

SEKILAS KARISMA (M) SDN. BHD.
(Co. No. 528804-T)
No.11-2, Jalan Meranti SD 13/4,
Bandar Sri Damansara,
52200 Kuala Lumpur, Malaysia.
Tel: 03-6277 4758 Fax: 03-6272 9528

SAFETY DATA SHEET

LAMBDA-CYHALOTHRIN 2.5% EC

CAS Number: 91465-08-6

Trade Name: D-CYHALOTHRIN

Common Name: Lambda Cyhalothrin

Chemical Name: Reaction product comprising equal quantities of (S)- α -cyano-3-phenoxybenzyl (Z)-(IR,3R)-3-(2-chloro-3,3,3-trifluoropropenyl)-2,2-dimethylcyclopropanecarboxylate and (R)- α -cyano-3-phenoxybenzyl (Z)-(IS,3S)-3-(2-chloro-3,3,3-trifluoropropenyl)-2,2-dimethylcyclopropanecarboxylate or of (S)- α -cyano-3-phenoxybenzyl (Z)-(IR)-cis-3-(2-chloro-3,3,3-trifluoropropenyl)-2,2-dimethylcyclopropanecarboxylate and (R)- α -cyano-3-phenoxybenzyl (Z)-(IS)-cis-3-(2-chloro-3,3,3-trifluoropropenyl)-2,2-dimethylcyclopropanecarboxylate

Chemical Formula: $C_{23}H_{19}ClF_3NO_3$

Chemical Class: Pyrethroid

1. SUBSTANCE/ PREPARATION AND COMPANY IDENTIFICATION

Chemical nature: Insecticide

Distributor: **Sekilas Karisma (M) Sdn. Bhd.**
No.11-2, Jalan Meranti SD 13/4,
Bandar Sri Damansara,
52200 Kuala Lumpur
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2. COMPOSITION/ INFORMATION ON INGREDIENTS

S.No	Ingredient	Concentration (%)
i.	LAMBDA CYHALOTHRIN	2.7% min
ii.	Other ingredients	97.3% max

3. HAZARDS IDENTIFICATION OF PREPARATION

Classification of the substance or mixture

Classification according to EU Directives 67/548/EEC or 1999/45/EC

T Toxic

N Dangerous for the environment

- R10 Flammable
R22 Harmful if swallowed
R23 Toxic by inhalation
R37/38 Irritating to respiratory system and skin
R41 Risk of serious damage to eyes
R50/53 Very toxic to aquatic organism, may cause long term adverse effects in the aquatic environment
R65 Harmful: May cause lung damage if swallowed

Label Elements

Labelling Regulation (EC) No. 1272/2008

Hazard pictograms



Signal Word: Danger

Hazard Statements

- H226 Flammable liquid and vapor
H302 Harmful if swallowed
H304 May be fatal if swallowed and enters airways
H315 Causes skin irritation
H318 Causes serious eye damage
H331 Toxic if inhaled
H335 May cause respiratory irritation
H336 May cause drowsiness or dizziness
H410 very toxic to aquatic life with long lasting effects

Precautionary Statements

- P102 Keep out of reach of children
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P280 Wear protective gloves, protective clothing, and eye protection and face protection
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses. If present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/ physician
P331 Do NOT induce vomiting
P501 Dispose of contents/ container to an approved waste disposal plant

4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or poison information center.

Ingestion: If swallowed, do not give any liquid to the person. Do not induce vomiting unless told to do so by a doctor. Do not give anything by mouth to an unconscious person.

Eye contact: If in eyes, hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present after 5 minutes then continue rinsing eye.

Skin contact: If on skin or clothing. Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.

Inhalation: If inhaled, move person to fresh air. If person is not breathing, call an ambulance, then give artificial respiration, preferably mouth to mouth if possible.

Notes to Physician: There is no specific antidote if this product is ingested. Treated symptomatically. Skin contact paresthesia effects (itching, tingling, burning or numbness) are transient, lasting up to 24hours. Treat symptomatically.

5. FIRE FIGHTING MEASURES

Fire and Explosion

Flash Point: >115 °F

Flammable Limits (% in air): Not Available

Auto ignition Temperature: Not Available

Flammability: The product is flammable liquid

In case of fire: Use dry chemical, foam or CO₂, extinguishing media. Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area and equipment until decontaminated. Water runoff can cause environmental damage, if water is used to fight fire, dike and collect runoff.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Keep people away from and upwind of spill/ leak

Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Remove all sources of ignition

Pay attention to flashback.

Environmental Precautions

Prevent further leakage or spillage if safe to do so.

