



SAFETY DATA SHEET

DREXEL L-C INSECTICIDE

Section 1: Material Identification

Product Name: Drexel L-C Insecticide

EPA Reg No.: 19713-572

CAS NO: 91465-08-6

Formula: C₂₃H₁₉ClF₃NO₃

Company: Drexel Chemical Company
1700 Channel Avenue
Memphis, TN 38106

Synonyms: Lambda-Cyhalothrin; Lambda-Cy

Identifiers:
EINECS: 415-130-7
RTECS: GZ1227780
DOT information: See Section 14 for Transportation Information

Emergency Telephone Number:

CHEMTREC	Drexel Chemical Co.
Tel: 1-800-424-9300	901-774-4370

This product is an EPA FIFRA registered pesticide. Some of the classifications on this SDS are not the same as the FIFRA label. Certain sections of this SDS are superseded by federal law governed by EPA for a registered pesticide. Please see **Section 15: REGULATORY INFORMATION** for explanation.

Section 2: Hazard Identification (As defined by the OSHA Hazard Communication Standard, 29)

GHS classification:

Health hazards:	Acute toxicity - oral	Category 3
	Acute toxicity - inhalation	Category 3
	Skin corrosion/Irritation	Category 2
	Eye damage/irritation	Category 2B
	Aspiration hazard	Category 1
Environmental hazard:	Hazardous to the aquatic environment – acute hazard Category 1	

GHS label elements:
Signal word:

Danger



Hazard statements:

Toxic if swallowed.
Toxic if inhaled.
Causes skin irritation.
Causes eye irritation.
May be fatal if swallowed and enters airways.
Very toxic to aquatic life.

Precautionary statements:

Prevention:

Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Avoid breathing vapors or mist. Use only outdoors or in a well-ventilated area.
Wear protective gloves.
Avoid release to the environment.

Response:

If swallowed: Immediately call a POISON CENTER/doctor. Rinse mouth. Do not give any liquids to the exposed person. Do NOT induce vomiting.
If inhaled: Remove person to fresh air and keep comfortable for breathing. Call Poison Control Center of Doctor for treatment advice.
If on skin: Wash with plenty of water. **If skin irritation occurs:** Get medical advice/attention. Take off contaminated clothing and wash clothing before reuse.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. **If eye irritation persists:** Get medical advice/attention.
Collect spillage.

Storage:

Store in a well-ventilated place. Store locked up. Do not store in excessive heat. Do not store near children, food, foodstuffs, drugs or potable water supplies. Keep in original containers, and keep containers tightly closed.

Disposal:

Dispose of contents/container in accordance with your local or area regulatory authorities.

Section 3: Composition Information

<u>Components</u>	<u>CAS No.:</u>	<u>% By Wt.:</u>	<u>OSHA PEL:</u>	<u>ACGIH TLV:</u>
Active ingredient: Lambda-Cyhalothrin	91465-08-6	12.6%	N/Av	N/Av
Inert ingredients:	N/A	87.4%	N/A	N/A

Section 4: First-Aid Measures

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

If swallowed: Call a poison control center or doctor immediately for treatment advice. Do not give any liquid to the person. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious or convulsing person.

If in eyes: Hold eye 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 treatment advice.

If on skin or clothing: 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.

If inhaled: 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 treatment advice.

Note to physician: Contains petroleum distillate – vomiting may cause aspiration pneumonia.

Section 5: Fire Fighting Measures

Fire Hazards: Will ignite when exposed to heat, flame and other sources of ignition. Vapors can travel to a source of ignition and flash back causing and explosive and fire. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Thermal decomposition during a fire can produce fumes and irritating gases.

Flammability classification (OSHA 29 CFR 1910.1200): Non-combustible

Flash point: >200°F

Lower flammable limit (% by volume): N/Av

Upper flammable limit (% by volume): N/Av

Fire Fighting Procedures: Keep people away. Isolate fire and deny unnecessary entry. Evacuate the area and fight the fire from upwind at a safe distance to avoid hazardous vapors or decomposition products. Dike and collect fire-extinguishing media to prevent environmental damage and excessive waste runoff.

