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1. Identification

Product Name : LAMBDA T-2

Synonyms: None

Product Use : Lambda-cyhalothrin, Pyrethroid Insecticide

Manufacturer/Supplier: Helena Chemical Company

Address: 225 Schilling Blvd. Collierville, TN 38017

General Information: 901-761-0050

Transportation Emergency Number: CHEMTREC:800-424-9300

2. Hazard Identification





Signal Word : Danger

Skin Irritation: Not classified as hazardous under 29 CFR 1910.1200 (2012) **Eye Irritation**: Not classified as hazardous under 29 CFR 1910.1200 (2012)

Acute Toxicity Oral : 310 mg/kg (male rat)
Acute Toxicity Dermal : >2,000 mg/kg (rat)

Hazard Categories: Oral/Inhalation Toxicity-4/4; Skin Sensitization-1B; Aspiration-1;

Carcinogen-2

Hazard Statement: Harmful if swallowed

Harmful if inhaled

May cause an allergic skin reaction

May be fatal if swallowed and enters airways

Suspected of causing cancer

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Lambda-cyhalothrin	91465-08-6	22.80
Other Ingredients	Proprietary	<77.2
Titanium Dioxide	13463-67-7	Trade Secret
Petroleum Solvent	68477-31-6	Trade Secret

4. First Aid Measures



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Eye: Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes.

Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye.

Call a poison control center or doctor for further treatment advice.

Skin: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15

to 20 minutes. Call a poison control center or doctor for treatment advice.

Inhalation: Move person to fresh air. If person is not breathing, call 911 or an ambulance,

then give artificial respiration, preferably mouth-to-mouth, if possible. Call a

poison control center or doctor for further treatment advice.

Ingestion: Call a poison control center or doctor immediately for treatment advice. Rinse

mouth with water. Do not induce vomiting. Do not give anything by mouth if

unconscious.

Attention and Special Treatment Needed

Indication of Immediate Medical : Treat symptomatically if ingested. Skin contact paresthesia effects are transient (</=24 hours). Treat temporary allergic reaction with antihistamines or steroid creams. Contains petroleum distillate-vomiting may cause aspiration pneumonia.

5. Fire Fighting Measures

Extinguishing Media: Use dry chemical, foam or carbon dioxide extinguishing media. If water is used

to fight fire, dike and collect runoff.

Specific Hazards Arising from the : During a fire, irritating and possibly toxic gases may be generated by thermal

Chemical decomposition or combustion.

Special Fire Fight Proc : Wear full protective clothing and self-contained breathing apparatus. Evacuate

nonessential personnel from the area to prevent exposure to fire, smoke, fumes

or products of combustion.

6. Accidental Release Measures

Personal Precautions

: Keep unprotected and unnecessary personnel out of spill area.

Protective Equipment : Splashproof goggles or face shield, chemical-resistant gloves, coveralls, socks and chemical-resistant footwear. Use NIOSH-approved respirator with organic vapor cartridge with an R, P or HE filter. Use a self-contained breathing apparatus in cases of emergency spills, when exposure levels are unknown, or under any

circumstances when air-purifying respirators are inadequate. Eyewash and emergency shower should be available in work area.

Emergency Procedures : Control the spill at its source. Contain to prevent spreading or contaminating soil

or entering sewage and drainage systems or any body of water. Clean up spills

immediately.

Containment and Cleanup

Methods and Materials for : Cover entire spill with absorbent and place in compatible disposal container. Scrub area with hard water detergent (e.g. - Tide). Use additional absorbent to pick up wash water and place in container with other collected product. Seal and dispose of cleanup material in accordance with applicable regulations.

Handling and Storage

Precautions for Safe Handling: Prevent eating, drinking, tobacco use and cosmetic application in areas where

there is a potential for exposure to the material. Wash thoroughly with soap and

water after handling.



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Conditions for Safe Storage : Store locked up. Store the material in a well-ventilated, secure area out of reach

of children and domestic animals. Do not store food, beverages or tobacco

products in the storage area.

8. Exposure Controls / Personal Protection

TLV/PEL: Lambda-cyhalothrin: no TLV or PEL established. Titanium Dioxide: PEL=15

mg/m3, TLV=10 mg/m3.

Appropriate Engineering Controls : Use effective engineering controls to comply with occupational exposure limits (if

applicable).

Personal Protective Equipment: Splashproof goggles/face shield, chemical-resistant

gloves/coveralls/socks/chemical-resistant footwear. Use NIOSH-approved respirator with organic vapor cartridge and R, P or HE filter. Eyewash/emergency

shower should be available.

9. Physical and Chemical Properties

Odor/Appearance: White liquid with aromatic odor.

Flash Point, oF : >212 Degrees F.

