

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product name: LANBDACYHALOTHHRIN 5% EC
Use / description of product: Use as an agricultural/horticultural insecticide
Company name: INDOFIL INDUSTRIES LIMITED
Kalpataru Square, 4th Floor,
Kondivita Road, Off. Andheri Kurla Road, Andheri (E),
Mumbai 400 059, Maharashtra, India.
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2. HAZARDS IDENTIFICATION**GHS Classification****Hazard Symbol****Signal word:****DANGER****Hazard statement(s):**

H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters
H316 Causes mild skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H330 Fatal if inhaled.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs through
prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting
Effects

P101 If medical advice is needed, have product container or
label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
P391 Collect spillage.
P332 + P313 If skin irritation occurs: Get medical
advice/attention.
P501 Dispose of contents and container to hazardous or
special waste collection point

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	CAS	%
Active ingredient (Lambda cyhalothrin)	91465-08-6	5
Other ingredients	-----	QS to make up 100

4. FIRST AID MEASURES

Most Important symptoms and effects, both acute and delayed

Skin contact	Not irritant
Eye contact	Not irritant
Ingestion	Mild soreness to the mouth.

Description of first aid measures

In general	Have the product container, label or Safety Data Sheet with you when calling the emergency number, a poison control center or physician, or going for treatment..
After Ingestion	Take the victim into fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest Call a physician or poison control center immediately.
After eye contact	Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.
After skin contact	Immediately wash skin with soap and plenty of water. Consult a physician if irritation develops.
After Inhalation	Remove to fresh air. Consult a physician if irritation develops

Indication of any immediate medical attention and special treatment needed

Supportive care. No specific antidote. Treatment based on judgement of physician, in response to symptoms of patient.

5. FIRE-FIGHTING MEASURES

Extinguishing media:	Sprayed water jet, foam, extinguishing powder, CO2, Sand. Fight fire in early stages if safe to do so.
Exposure hazards:	Exposure to decomposition products may be a hazard to health.
Protection of fire-fighters:	Respirator with independent air supply. Contain firefighting water. In the event of fire, the formation of hydrogen chloride, hydrogen cyanide, carbon monoxide, sulphur dioxide and nitrogen oxides must be anticipated.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Eliminate all sources of ignition. Do not create dust.
Environmental precautions:	Do not discharge into drains or rivers. Contain the spillage using bunding.
Clean-up procedures:	Transfer to a closable, labelled salvage container for disposal by an appropriate method. Do not use equipment in clean-up procedure which may produce sparks.

7. HANDLING AND STORAGE

Handling requirements:	Ensure there is sufficient ventilation of the area. Smoking is forbidden. Use non-sparking tools. When handling do not eat, drink or smoke.
Storage conditions:	Store in cool, well ventilated area. Keep away from sources of

ignition. Keep container tightly closed. Keep in original containers, out of reach of children Never allow the product to become wet during storage. This may lead to chemical changes, which will reduce the effectiveness as an insecticide and could create flammable vapours.

Suitable packaging:

Must only be kept in original packaging.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures:

No open flames. Prevent deposition of dust. Use closed system, consider use of explosion-proof electrical equipment and lighting. Use local exhaust at all process locations. Ventilate all transport vehicles prior to unloading.

Respiratory protection:

For protection against exposures wear, as a minimum, a properly fitted half – face or full-face air purifying respirator, which is approved for pesticides (U.S. NIOSH/MSHA, EU CEN or comparable certification organization). Respirator use and selection must be based on airborne concentration.

Hand protection:

Wear chemical protective gloves made of material such as rubber or neoprene. Thoroughly wash the outside of gloves soap and water prior to removal. Inspect regularly for leaks.

Eye protection:

Safety goggles.

Skin protection:

Mixers and loaders must wear overalls, protective goggles and chemical-resistant apron.

Applicators and other handlers must wear overalls, goggles and waterproof gloves. Any clothing or other absorbent material which has been drenched or heavily contaminated must be discarded.

9. PHYSICAL AND CHEMICAL PROPERTIES

State:	Liquid
Colour:	Yellow to light yellow
Odour:	Slight
Solubility in water:	Forms emulsion in water
pH	NA
Flash point °C:	NA

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to avoid:	Excessive heat and fire.

11. TOXICOLOGICAL INFORMATION

Hazardous ingredients:	LAMBACYHALOTHRIN
<u>Acute toxicity (Assessment largely or completely based on data for active substance)</u>	
Acute Oral LD ₅₀ (Rat)	200 mg/kg
Acute Dermal LD ₅₀	> 2000 mg/kg
Acute Inhalation LD ₅₀	5 mg/L
EYE Irritation (Rabbit)	Non irritant
SKIN Irritation (Rabbit)	Non irritant
Skin Sensitization (Guinea Pig)	Non irritant

12. ECOLOGICAL INFORMATION

Ecotoxicity: (Assessment largely or completely based on data for active substance)

Aquatic toxicity :	Material is very toxic to aquatic organisms.
Fish	0.36 µg/L
Bee	909 ng/bee
Daphnia EC₅₀ (48 hr)	0.36 µg/L

13. DISPOSAL CONSIDERATIONS

Disposal operations:	Open dumping or burning of this material or its packing is prohibited. If spilled material cannot be disposed of by use according to label instructions, an acceptable method of disposal is to incinerate in accordance with local, state and national environmental laws, rules, standards and regulations. However, because acceptable methods of disposal may vary by location and regulatory requirements may change, the appropriate agencies should be contacted prior to disposal.
Disposal of packaging:	Completely empty package into application equipment then dispose of empty package in accordance with all Federal, State and local regulations.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION

U.S> Department of Transportation (DOT)

Bulk	
UN no:	3349
Shipping name:	Pyrethroid pesticide, Liquid toxic N.O.S (Lambdacyholathrinj)
Hazard Class:	6.1
Packing group:	III

Land Transport (ADR / RID)

UN no:	3349
Shipping name:	Pyrethroid pesticide, Liquid toxic N.O.S (Lambdacyholathrin)
Hazard Class:	6.1
Packing group:	III

Marine Transport (IMDG / IMO)

UN no:	3349
Shipping name:	Pyrethroid pesticide, Liquid toxic N.O.S (Lambdacyholathrin)
Hazard Class:	6.1
Packing group:	III
Marine pollutant:	Yes
EmS:	F-A, S-F

Air transport (IATA / ICAO)

UN no:	3349
Shipping name:	Pyrethroid pesticide, Liquid toxic N.O.S (Lambdacyholathrin)
Hazard Class:	6.1
Packing group:	III

Cargo Packing instructions:

15. REGULATORY INFORMATION



Harmful or Irritant

Hazard symbol
Risk Phrase
Safety Phrase



Dangerous for environment

Xn, N
R21 Harmful in contact in skin
S2 Keep out of reach of children
S60 This material and its container must be disposed of as hazardous waste
S61 Avoid release to the environment. refer to special instructions/safety data sheets

16. OTHER INFORMATION

Legal disclaimer:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.