

**For Chemical Emergencies During Transportation:**  
USA and Canada: Call CHEMTREC 24 Hours at 1-800-424-9300  
International: Call CHEMTREC 24 Hours at 1-703-527-3887  
Account Number: CCN709805

## 1. PRODUCT AND COMPANY INFORMATION

Product Name: CIS-3 HEXENOL  
Product Code: 16347  
CAS #: 928-96-1

Company Name: The Lermond Company, LLC  
13 Raritan Road  
Oakland, NJ 07436  
Phone: 201-896-3300

## 2. HAZARD(S) IDENTIFICATION

<b>Physical hazards</b>	Flammable Liquid	Category 3
<b>Health Hazards</b>	Eye Irritation	Category 2A



### Label elements

<b>Signal word</b>	Warning	
<b>Hazard statement</b>	H226 H319	Flammable liquid and vapor. Causes serious eye irritation.
<b>Precautionary statement</b>		
<b>Prevention</b>	P210 P240 P264	Keep away from heat/sparks/open flames/hot surfaces. No smoking. Ground/bound container and receiving equipment. Wash thoroughly after handling.
<b>Response</b>	P303 & P361 & P353	IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower.
	P305 & P351 & P338 P337 & P313	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.
<b>Storage</b>	P401	Store tightly sealed away from incompatible materials.
<b>Disposal</b>	P501	Dispose of contents/container in accordance with local/state/national/international regulation.

**Hazard(s) not otherwise classified (HNOC)** No additional data available.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Name:** CIS-3 Hexenol 100% CAS Number: 928-96-1

### 4. FIRST-AID MEASURES

**Inhalation:** In the event of exposure to vapors, immediately remove from the area to a fresh air environment.

**Skin Contact:** Remove contaminated clothes. Wash skin with large volumes of water. If irritation persists, or any sign of tissue damage is apparent, obtain medical advice immediately.

**Eye Contact:** In the event of contact with the eyes, irrigate with water for at least 15 minutes; obtain medical advice if irritation persists.

**Ingestion:** In the event of accidental ingestion, rinse mouth with water. Give up to one tumbler (half-pint) of milk or water. DO NOT induce vomiting. Obtain medical advice immediately.

**Most important symptoms/effects, acute and delayed:** No additional data available.

**Indication of immediate Medical attention and Special treatment needed:** No additional data available.

**General information:** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

### 5. FIRE-FIGHTING MEASURES

**Flash Point:** 138° F (59°C)

**Suitable Extinguishing Media:** Foam, carbon dioxide, or dry chemical.

**Unsuitable Extinguishing Media:** Do not use a solid water stream as it may scatter and spread fire.

**Specific hazards arising from the Chemical:** None known.

**Special protective Equipment and precautions for firefighters:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Firefighting equipment/Instructions:** No additional information available.

**Specific methods:** No additional information available.

**General fire hazards:** Development of hazardous combustion gases or vapors possible in the event of fire. Toxic gases (carbon dioxide, carbon monoxide, and acrid fumes) are released on burning. Closed containers will build pressure at elevated temperatures – keep containers cooled with water.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** Impervious gloves should be worn when handling spillages. No smoking. Avoid naked flames or other potential sources of ignitions. Avoid skin contamination and inhalation of vapor. Individual washing routines should be followed after any potential contact. Ensure adequate ventilation in working areas following accidental releases. For personal protection, see section 8 of the SDS.

**Methods and materials for containment and cleaning up:** Collect and dispose of spillage as indicated in section 13 of the SDS.  
Large Spills: Absorb with inert material such as dry clay, sand, or diatomaceous earth, commercial sorbents or recover using pumps. The product is immiscible with water and will spread on the water surface. Dike the spilled material where this is possible. Cover with plastic sheet to prevent spreading.

Small Spills: Wipe up with absorbent material (e.g., cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

**Environmental precautions:** Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

## 7. HANDLING AND STORAGE

**Safe Handling:** Do not handle or store near an open flame, heat, or other sources of ignition. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Avoid breathing vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wash thoroughly after handling.

**Safe Storage:** Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Biological limit values:** No biological exposure limits noted for the ingredient(s).

**Appropriate engineering controls:** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide easy access to water supply and eye wash facilities.

**Individual protection measures, such as personal protective equipment:**

**Eye/face protection:** Wear safety glasses with side shields (or goggles) and a face shield.

**Skin protection:**

**Hand protection:** Wear appropriate chemical resistant gloves.

**Other:** Wear appropriate chemical resistant clothing. Use of an impervious apron recommended.

**Respiratory protection:** In case of insufficient ventilation, wear suitable respiratory equipment.

**Thermal hazards:** Wear appropriate thermal protective clothing, when necessary.

**General hygiene Considerations:** Contaminated work clothing should not be allowed out of the workplace.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Colorless liquid  
**Vapor density @ 20°C:** N/A  
**Relative Density @ 25°C:** N/A  
**Melting point:** <-20°C (OECD 102)  
**Flash point:** 138°F (59°C)  
**Boiling point:** 154-157°C

## 10. STABILITY AND REACTIVITY

**Reactivity:** No reaction known with water.

**Stability:** Stable under normal conditions.

**Possibility of hazardous Reactions:** Not know.

**Conditions to avoid:** Avoid temperatures above or at least 5°C below flash pint for any flammable liquids.  
Do no heat closed containers.  
Avoid contact with oxidizing agents.

**Incompatible materials:** Avoid strong oxidizing agents.

**Hazardous decomposition products:** Contact with water or storage under recommended conditions for one year should not produce dangerous decomposition products.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Inhalation:** Knowledge about health hazard is incomplete.

**Skin contact:** Causes mild skin irritation.

**Eye contact:** Causes serious eye irritation. Causes mild eye irritation.

**Ingestion:** Knowledge about health hazard incomplete.

**Symptoms related to the physical, chemical, and toxicological Characteristics:** Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling and blurred vision.

### Information on toxicological effects

**Acute toxicity** Not known.

**Skin Corrosion/irritation:** Due to partial or complete lack of data the classification is not possible.  
Irritation (dermal)(Human Max.): nonirritant @2%

**Serious eye damage/eye Irritation:** Not known.

### Respiratory or skin sensitization:

**Respiratory sensitization:** Due to partial or complete lack of data the classification is not possible.

**Skin sensitization:** Due to partial or complete lack of data the classification is not possible.  
Sensitization (Human max.): non sensitizing @2%

**Germ cell mutagenicity:** Due to partial or complete lack of data the classification is not possible.

**Carcinogenicity:** Due to partial or complete lack of data the classification is not possible.

**OSHA specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed

**Reproductive toxicity:** Due to partial or complete lack of data the classification is not possible.

**Specific target organ toxicity- single exposure:** Due to partial or complete lack of data the classification is not possible.

**Specific target organ toxicity- repeated exposure:** Due to partial or complete lack of data the classification is not possible.

**Aspiration hazard:** Due to partial or complete lack of data the classification is not possible.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity:** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components	Species	Test Results
Aquatic FISH LC50	Fathead minnow ( <i>Pimephales promelas</i> )	>352 - <415 mg/l, 06 hrs.

**Persistence and degradability:** No data is available on the degradability of this substance.

**Bio accumulative Potential:** No data is available.

**Mobility in soil:** No data is available.

**Other adverse effects:** No other adverse environmental effects (e.g., ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

**13. DISPOSAL CONSIDERATIONS**

**Disposal instructions:** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways, or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations:** Dispose in accordance with all applicable regulations.

**Hazardous waste code:** The waste code should be assigned in discussion between the user, the producer, and the waste disposal company.

**Waste from residues/unused products** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging:** Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## 14. TRANSPORT INFORMATION

**Ground Shipping (DOT):** Non-Bulk  
Not regulated.

**Ground Shipping (DOT):** BULK  
Proper Shipping Name: ALCOHOLS, N.O.S. (HEXENOL CIS- 3)  
Hazard Class: 3  
UN Number: 1987  
Packing Group: III

**Air shipping (IATA):**  
Proper Shipping Name: ALCOHOLS, N.O.S. (HEXENOL CIS- 3)  
Hazard Class: 3  
UN Number: 1987  
Packing Group: III  
Environmental hazard NO  
Labels 3

**Ocean Shipping (IMDG):**  
Proper Shipping Name: ALCOHOLS, N.O.S. (HEXENOL CIS- 3)  
Hazard Class: 3  
UN Number: 1987  
Packing Group: III  
Transport in bulk  
According to ANNEX II  
Of MARPOL 73-78  
and the IBC Code Not applicable.

## 15. REGULATORY INFORMATION

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous chemical**

Yes

Flammable (gases, aerosols, liquids, or solids)

Serious eye damage or eye irritation.

**SARA 313 (TRI reporting)**

Not regulated.

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

## **16. OTHER INFORMATION**

**Disclaimer:** This information is provided for documentation purposes only.

The complete range of conditions or methods of use are beyond our control therefore we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate however, all statements or suggestions are made without warranty, expressed, or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

This safety sheet cannot cover all possible situations that the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or custom