Boiling Point, oF : Not available **Melting Point(Freezing point)**, oC : Not applicable

Vapor Pressure, mm Hg @ 20 oC : 1.5 x 10(-9) mmHg @68 Deg. F.

Vapor Density: Not available

Solubility in Water : 0.004 mg/L(lambda-cyhalothrin) **Molecular Formula** : Not applicable, formulated mixture.

Density, g/mL @ 25 oC : 1.096

Evaporation Rate(Butyl Acetate = : Not available

1)

Octanol/Water Partition : Not available

Coefficient

pH: 5.5 (1% in deionized H2O @ 77 Deg. F.)

Flammable Limits (approximate : Not available

volume % in air)

Auto-ignition Temperature : 1193 Degrees F. **Decomposition temperature** : Not available

10. Stability and Reactivity

Reactivity: Not reactive

Chemical Stability : Stable

Hazardous Decomposition : None known

Products

Hazardous Polymerization : Will not occur Conditions to Avoid : None known



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Incompatible Materials : None known

11. Toxicological Information

Acute Toxicity (Oral LD50) : 310 mg/kg (female rat). Harmful if swallowed.

Acute Toxicity (Dermal LD50) : >2,000 mg/kg (rabbit). Not classified as hazardous under 29 CFR 1910.1200

(2012).

Acute Toxicity Inhalation LC50: >3.12 mg/L/4 hours (female rat). Harmful if inhaled.

Likely Routes of Exposure : Dermal, inhalation

Skin Irritation: Not classified as hazardous under 29 CFR 1910.1200 (2012). **Eye Irritation**: Not classified as hazardous under 29 CFR 1910.1200 (2012).

Skin Sensitization: Skin sensitizer (derived from components). May cause an allergic skin reaction.

Carcinogenic : Titanium Dioxide - IARC Group 2B (possibly carcinogenic to humans).

Chronic Effects: Reversible paresthesia (abnormal skin sensation). Reversible clinical signs of

neurotoxicity in mammals.

Other Hazards : Aspiration Hazard: May be fatal if swallowed and enters airways. Not a

developmental or reproductive toxicant.

12. Ecological Information

Ecotoxicity: Lambda-cyhalothrin: Fish (rainbow trout) 96-hour LC50 0.19 ppb; Bird (mallard

duck) LD50 oral>3,950 mg/kg; Invertebrate (water flea) 48-hour EC50 0.04 ppb.

Persistence and Degradability: Lambda-cyhalothrin: Not persistent in soil or water.

Bioaccumulative Potential: No information found

Mobility in Soil : Lambda-cyhalothrin: Immobile in soil. Sinks in water (after 24 hours).

Other Adverse Effects : No information found

13. Disposal Considerations

Waste Disposal Method : This material must be disposed of according to Federal, State or Local

procedures under the Resource Conservation and Recovery Act.

14. Transport Information

UN Proper Shipping Name : Not regulated by DOT. If shipped by air (IATA) or water (IMDG), ship as noted.

Transport Hazard Class : None
UN Identification Number : None
Packaging Group : None

Environmental Hazards : Marine Pollutant under international regulations. Not listed as a Marine Pollutant

per 49 CFR 172.101, Appendix B.

Transport in Bulk : No information found



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Special Precautions for : If shipped by air (IATA) or water (IMDG), ship as: UN3082, Environmentally **Transportation** Hazardous Substance, Liquid, n.o.s., (Lambda-cyhalothrin), 9, PG III, Marine

Freight Classification :

Pesticides, NOI, Insecticides, Other than Poison (NMFC Item 155050, Sub 11,

Class 70)

15. Regulatory Information

National Fire Protection: **Association Rating**

> Health: 2 Fire: 1 Reactivity: 0

> > Rating Level: (4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

S.A.R.A Title III Hazard : Classification (Yes/No)

> Immediate(Acute) Health: Y Delayed (Chronic) Health: Y

> > Sudden Release of N

Pressure: Fire: N Reactive: N

FIFRA Information : This Chemical is a pesticide product registered by the Environmental Protection Agency and is

subject to certain labelling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the

pesticide label:

EPA Registration Number 100-1295-5905

FIFRA Signal Word: Warning

FIFRA Label Statement : Keep out of reach of children.

FIFRA Label Statement : May be fatal if swallowed. Causes moderate eye irritation.

FIFRA Label Statement : Harmful if absorbed through skin. Avoid contact with eyes, skin or clothing.

FIFRA Label Statement : Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

FIFRA Label Statement : Wash thoroughly with soap and water after handling and before eating,

FIFRA Label Statement : drinking, chewing gum or tobacco.

FIFRA Label Statement : Remove and wash contaminated clothing before reuse.

16. Other Information

Data of Preparation/Revision : 27-April-2016