

Safety Data Sheet

D-limonene

SECTION I - IDENTIFICATION

SOLVENT DIRECT

Solvent Direct Inc.
19129 S Hamilton Ave
Gardena, CA 90248

Chemtel Emergency Response :. (800) 255-3924

Product Number D-Lim
Product Name D-limonene
Chemical Family
CAS Number 94266-47-4
Date Prepared 10/17/2012
Revision Number 1/18/2018
Recommended Use Industrial Use Only

SECTION II - HAZARDOUS IDENTIFICATION

GHS CLASSIFICATION:

Classification

Flammable Liquids	Category 3
Aspiration Hazard	Category 1
Skin Corrosion/Irritation	Category 2
Sensitization, Skin	Category 1
Hazardous to the aquatic environment, long-term hazard	Category 1

DANGER!

GHS LABEL:



Hazard Statements

Flammable liquid and vapor
May be fatal if swallowed and enters airways
Causes skin irritation
May cause an allergic skin reaction
Very toxic to aquatic life with long lasting effects

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Precautionary Statements

P210	Keep away from heat/sparks/open flames/hot surface - No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/light/equipment, etc.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302+352	IF ON SKIN: Wash with soap and water.
P303+361+353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P331	Do NOT induce vomiting.
P332+313	If skin irritation occurs: get medical advice/attention.
P333+313	If skin irritation or a rash occurs: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.
P363	Wash contaminated clothing before reuse.
P370+378	In case of fire: Use dry sand, dry chemical, or alcohol-resistant foam for extinction.
P391	Collect spillage.
P403+235	Store in a well ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to an approved waste disposal plant.

SECTION III - COMPOSITION/INFORMATION ON INGREDIENTS

The precise composition of this product is proprietary information. In the event of a medical emergency, a complete disclosure will be provided to medical personnel.

Component Name	CAS #	Component%	OSHA PEL	ACGIH TLV
D-Limonene	94266-47-4	100	Not Listed	Not Listed

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SECTION IV - FIRST AID MEASURES

Contact with eyes: Flush with water for 15 minutes. Seek immediate medical attention.

Skin contact: Wash exposed areas with water and mild soap. Remove contaminated clothing immediately and launder before reuse. If irritations persist, seek immediate medical attention.

Inhalation: Remove victim to fresh air. Administer oxygen or artificial respiration if breathing is affected or stopped. Seek immediate medical attention if symptoms persist.

Ingestion: Rinse mouth with water.
Give large quantities of water . Never give anything by mouth to an unconscious person.

SECTION V - FIREFIGHTING MEASURES

Suitable Extinguishing Media: Water fog, foam, CO2, dry chemical.

Special Fire Fighting Procedures SCRA recommended. Smother to exclude air. Do not use water. Handle as an oil fire.

Unusual Fire Fighting Hazards: No unusual fire hazards known. Combustible liquid.

SECTION VI - ACCIDENTAL RELEASE MEASURES

Personal Precautions: Evacuate all unprotected personnel from the area.
Wear appropriate personal protective equipment.

Environmental Precautions: Prevent liquid from entering drains, sewers, waterways, ground and surface water or soil.
Notify proper authorities.

Methods for Cleaning Up: Absorb spills with the use of a solid absorber (e.g. dry sand, diatomaceous earth).

SECTION VII - HANDLING AND STORAGE

Handling and Storage:

- Keep away from sources of ignition - no smoking.
- Take measures to prevent the build up of electrostatic charge.
- Keep containers tightly closed when not in use.

SECTION VIII - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

EXPOSURE LIMITS:

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Component Name	CAS #	OSHA PEL	ACGIH TLV
D-Limonene	94266-47-4	Not Listed	Not Listed

Engineering Controls: Adequate local or mechanical ventilation to reduce vapor or mist to below the PEL or TLV. Mechanical ventilation otherwise recommended if necessary. Emergency eye wash and shower stations.

Monitoring: Wash hands prior to eating, drinking or using the restroom.
Any clothing or shoes which became contaminated with the product should be removed immediately and thoroughly laundered before wearing again.

Personal Protective Equipment (PPE)

Eye Protection: Wear tightly sealed goggles

Skin Protection: Impervious solvent resistant gloves.

