



# Safety Data Sheet

Report Date 16-Feb-21

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## 1. Identification

**Product Name** : OMNI BRAND LAMBDA 1 EC  
**Synonyms** : None  
**Product Use** : Lambda-cyhalothrin Insecticide  
**Manufacturer/Supplier** : Helena Agri-Enterprises, LLC  
**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** : Causes skin irritation  
**Eye Irritation** : Causes serious eye damage  
**Acute Toxicity Oral** : LD50 = 92.90 mg/kg (rat) for similar product.  
**Acute Toxicity Dermal** : LD50 > 2,000 mg/kg (rat) for similar product  
**Hazard Categories** : Oral/Inhalation Tox-3/3; Eye/Skin-2B/2;  
STOT/Single/Repeated-3/2; Cancer-2; Flam-4; Aquatic A/C-1/1



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**Hazard Statement** : Toxic if swallowed  
Toxic if inhaled  
Causes eye irritation  
Causes skin irritation  
Suspected of causing cancer  
May cause drowsiness or dizziness  
May cause damage to organs (liver, central nervous system) through prolonged or repeated exposure  
Combustible liquid  
Very toxic to aquatic life  
Very toxic to aquatic life with long lasting effects

### 3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Lambda-cyhalothrin	91465-08-6	13.10
Other ingredients, including:		86.90
Solvent Naphtha (Petroleum), Heavy Aromatic, which may contain: <8.0% Naphthalene <4.0% Pseudocumene (1,2,4-Trimethylbenzene)	64742-94-5	80.51
Benzenesulphonic acid, 4-C10-C14-alkyl derivatives, calcium salts	90194-26-6	<3.0
Isobutonal	78-83-1	<1.0
Nonylphenol, ethoxylated	127087-87-0	3.00

### 4. First Aid Measures

**Eye** : Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for 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 not breathing, call 911 or an ambulance, then give artificial respiration, preferably by 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. Do not give any liquid to the person. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth if unconscious.

**Indication of Immediate Medical Attention and Special Treatment Needed** : Get immediate medical attention for ingestion. If respiratory distress, itchy skin, or skin/eye irritation occurs get immediate medical attention.

### 5. Fire Fighting Measures

**Extinguishing Media** : Use foam or water spray for large fires. Use dry chemical or carbon dioxide for small fires. Use extinguishing media suitable for surrounding materials.



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- Specific Hazards Arising from the Chemical** : Combustible liquid. Can release vapors that form explosive mixtures at temperatures at or above the flash point. Containers will burst from internal pressure under extreme fire conditions. If water is used to fight fire, dike to prevent runoff.
- Special Fire Fight Proc** : Wear self-contained breathing apparatus and full protective clothing. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later.

### 6. Accidental Release Measures

- Personal Precautions** : Keep unprotected and unnecessary personnel out of spill area. Avoid creation of dusty conditions.
- Protective Equipment** : Splashproof goggles or face shield, long-sleeved shirt and long pants, socks, chemical resistant footwear, chemical resistant gloves, impervious apron. Respiratory protection not normally needed. Eyewash and emergency shower should be available in work area.
- Emergency Procedures** : Prevent material from entering public sewer systems or any waterways. Do not flush to drain. Large spills to soil or similar surfaces may require removal of topsoil.
- Methods and Materials for Containment and Cleanup** : Dike spill using absorbent or impervious materials such as earth, sand or clay. Pump any free liquid into an appropriate closed container. Cover residue with absorbent or impervious material. Collect and contain contaminated absorbent and diking materials for disposal. Decontaminate tools and equipment following cleanup.

### 7. Handling and Storage

- Precautions for Safe Handling** : Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. If pesticide gets on skin, wash immediately with soap and water. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.
- Conditions for Safe Storage** : Store in original container and out of the reach of children, preferably in a locked storage area. Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food and feed.

### 8. Exposure Controls / Personal Protection

- TLV/PEL** : No TLV or PEL established for active ingredient.
- Appropriate Engineering Controls** : Use local exhaust ventilation at point of generation.
- Personal Protective Equipment** : Splashproof goggles/face shield, long-sleeved shirt and long pants, socks, chemical resistant footwear, chemical resistant gloves, impervious apron. Respiratory protection not normally needed. Eyewash/emergency shower should be available.



