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**MATERIAL SAFETY DATA SHEET****CIS-3-HEXENOL****1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product Name : CIS-3-HEXEN-1-OL, 98%  
Supplier's Name & Address : CHEMTEX USA, INC.  
150 River Road, Suite G3B, Montville, NJ 07045-9441, USA  
Tel. # (973) 335-2500; Fax # (973) 335-2552.  
Emergency Phone : North America (US & Canada)  
1-800-255-3924 (CHEMTEL INC.). (24 HOURS)

**2. COMPOSITION, INFORMATION ON INGREDIENTS**

Chemical Name : CIS-3-HEXEN-1-OL  
CAS # : 928-96-1  
EINECS # : 213-192-8  
% : 98%  
Hazard Symbols : None Listed.  
Risk Phrases : 10

**3. HAZARDS IDENTIFICATION**

Eye : May cause eye irritation.  
Skin : May cause skin irritation.  
Ingestion : May cause irritation of the digestive tract.  
Inhalation : May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.  
Chronic : Not available.

**4. FIRST AID MEASURES**

Eyes : Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.  
Skin : Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.  
Ingestion : Get medical aid. Wash mouth out with water.  
Inhalation : Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.  
Notes to Physician : Treat symptomatically and supportively.

## 5. FIRE FIGHTING MEASURES

General Information	: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors can travel to a source of ignition and flash back. Will burn if involved in a fire. Flammable liquid and vapor.
Extinguishing Media	: Use carbon dioxide or dry chemical.
Flash Point	: 44°C (11.20 °F)
NFPA Rating	: 1 - health, 2 - flammability, 0 - instability

## 6. ACCIDENTAL RELEASE MEASURES

General Information	: Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks	: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Remove all sources of ignition. Use a spark-proof tool.

## 7. HANDLING AND STORAGE

Handling	: Use spark-proof tools and explosion proof equipment. Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.
Storage	: Keep away from sources of ignition. Store in a cool, dry place. Store in a tightly closed container. Flammables-area. Refrigerator/flammables.

## 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls: Use adequate ventilation to keep airborne concentrations low.

### Exposure Limits

Chemical Name	: CIS-3-HEXEN-1-OL
ACGIH	: none listed
NIOSH	: none listed
OSHA - Final PELs	: none listed

OSHA Vacated PELs:

CIS-3-HEXEN-1-OL	: No OSHA Vacated PELs are listed for this chemical.
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### Personal Protective Equipment

Eyes	: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin	: Wear appropriate protective gloves to prevent skin exposure.
Clothing	: Wear appropriate protective clothing to prevent skin exposure.
Respirators	: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a IOSH or European Standard EN 149 approved respirator when necessary.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	: Liquid
Color	: Clear, colorless
Odor	: Not available.
pH	: Not available.
Vapor Pressure	: Not available.
Vapor Density	: Not available.
Evaporation Rate	: Not available.
Viscosity	: Not available.
Boiling Point	: 156 - 157 °C @ 760.00mm Hg
Freezing/Melting Point	: Not available.
Solubility in water	: Insoluble
Specific Gravity/Density	: 8460g/cm <sup>3</sup>
Molecular Formula	: C <sub>6</sub> H <sub>12</sub> O
Molecular Weight	: 100.16

## 10. STABILITY AND REACTIVITY

Chemical Stability	: Stable under normal temperatures and pressures.
Conditions to Avoid	: Incompatible materials.
Incompatibilities with Other Materials	: Strong oxidizing agents, strong acids.
Hazardous Decomposition Products	: Carbon monoxide, carbon dioxide.
Hazardous Polymerization	: Has not been reported.

## 11. TOXICOLOGICAL INFORMATION

RTECS# : CAS# 928-96-1: MP8400000

LD50/LC50: CAS# 928-96-1: Oral, mouse: LD50 = 7 gm/kg; Oral, rat: LD50 = 4700 mg/kg; Skin, rabbit: LD50 = >5 gm/kg.

Carcinogenicity:

CIS-3-HEXEN-1-OL -

Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Epidemiology	: No data available.
Teratogenicity	: No data available.
Reproductive Effects	: No data available.
Neurotoxicity	: No data available.
Mutagenicity	: No data available.
Other Studies	: No data available.

## 12. ECOLOGICAL INFORMATION

Ecotoxicity:

See Dictionary of Substances and Their Effects.

### 13. DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

### 14. TRANSPORT INFORMATION

US DOT

Shipping Name: ALCOHOLS, N.O.S.\*

Hazard Class: 3

UN Number: 1987

Packing Group: III

Canadian TDG

No information available.

### 15. REGULATORY INFORMATION

US FEDERAL

TSCA

CAS# 928-96-1 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

SARA

CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

Section 313

No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CIS-3-HEXEN-1-OL can be found on the following state right to know lists: Pennsylvania.

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available.

Risk Phrases:

R10 Flammable.

Safety Phrases:

S16 Keep away from sources of ignition - No smoking.

WGK (Water Danger/Protection)

CAS# 928-96-1: No information available.

United Kingdom Occupational Exposure Limits

United Kingdom Maximum Exposure Limits

Canada

CAS# 928-96-1 is listed on Canada's DSL List.

This product does not have a WHMIS classification.

CAS# 928-96-1 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

## 16. ADDITIONAL INFORMATION

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.