



MATERIAL SAFETY DATA SHEET

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SECTION 1 - COMPANY INFORMATION

D-Limonene Gum & Grease Remover

Product usage: Spot remover for carpets
WHMIS Class: B3, D2B
TDG Class: See recent shipping bill of lading for current status
Poison Control: In Ontario: 1-800-268-9017 In Toronto: 416-813-5900

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#	%	ACGIH-TLV	LC50	LD50
D'Limonene synonym: 1,8(9) p-menthadiene	5989-27-5	90 - 100	150 ppm	Not available	5000 mg/kg oral rat >5000 mg/kg dermal rbt

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

Skin:	Immediately flush with cool water for 15 minutes while removing contaminated clothing and shoes. Discard or wash well before reuse. Seek medical attention immediately.
Eyes:	Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for 15 minutes. Seek medical attention immediately.
Ingestion:	Do not induce vomiting. Rinse mouth with water then drink one or two glasses of water. Seek medical attention, or contact poison control centre immediately. Never give anything by mouth if victim is unconscious, is rapidly losing consciousness or is convulsing.
Inhalation:	Move victim to fresh air. Seek medical attention immediately

SECTION 5 - FIRE FIGHTING MEASURES

Conditions of Flammability:	See flash point.
Means of Extinction:	Dry chemical, carbon dioxide, foam, water. If using water, fog is more effective.
Flash point:	46 Deg. C. (TCC)
Upper flammable limit:	6.1 % by volume
Lower flammable limit:	0.7 % by volume.
Auto-ignition temperature:	Not available.
Hazardous combustion products:	Oxides of carbon.
Explosion Data - sensitivity to mechanical impact:	Insensitive
Explosion Data - sensitivity to static discharge:	Not available.

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.



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SECTION 7 - HANDLING AND STORAGE

Handling: Do not ingest. Avoid prolonged contact with eyes or prolonged skin contact. Use good personal hygiene. Properly discard any item soaked with this material, as spontaneous heating may occur.

Storage: Keep away from direct sunlight. Store in original container. Check quality before use if stored for more than 6 months. Store in a cool, dry, well ventilated area, away from heat and ignition sources. Place away from incompatible materials. Store in accordance with good industrial practices.

SECTION 8 - EXPOSURE CONTROLS & PROTECTIVE EQUIPMENT

Breathing Protection: Suitable breathing mask or respirator if mists or vapours are present.
Skin Protection: Rubber gloves, rubber boots, or barrier cream if contact is expected.
Eye Protection: Safety glasses with side shields when there is potential for eye contact
Engineering Controls: Normal building ventilation is adequate.

Ingredients	Exposure Limit - ACGIH	Exposure Limit -	OSHA Immediately Dangerous to Life or Health - IDLH
D-limonene	Not available.	Not available.	Not Available.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	Evaporation Rate:	0.1 x Butyl Acetate
Odour and Appearance:	Sweet orangelike, clear colourless liquid	Boiling Point:	321 - 349 Deg F
Odour Threshold:	Not available	Freezing point:	Not available
Specific Gravity:	0.84 (Water=1)	pH as supplied:	Not applicable
Vapour Pressure:	Not available	pH use dilution:	Not applicable
Vapour Density:	Not available	Water/Oil Dist. Coeff.:	Not available

SECTION 10 - REACTIVITY & STABILITY DATA

Chemical Unstability: Product is stable. **Conditions of Reactivity:** None
Incompatibility: Strong concentrated acids, oxidizing and reducing agents. Do not mix with chlorine bleach.
Hazardous Decomposition Products: Oxides of carbon when burned

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.

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



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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):

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 packagings 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)