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### 9. Physical and Chemical Properties

<b>Odor/Appearance</b>	: Amber liquid with aromatic odor.
<b>Flash Point, °F</b>	: 150 Degrees F.
<b>Boiling Point, °F</b>	: No information on mixture
<b>Melting Point(Freezing point), °C</b>	: No information on mixture
<b>Vapor Pressure, mm Hg @ 20 °C</b>	: No information on mixture
<b>Vapor Density</b>	: No information on mixture
<b>Solubility in Water</b>	: Emulsifiable
<b>Molecular Formula</b>	: Not applicable, formulated mixture.
<b>Density, g/mL @ 25 °C</b>	: 0.84-0.86
<b>Evaporation Rate(Butyl Acetate = 1)</b>	: No information on mixture
<b>Octanol/Water Partition Coefficient</b>	: No information on mixture
<b>pH</b>	: 6.0 to 7.5 (1% dilution in water)
<b>Flammable Limits (approximate volume % in air)</b>	: No information on mixture
<b>Auto-ignition Temperature</b>	: No information on mixture
<b>Decomposition temperature</b>	: No information on mixture

### 10. Stability and Reactivity

<b>Reactivity</b>	: Not reactive
<b>Chemical Stability</b>	: Stable
<b>Hazardous Decomposition Products</b>	: Under fire conditions, may produce gases such as hydrogen chloride, hydrogen fluoride and oxides of carbon and nitrogen.
<b>Hazardous Polymerization</b>	: Will not occur
<b>Conditions to Avoid</b>	: Avoid temperatures near or above flashpoint (150 Deg. F.), open flame, spark and static electricity.
<b>Incompatible Materials</b>	: Strong oxidizing agents, bases and acids.

### 11. Toxicological Information

<b>Acute Toxicity (Oral LD50)</b>	: 92.90 mg/kg (rat), for a similar formulation. Toxic if swallowed.
<b>Acute Toxicity (Dermal LD50)</b>	: >2,000 mg/kg (rat) for a similar formulation. Not classified as hazardous under 29 CFR 1910.1200.
<b>Acute Toxicity Inhalation LC50</b>	: >0.55 mg/L/4 hour (rat) for a similar formulation. Toxic if inhaled.
<b>Likely Routes of Exposure</b>	: Ingestion, inhalation, eye contact, skin contact.
<b>Skin Irritation</b>	: Causes skin irritation.
<b>Eye Irritation</b>	: Causes eye irritation.
<b>Skin Sensitization</b>	: Not a skin sensitizer.
<b>Carcinogenic</b>	: Suspected of causing cancer (naphthalene).



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- Chronic Effects** : Specific Target Organ Toxicity, Repeated Exposure: May cause damage to organs (liver, central nervous system) through prolonged or repeated exposure. Paresthesia may result after contact with exposed skin. Symptoms normally disappear within 24 hours.
- Other Hazards** : STOT, Single: May cause drowsiness or dizziness. CA PROPOSITION 65 **WARNINGS!** This product can expose you to chemicals including naphthalene, which is known to the State of California to cause cancer. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### 12. Ecological Information

- Ecotoxicity** : Very toxic to aquatic life (acute). Very toxic to aquatic life with long lasting effects (chronic).
- Persistence and Degradability** : Lambda-cyhalothrin is moderately persistent in soil. Reported half-lives range from 4 to 12 weeks.
- Bioaccumulative Potential** : No information on mixture.
- Mobility in Soil** : Lambda-cyhalothrin has extremely low water solubility and is tightly bound to soil.
- Other Adverse Effects** : No information on mixture.

### 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** : Pyrethroid Pesticide, Liquid, Toxic, (Lambda-cyhalothrin)
- Transport Hazard Class** : Toxic (6.1)
- UN Identification Number** : UN3352
- Packaging Group** : PG II
- Environmental Hazards** : RQ for Naphthalene=100 lbs. Marine Pollutant; Emergency Response Guide (ERG) 151.
- Transport in Bulk** : If shipped in single package  $\geq 119$  gallons and  $< 265$  gallons, ship as: UN3352, Pyrethroid Pesticide, Liquid, Toxic, (Lambda-cyhalothrin), 6.1, PG II, Marine Pollutant. If shipped in  $\geq 265$  gallons, add RQ (naphthalene).
- Special Precautions for Transportation** : If shipped by air (IATA) or water (IMDG), ship add Marine Pollutant to description, regardless of package size.
- Freight Classification** : Pesticides, NOI, Insecticides, Poison (NMFC Item 155050, Sub 11, Class 70)

### 15. Regulatory Information

National Fire Protection Association Rating :

Health: 2 Fire: 2 Reactivity: 0



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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: Y  
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 :** 5905-610

**FIFRA Signal Word :** Danger

**FIFRA Label Statement :** Keep out of reach of children.

**FIFRA Label Statement :** Restricted Use Pesticide Due to Toxicity to Fish and Aquatic Organisms.

**FIFRA Label Statement :** Corrosive. Causes skin burns.

**FIFRA Label Statement :** May be fatal if swallowed or inhaled. Causes substantial but temporary eye injury. Do not get in

**FIFRA Label Statement :** eyes, on skin or clothing. Do not breathe vapor or spray mist. Harmful if absorbed

**FIFRA Label Statement :** through skin. Wear protective clothing, gloves, eyewear (goggles, face shield or safety glasses),

**FIFRA Label Statement :** and respirator as indicated under Personal Protective Equipment.

## 16. Other Information

**Data of Preparation/Revision :** 16-February-2021