, health and environmental regulations specific for the product in question

16. Other information

Full text of H-Statements referred to under section 3 H301 - Toxic if swallowed H302 - Harmful if swallowed H312 - Harmful in contact with skin H319 - Causes serious eye irritation H330 - Fatal if inhaled H400 - Very toxic to aquatic life H410 - Very toxic to aquatic life with long lasting effects				
Date of preparation of the SDS	No data available			
Revision date	31-Dec-2023			
Revision Note	Changes made to the last versi	on are labeled with th	is sign ***.	
Key or legend to abbreviations and	acronyms used in the safety d	ata sheet		
IMDGInternational Maritime Dangerous Goods (IMDG)IATAInternational Air Transport Association (IATA)ADREuropean Agreement concerning the International Carriage of Dangerous Goods by RoadLegendSection 8: EXPOSURE CONTROLS/PERSONAL PROTECTION				
TWA TWA (time-weight Ceiling Maximum limit val			(Short Term Exposure Limit) esignation	
Abbreviations and acronyms ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways CAS Number - Chemical Abstracts Service number EC Number - EINECS and ELINCS Number EINECS - European Inventory of Existing Commercial Substances ELINCS - European List of notified Chemical Substances IATA - International Air Transport Association ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air IMDG - International Maritime Dangerous Goods LC50 - Lethal Concentration to 50 % of a test population LD50 - Lethal Dose to 50% of a test population MBT - Persistent, Bioaccumulative and Toxic substance RID - Regulations concerning the International Carriage of Dangerous Goods by Rail STOT - Specific Target Organ Toxicity vPvB - Very Persistent and Very Bioaccumulative				
The Globally Harmonized System of Classification and Labeling of Chemicals (GHS)Classification of the mixtureClassification procedureH302 - Harmful if swallowedClassification based on test dataH332 - Harmful if inhaledClassification based on test dataH400 - Very toxic to aquatic lifeClassification based on Calculation methodH410 - Very toxic to aquatic life with long lasting effectsClassification based on Calculation method				

Disclaimer

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 given is designed only as a guidance for safe handling, use, processing, storage,

transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet