



# MATERIAL SAFETY DATA SHEET

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## SECTION 1 - COMPANY INFORMATION

### D-Limonene Grease Trap Cleaner

Product usage: Grease trap cleaner  
Product type: Organic Solvent  
WHMIS Class: Combustible Liquid, Class B-3; Class D2B  
Hazard Rating: Health (1) Moderate; Fire (2) Moderate; Reactivity (0) insignificant  
TDG Glass: Not Regulated

#### Supplier name and address:

Corporate Chemicals & Equipment  
7 Neilson Street  
St. Catharines, ON L2M 5V9  
(905) 682-8888

#### Manufacturer's name and address

Refer to Supplier



Emergency Telephone# CANUTEC (613) 996-6666

## SECTION 2 - HAZARDOUS INGREDIENTS

INGREDIENT	%	CAS#	TOXICITY
D-Limonene Synonym: 1,8(9) p-methadiene	>40	5989-27-5	TLV (ppm): 150; LD50: (oral rat) 5000 mg/kg LD50: (dermal rabbit) >5000 mg/kg LC50:N/A

## SECTION 3 - HAZARDS IDENTIFICATION

#### Potential Acute Health Effects:

**Eye Contact:** May irritate eyes.

**Skin Contact:** May cause moderate skin irritation. Contains a component which is a known or suspected skin sensitizer.

**Inhalation:** Vapour may be irritating to throat, lungs and pulmonary tract.

**Ingestion:** May be harmful if swallowed.

## SECTION 4 - FIRST AID MEASURES

#### Effects of Acute Exposure to:

**Skin:** No irritation after brief contact. Prolonged contact may cause skin irritation, defatting, chapping and dermatitis.

**Eyes:** Vapors and mists may cause irritation.

**Ingestion:** May cause headache, nausea, vomiting, and weakness.

**Inhalation:** Irritating. Prolonged or repeated exposure or breathing very high concentrations of vapors may cause headaches, nausea, vomiting, dizziness, central nervous system (CNS) depression, and coma.

**Other:** CNS Depression characterized by headache, dizziness, nausea, vomiting, abdominal pain and incoordination. Severe overexposure may lead to coma possible death due to respiratory failure.

**Chronic:** On prolonged repeated exposure may cause defatting and drying of the skin resulting in skin irritation and dermatitis. Vapor is irritating to throat and lungs.



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## First Aid Procedures:

<b>Skin:</b>	Remove contaminated clothing immediately. Wash exposed areas with cool running water. Call a physician if necessary.
<b>Eyes:</b>	Flush with running water for 20 minutes lifting the upper and lower eyelids occasionally. Remove contact lenses. If irritation persists, get medical attention.
<b>Ingestion:</b>	Do not induce vomiting. If victim is alert and not convulsing, give a-2 glasses of water to dilute material. Immediately contact local poison control centre. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in vomit, rinse mouth and administer more water. Immediately transport victim to an emergency facility.
<b>Inhalation:</b>	Move victim to fresh air. Give artificial respiration only if breathing has stopped. Give cardiopulmonary resuscitation (cpr) if there is no breathing and no pulse. Obtain medical advice immediately.

## SECTION 5 - FIRE FIGHTING MEASURES

<b>Flash point:</b>	46 Deg. C. (TCC)		
<b>Upper Flammable Limit (% by vol.):</b>	6.1	<b>Lower Flammable Limit (% by vol.):</b>	0.7
<b>Flammability:</b>	Flammable, avoid high temperatures, sparks, flames, and sources of ignition		
<b>Combustion Products:</b>	Oxides of carbon		
<b>To Extinguish:</b>	Dry chemical, carbon dioxide, foam, water. If using water, fog is more effective		
<b>Other:</b>	Vapors being heavier than air can travel to ignition sources.		

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

**Personal Precautionary Measures:** Wear appropriate protective equipment.

**Environmental Precautionary Measures:** Prevent entry into sewers or streams, dike if needed.

**Procedure for Clean Up:** Eliminate all ignition sources. Ventilate area. Absorb with an inert dry material and place in an appropriate waste disposal container.

## SECTION 7 - HANDLING AND STORAGE

<b>Disposal Method:</b>	Dispose of small quantities with dry absorbant material. Place waste material outside. For large spills, evacuate area, ventilate to provide fresh air. Check with local environmental department, and government authorities.
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## SECTION 8 - EXPOSURE CONTROLS & PROTECTIVE EQUIPMENT

<b>Ventilation:</b>	Provide adequate building ventilation. Use forced air fans if necessary to keep vapour below hazardous levels.
<b>Breathing Protection:</b>	Suitable breathing mask if mists or vapours are present. Limit amount of product used depending on ventilation.
<b>Skin Protection:</b>	Impervious gloves, rubber boots, barrier cream
<b>Eye Protection:</b>	Safety glasses with side shields when there is potential for eye contact. Contact Lenses should not be worn as product may lodge under lens.

As with all chemicals there are known and unknown effects on humans. Minimize exposure of all chemicals, including this product, to the skin, respiratory system, and eyes. Store product in suitable labeled containers. Keep containers closed when not in use. Rinse work area after use. Keep out of reach of children. Avoid contamination of food. Wash thoroughly after handling. Store in cool dry well ventilated area away from open flame and heat sources.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Clear colorless liquid	<b>Density (g/ml):</b>	0.79
<b>pH as is:</b>	Not Applicable	<b>Freezing Point:</b>	Not known
<b>pH use dilution:</b>	Not Applicable	<b>Boiling Point:</b>	321-349 Deg. F.
<b>Solubility in water:</b>	Not Soluble	<b>Evaporation Rate:</b>	0.1 x Butyl Acetate
<b>Odor:</b>	Citrus – orange	<b>Volatility (VOC):</b>	Over 90%



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## SECTION 10 - REACTIVITY & STABILITY DATA

Product is stable, no harmful reactivity to any common substance. Avoid strong Oxidizers. Flammable under fire conditions. Hazardous polymerization will not occur.

## SECTION 11 - TOXICOLOGICAL INFORMATION

**Route of Entry:** Skin contact, eye contact, inhalation, and ingestion.

### Effects of Acute Exposure

**Skin:** No irritation after brief contact. Prolonged contact may cause skin irritation.  
**Eyes:** Irritation upon direct contact. Vapors may irritate.  
**Ingestion:** May cause headache, nausea, vomiting and weakness.  
**Inhalation:** If misted, may cause irritation of mucous membranes, coughing and difficulty breathing.

**Effects of Chronic Exposure:** Prolonged or repeated exposure can cause skin irritation, defatting, chapping, dermatitis.

<b>Exposure Limits:</b>	Not available	<b>Irritancy of Product:</b>	Not available
<b>Sensitization:</b>	Not available	<b>Teratogenicity:</b>	Not available
<b>Carcinogenicity:</b>	None	<b>Mutagenicity:</b>	Not available
<b>Reproductive Toxicity:</b>	Not available	<b>Toxicologically Synergistic Products:</b>	Not Available

## SECTION 12 - ECOLOGICAL INFORMATION

### Ecotoxicological Information:

Ingredients	Ecotoxicity - Fish Species Data	Acute Crustaceans Toxicity:	Ecotoxicity - Freshwater Algae Data
D-limonene	LC50 96 h (Pimephales promelas) 0.619-0.796 mg/L flow-through LC50 96 h (Oncorhynchus mykiss) 35 mg/L	Not Available.	Not Available.

**Other Information:**  
No additional remark.

## SECTION 13 - WASTE DISPOSAL

**Leak and Spill Procedure:** Refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice.

**Waste Disposal:** Review federal, provincial, and local government requirements prior to disposal.  
Storage Requirements: Keep out of reach of children. Do not freeze. Store in a closed container away from incompatible materials.

## SECTION 14 - TRANSPORTATION INFORMATION

**DOT (U.S.):**  
**DOT Shipping Name:** TERPENE HYDROCARBONS N.O.S. (D'LIMONENE)  
**DOT Hazardous Class 3**  
**DOT UN Number:** UN2319  
**DOT Packing Group:** III  
**DOT Reportable Quantity (lbs):** Not Available.  
**Note:** No additional remark.  
**Marine Pollutant:** No.  
**TDG (Canada):**



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**TDG Shipping Name:** TERPENE HYDROCARBONS N.O.S.

**Hazard Class:** 3

**UN Number:** UN2319

**Packing Group:** III

**Note:** Not regulated under the Transportation of Dangerous Goods Act when transported by road or rail in packaging's or containers of 450 L or less (waste excluded).

**Marine Pollutant:** No.

**Shipping Information:** Do not freeze.

## SECTION 15 - REGULATORY INFORMATION

**MSDS Prepared by:** Technical Dept.

**Telephone:** (905) 682-8888

## SECTION 16 - OTHER INFORMATION

References: Suppliers Material Safety Data Sheets.

**Preparation Date:** July 1/2011

NOTICE: The data and information presented herein are based upon tests, research and reports which are considered by us to be reliable and believed to be accurate. The data and information are presented without warranty, guarantee or liability on our part, and are presented to the customer for his own consideration, investigation and verification. If user requires independent information on ingredients in this or any other material, we recommend contact with Canadian Centre for Occupational Health and Safety (CCOHS) in Hamilton, Ontario (905 572-4400)