Firefighting media: Use foam, dry chemical, or carbon dioxide when fighting fires involving this product. Contain all runoff.

Special Protective Equipment for Firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes firefighting helmet, coat, trousers, boots, and gloves). Use full face shield and operate in positive pressure mode. Avoid contact with this material during firefighting operations. If contact is likely, change to full chemical resistant firefighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location. For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections.

Hazardous Combustion Products: May produce gases such as hydrogen chloride, hydrogen fluoride and oxides of carbon and nitrogen.

NFPA: Health: Flammability: Reactivity:

2 1 0

(Rating: 4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Insignificant)

Section 6: Accidental Release Measures

Steps to be taken if Material is Released or Spilled:

- Contain spilled material if possible. Small spills: Apply suitable absorbent and sweep up. Collect in suitable and properly labeled containers. Large spills: Contact Drexel Chemical Co. for clean-up assistance. See Section 13, Disposal Considerations, for additional information.

Personal Precautions:

- Isolate area. Keep unnecessary and unprotected personnel from entering the area. Refer to Section 7, Handling, for additional precautionary measures. Spilled material may cause a slipping hazard. Ventilate area of leak or spill. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Environmental Precautions: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

Section 7: Handling and Storage

KEEP OUT OF REACH OF CHILDREN

Handling: **General Handling:** Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Do not swallow. Avoid breathing vapor. Use with adequate ventilation. Wear chemical protective equipment when handling. Keep away from heat, sparks and flame. See Section 8, Exposure Controls and Personal Protection.

Storage: Store in a cool, dry, well ventilated and secure area designated specifically for pesticides and away from heat sources. Keep in original containers and keep containers closed when not in use. Do not store in excessive heat. Do not store near children, food, foodstuffs, drugs or potable water supplies.

Section 8: Exposure Controls / Personal Protection

Exposure Limits: (8-Hour TWA) Not established

Personal Protection:

Eye/Face Protection: Wear safety glasses with side shields or chemical splash goggles to prevent vapors or mists from entering the eyes. If using a full face shield, always use safety glasses or goggles along with the face shield to ensure adequate protection of the eyes.

Skin Protection: Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task. Safety shower should be located in immediate work area. Remove contaminated clothing immediately, wash skin area with soap and water, and launder clothing before reuse or dispose of properly. Items which cannot be decontaminated, such as shoes, belts and watchbands, should be removed and disposed of properly.

Hand protection: Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Neoprene, Nitrile/butadiene rubber (“nitrile” or “NBR”) or Polyvinyl chloride (“PVC” or “vinyl”).

Respiratory Protection: Respiratory protection should be worn when handling in enclosed areas, when large quantities of mists are generated or prolonged exposure is possible, use a respirator with either an organic vapor-removing cartridge with a pre-filter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C) or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G).

Ingestion: Avoid ingestion of even very small amounts; do not consume or store food or tobacco in the work area; wash hands and face before smoking or eating.

Engineering Controls:

Ventilation: When handling this product proper ventilation is required. Ventilate all transport vehicles prior to unloading. Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.

Section 9: Physical and Chemical Properties

Physical State:	Liquid
Color:	Yellow to golden
Odor:	N/Av
Flash Point:	>200°F
Vapor Pressure:	400 nPA (@ 20°C)
Boiling Point:	N/Av
Vapor Density (air = 1):	N/Av
Bulk Density (H₂O = 1):	1.068 g/cc (8.91 lbs/gal)
Freezing Point:	<20°F
Solubility in water:	Dispersible
pH:	5-7 (5% solution)
Viscosity:	N/Av

Section 10: Stability and Reactivity

Stability/Instability: Thermally stable at typical use temperatures and in closed containers.

Conditions to Avoid: Avoid heat of open flame. Avoid high temperatures above 130°F (54.4°C).

Incompatible Materials: Avoid contact with: Strong acids. Strong bases. Strong oxidizers.

Hazardous Polymerization: Will not occur

Thermal Decomposition: Decomposition products can include hydrogen chloride, hydrogen fluoride, oxides of carbon and nitrogen and other toxic and irritant vapors.

Section 11: Toxicological Information

Data from laboratory studies conducted on a similar, but not identical, formulation.