Respiratory Protection: Not required

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colorless to pale Liquid
Odor	Strong Citrus Aroma
pH@25°C	-
Melting/Freezing Point	-96 °C (-140 °F)
Flashpoint	43°C (109°F)
Specific Gravity	0.838 0.843
Solubility	Not Soluable
Auto-Ignition Temperature	-
Decomposition Temperature	-
VOC Content	>95% by volume
Odor Threshold	-
Boiling Range	176°C (349°F)
Evaporation Point	0.2
Flammable Limits - Upper	6.1%
Flammable Limits - Lower	0.7%
Vapor Pressure	<2mmHg at 20°C
Vapor Density (Air=1)	-
Viscosity	-

SECTION X - STABILITY AND REACTIVITY

Stability: Oxidizes to a film in air. Oxidation behavior similar to that of rubber or drying oils.
Stable, under normal conditions of storage and handling.

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Conditions to Avoid: Extreme heat and ignition sources.

Strong oxidizing agents

Hazardous Decomposition/Byproducts: Carbon Monoxide, Irritating and toxic fumes and gases, carbon dioxide.

Hazardous Polymerization: Has not been reported

Polymerization Conditions to Avoid: None

Incompatibilities:

SECTION XI - TOXICOLOGICAL INFORMATION

Likely Route of Exposure: Contact and inhalation; ingestion possible.

Inhalation: Breathing spray or mists can be harmful.

Eye Contact: This material can cause significant eye irritation.

Skin Contact: Contact may cause mild skin irritation including redness, burning and drying/cracking of the skin. No harmful effects from skin adsorption are expected.

Ingestion:

Acute Toxicity Value:

Chronic (Long Term) Effects: This product does not contain any substances that are or "suspected" human carcinogens.

Toxicity:

Component Name	LD50	LC50
D-Limonene	Oral (rat): > 5 g/Kg - Derman (rabbit): > 5 g/Kg	

Reproductive Effects Not Applicable

Teratogenicity Not Applicable

Mutagenicity Not Applicable

Embryotoxicity Not Applicable

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Sensitization to Product Not Applicable

Synergistic Products Not Applicable

Carcinogenicity

SECTION XII - ECOLOGICAL INFORMATION

Ecotoxicity: Water hazard class 2 (Assessment by list): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Very toxic for aquatic organisms

Mobility: Information not available.

Degradability: Information not available.

BioAccumulation: Information not available.

SECTION XIII - WASTE DISPOSAL CONSIDERATIONS

Dispose in Accordance with Local, State, and Federal Regulations.

SECTION XIV - TRANSPORT INFORMATION

DOT SHIPPING INFORMATION

Proper Shipping Name: Terpene hydrocarbons, n.o.s.

Contains:

Hazard Class and Label: 3

Identification Number: UN2319

Packaging Group: III

Other Shipping Info:

SECTION XV - REGULATORY INFORMATION

TSCA STATUS:..... The components of this product are listed on the TSCA Inventory

SARA TITLE III SECTION 302/304 EXTREMELY HAZARDOUS SUBSTANCE:

No chemicals in this material are subject to the reporting requirements.

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SARA TITLE III SECTION 311/312 HAZARD CATEGORIZATION:

Acute	Chronic	Fire	Pressure	Reactive

SARA TITLE III SECTION 313 SUPPLIER INFORMATION:

No chemicals in this material are subject to the reporting requirements.

CERCLA SECTION 102(a) HAZARDOUS SUBSTANCE:

No chemicals in this material are subject to the reporting requirements.

CALIFORNIA PROPOSITION 65:

No chemicals in this material are subject to the reporting requirements.

SECTION XVI - OTHER INFORMATION

HMIS Health: 1

HMIS Flammability: 2

HMIS Reactivity: 0

Additional: CALIFORNIA SAFE DRINKING WATER & TOXIC ENFORCEMENT ACT
(PROPOSITION 65): This product contains a chemical(s) known to the state of California to cause cancer and birth defects or other reproductive harm.

Specification Information

Department issuing data sheet: Compliance

Email address: compliance@transcheminc.com

Training necessary: Follow all Federal, State and local regulations.

Disclaimer:

Seller and manufacturer disclaim any implied or expressed warranties, including warranties of merchantability or fitness of this product for any particular purpose. In no event shall seller be liable for any claim for incidental or consequential damages arising out of or in connection with the sale, delivery, transportation or use of this product. Seller's and manufacturer's liability in all events is limited to, and shall not exceed the purchase price paid for this product.