

# SAFETY DATA SHEET

## SECTION 1 - COMPANY AND PRODUCT IDENTIFICATION

### PRODUCT

**Product Name:** D-LIMONENE  
**Control Number:** 00033  
**Product Description:** Terpene Hydrocarbon

### COMPANY IDENTIFICATION

**Supplier:** Chemical Distribution Solutions  
1125 Oak St. Ste. 303  
Conway, AR 72032

**24 Hour Emergency Telephone:** (800) 424-9300 CHEMTREC  
**General Information:** (501) 978-1111

## SECTION 2- HAZARDS IDENTIFICATION

### GHS Classification:

#### [ Health ]

Aspiration hazard Category 1  
Skin irritation Category 2

#### [ Environmental ]

Acute Aquatic Toxicity Category 1  
Chronic aquatic toxicity Category 1

#### [ Physical ]

Flammable Liquid Category 3

### GHS Label elements, including precautionary statements

#### Pictograms



**Signal Word:** Danger

#### Hazard statement(s)

H226 Flammable liquid and vapor.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H410 Very toxic to aquatic life with long lasting effects.

#### Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.  
P264 Wash skin thoroughly after handling.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P331 Do NOT induce vomiting.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

## SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS Number	%WT
D-Limonene	5989-27-5	90-100

## SECTION 4 - FIRST AID MEASURES

### FIRST AID PROCEDURES:

**Eyes:** Flush with large amounts of cool running water as a precaution. If irritation persists obtain medical attention.

**Skin:** Wash affected areas with soap and water. If irritation develops seek medical attention.

**Inhalation:** For excessive inhalation remove to fresh air. If breathing is difficult seek medical attention.

**Ingestion:** Seek immediate medical attention. DO NOT induce vomiting. Rinse mouth with water.

## SECTION 5 - FIRE FIGHTING MEASURES

**Suitable Extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Hazardous combustion products:** Oxides of carbon and various hydrocarbons

**Fire Fighting Procedures:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

**Unusual Fire and Explosion Hazards:** Containers can build up pressure if exposed to heat and/or fire. Use water spray to keep fire-exposed containers cool. Containers may explode in the heat of a fire releasing vapors that may form an explosive mixture with air.

## SECTION 6 - ACCIDENTAL RELEASE and DISPOSAL MEASURES

Suitable protective clothing should be worn. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. Eliminate all ignition sources. Shut off or plug source of spill. Absorb on inert media and collect into suitable container.

**Large Spills:** Dike spill area to contain liquid. Salvage as much re-useable liquid as possible into a suitable container. Then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations. Avoid contaminating ground and surface water.

## SECTION 7 - STORAGE AND HANDLING

**Handling:** Avoid contact with eyes, or skin. Do not breathe vapors or mists. Keep container closed and tightly sealed when not in use. Take measures to prevent the buildup of electrostatic charge.

**Storage:** This material is a static accumulator. Use non-sparking tools. Store in a cool, dry, ventilated area, away from incompatible substances. Store only in approved properly labeled containers. Containers should be grounded and bonded.

## SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Engineering Controls:** Provide explosion-proof ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits indicated below.

**Exposure Limits:** D-Limonene 20 ppm ACGIH; 50 ppm OSHA

### Personal Protective Equipment (PPE):

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133.

**Skin:** If prolonged or repeated skin contact is likely, wear appropriate protective gloves.

**Clothing:** Selection of protective clothing depends on work conditions, potential exposure conditions and may include gloves, boots, suits and other protective items.

**Respirators:** Where adequate ventilation is not available an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements of OSHA Respiratory Protection Standard, 29 CFR 1920.134. In confined areas, use a self-contained breathing apparatus.

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## SECTION 9- PHYSICAL AND CHEMICAL PROPERTIES

**Flash Point:** 122 °F  
**Autoignition Temperature:** 473 °F  
**Boiling Point:** 349 °F  
**Melting Point/Freezing Point:** -102 °F  
**Vapor Pressure:** 38 mmHg  
**Vapor Density (Air-1):** 4.7  
**Odor/Appearance:** Colorless to light yellow liquid with citrus odor

**Flammability Limits:** Lower: 1 Upper: 6  
**Specific Gravity:** 0.842  
**Volatile %:** 100  
**Evaporation Rate (Water=1):** No available data  
**pH:** Not Applicable  
**Solubility in Water:** Complete

## SECTION 10 - STABILITY AND REACTIVITY

**Chemical Stability:** Stable under normal use and temperature conditions.  
**Conditions to Avoid:** Keep away from heat, flame and other potential ignition sources.  
**Incompatible Materials:** Strong oxidizing agents  
**Hazardous Polymerization:** Will not occur.

## SECTION 11 - TOXICOLOGICAL INFORMATION

### Signs and Symptoms of Overexposure:

**Skin:** May cause slight redness. Prolonged or repeated contact may cause drying of the skin.

**Eyes:** Liquid in the eyes can be irritating, causing tearing and redness.

**Inhalation:** May cause nose, throat, and respiratory tract irritation, coughing and headache.

**Ingestion:** Not a normal route of entry. However, ingestion of large quantities may cause vomiting, headache, or other medical problems.

### Acute oral toxicity:

D-Limonene: LD50 rat: 4,400 mg/kg

### Acute inhalation toxicity:

D-Limonene: LD50 rat: No available data

### Acute dermal toxicity:

X D-Limonene: LD50 rabbit: > 5,000 mg/kg

## SECTION 12 - ECOLOGICAL INFORMATION

**Aquatic Toxicity:** This product is unlikely to pose a significant hazard to aquatic life.

**Bio-accumulative potential:** This product is rapidly biodegradable.

**Mobility:** Product is not likely to penetrate the soil due to rapid evaporation.

## SECTION 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.

## SECTION 14 - TRANSPORTATION

### U.S. DEPARTMENT OF TRANSPORTATION (Road or Rail):

**Proper Shipping Name:** Dipentene  
**Hazard Class:** 3  
**UN Number:** 2052  
**Packaging Group:** 3

## SECTION 15 · REGULATORY INFORMATION

### US FEDERAL REGULATIONS

#### Comprehensive Environmental Response and Liability Act (CERCLA)

**SARA 302:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**Toxic Substance Control Act (TSCA):** All components of this product are listed on the TSCA inventory list.

#### SARA Section 311/312 (40 CFR 370) Hazard Categories:

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

**SARA Section 313 (40 CFR 372) Hazard Categories:** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Clean Water Act:** This product contains no chemicals that are listed under the CWA.

**Clean Air Act:** This product contains no chemicals that are listed under the CAA.

**California Prop 65:** This product contains no chemicals known by the State of California to cause cancer, birth defects or other reproductive harm.

## SECTION 16 · OTHER INFORMATION

**MSDS Revision Date:** September 2014

**National Fire Protection Association (NFPA) Ratings:** This information is intended solely for the use of individuals trained in the NFPA system.

**Health:** 2

**Flammability:** 2

**Reactivity:** 0

The data in this Safety Data Sheet relates to the specific material designated and does not relate to its use in combination with any other material or process. The data contained is believed to be correct. However, since conditions of use are outside our control it should not be taken as warranty or representation for which Chemical Distribution Solutions assumes legal responsibility. This information is provided solely for your consideration, investigation, and verification.