Acute Toxicity:

Ingestion:

- LD50, (rat): 92.90 mg/kg

Dermal:

- LD50, (rat): >2,000 mg/kg

Inhalation:

- LC50, (4h), (rat): 0.55 mg/l

Eye Irritation (rabbit):

- Mildly irritating

Skin Irritation (rabbit):

- Moderately irritating

Sensitization Skin:

- Non-sensitizer (guinea pig)

Chronic Toxicity:

- Repeated overexposure may affect the liver and central nervous system.

Carcinogenicity:

- Not expected to cause carcinogenicity in humans.

Teratogenicity, mutagenicity, and other reproductive effects: None known based on animal studies.

Section 12: Ecological Information

This information is for Lambda-Cyhalothrin:

ENVIRONMENTAL FATE:

- Extremely toxic to fish and aquatic invertebrates. Highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds.

Persistence and Degradability:

- Moderately persistent in soil - reported half-lives range from 4-12 weeks. Tightly bound to soil, extremely low water solubility. Not persistent in water.

Aquatic Toxicity:

- Rainbow Trout, 96 hour EC50: 0.00021 ppm
- Bluegill, 96 hour, LC50: 0.00021 ppm
- Daphnia magna, 48 hour, EC50: 0.00036 ppm

Arthropod Toxicity:

- Bees, oral, LD50: 0.038 µg/bee

Bird Toxicity:

- Mallard Duck, LC50: >3,950 mg/kg
- Bobwhite Quail, LC50: >5,300 ppm

Section 13: Disposal Considerations

If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. If the material as supplied becomes a waste, follow all applicable regional, national and local laws.

Section 14: Transport Information

DOT: UN 3352, Pyrethroid pesticides, liquid, toxic (Contains Lambda-Cyhalothrin), 6.1, PG-III

ICAO/IATA: UN 3352, Pyrethroid pesticides, liquid, toxic (Contains Lambda-Cyhalothrin), 6.1, PG-III

IMDG: UN 3352, Pyrethroid pesticides, liquid, toxic (Contains Lambda-Cyhalothrin), 6.1, PG-III, Marine Pollutant

Freight Description: Pyrethroid pesticide, liquid, toxic, n.o.s.

ERG Guide No.: 151

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

Section 15: Regulatory Information

OSHA Hazard Communication Standard:

- This product is a “Hazardous Chemical” as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

EPA:

- **EPA FIFRA INFORMATION:** This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemical. The hazard information required on the pesticide label is listed out below. The pesticide label also includes other important information, including directions for use.
- **EPA Label Human Hazard Statements:** WARNING: May be fatal if swallowed. Harmful if absorbed through the skin or inhaled. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Avoid breathing spray mist. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash hands thoroughly with soap and water after handling and before eating, drinking or using tobacco. Wear protective

clothing, gloves, eyewear and respirator as indicated under “PERSONAL PROTECTIVE EQUIPMENT (PPE).” Remove contaminated clothing before reuse. Skin exposure may also result in a sensation described as a tingling, itching, burning or prickly feeling. Onset may occur immediately to 4 hours after exposure and may last 2 to 30 hours, without damage. Wash exposed areas once with soap and water. Relief from the skin sensation may be obtained by applying an oil-based cream.

- **EPA/CERCLA Reportable Quantity:** None Known

SARA/TITLE III:

- **Section 302. Extremely Hazardous Substance Notification:** This material is not known to contain any Extremely Hazardous Substances.
- **Section 311/312. Hazard Categories:** Fire Hazard; Immediate health hazard; Chronic health hazard
- **Section 313. Toxic Chemical(s):** This material is not known to contain any Toxic Chemical constituents.
- **RCRA Waste Code:** Not applicable

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986):

- This product is not listed.

Toxic Substances Control Act (TSCA):

- All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30

Section 16: Other Information

Drexel Chemical Company recommends that each customer or recipient of this SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown below. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific SDSs, we are not and cannot be responsible for SDSs obtained from any source other than ourselves. If you have obtained an SDS from another source or if you are not sure that the SDS you have is current, please contact us for the most current version.

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