Do not flush into surface water or sanitary sewer system.

Methods and materials for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal to local/ national regulations

If the product contaminates rivers and lakes or drains inform respective authorities.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid contact with skin and eyes

When using do not eat, drink or smoke

Use only in an area containing flame proof equipment

Take precautionary measures against static discharge

Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place

Keep out of the reach of children

Keep away from combustible material

Keep in an area equipped with sprinkles

Keep away from food, drink and animal feeding stuffs

No smoking.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Engineering Measures: Containment and/ or segregation is the most reliable technical protection measure if exposure cannot be eliminated. The extent of these protection measures depends on the actual risks in use. If airborne mists or vapors are generated, use local exhaust ventilation controls. Assess exposure and use any additional measures to keep airborne levels below any relevant exposure limit. Where necessary, seek additional occupational hygiene advice.

Ingestion: Prevent eating, drinking, tobacco usage and cosmetic application in area where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Eye protections: Where eye contact is likely, use chemical splash goggles. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Skin protection: Where contact is likely, wear chemical-resistant (such as nitrile or butyl) gloves, coveralls, socks and chemical resistant footwear. For overhead exposure, wear chemical-resistant headgear. Stringent housekeeping measures are necessary to prevent translocation of the material from contaminated work surfaces to uncontaminated surfaces.

Inhalation: Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below exposure limits. A NOISH-certified combination air-purifying with an N,P, or R 95 or HE class filter and an organic vapor cartridge may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air-purifying respirators is limited. Use a pressure demand atmosphere-supplying respirator if there is any potential for uncontrolled release, exposure levels are not known, or under any other circumstances where air purifying may not provide adequate protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Light yellow homogeneous liquid with some solvent odour
Density	: Not Available.
Suspensibility	: Not Available
Viscosity	: Not Available
Wettability	: Not Available, since the product is an emulsion
Storage Stability	: The product is stable under normal conditions of warehouse storage
Flash point	: 115°F, The product is a flammable liquid

10. STABILITY AND REACTIVITY

Stability	: Stable under standard conditions
Hazardous polymerization	: Will not occur
Conditions to avoid	: None known
Material to avoid	: Oxidizing agents
Hazardous decomposition products:	can decompose at high temperature forming toxic gases.

11. TOXICOLOGICAL INFORMATION (Technical)

Acute LD50 Oral Rat	: male 79, female 56, male mice 19, female mice 31mg/kg
Acute LD50 Dermal	: rats 1293-1507 mg/kg, mild eye irritant; non skin irritant (rabbits), not a skin sensitizer (guinea pigs)
Acute LD50 Inhalation	: LC50 (4 h) 0.06 mg/L
NOEL	: 1y for dogs 0.05 mg/kg daily
Mutagenic Data	: Non mutagenic in the ames test.

12. ECOLOGICAL INFORMATION (Technical)

Fish toxicity:	LC50 for bluegill sunfish 0.21, rainbow trout 0.24 µg/L
Bird toxicity:	LD50 for mallard duck >3950 mg/kg. Dietary LC50 for quail >5000mg/kg. No accumulation of residues in eggs or tissues.
Bee toxicity:	LD50 (oral): 38 ng/bee, Contact: 909 ng/bee
Daphnia:	LC50 (48h) 0.36 µg/L

13. DISPOSAL CONSIDERATION

Product:

Do not contaminate ponds, waterways or ditches with chemical or used container.
Do not dispose of water into sewer.
Where possible recycling is preferred to disposal or incineration.
If recycling is not practicable, dispose of in compliance with local regulations

Contaminated Packaging:

Empty remaining contents
Triple rinse containers
Empty containers should be taken to an approved waste handling site for recycling or disposal
Do not re-use empty containers.

14. TRANSPORT INFORMATION

DOT Classification :

Pyrethroid Pesticide, Liquid, Toxic, Flammable, N.O.S (contains lambda-cyhalothrin), 6.1 (3), UN3351, PGIII

Comments:

International Transportation

Pyrethroid Pesticide, Liquid Toxic, Flammable, N.O.S (contains lambda-cyhalothrin), 6.1 (3), UN3351, PGIII

15. REGULATOR INFORMATION

EPCRA SARA Title III Classification

Section 311/312 Hazard Classes : Acute Health Hazard
Chronic Health Hazard
Fire Hazard

Section 313 Toxic chemicals : Not Available

RCRA Hazardous Waste Classification (40 CFR 261)

Not available

TSCA Status

Exempt from TSCA, subject to FIFRA

16. DISCLAIMER

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

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