

SECTION 1 – IDENTIFICATION

NAME / CODE: **D-LIMO / 98533XX**

USE: Concentrated cleaner for glue and adhesive.

MANUFACTURER: **B.O.D. CHEMICALS INC.**
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SECTION 2 – HAZARDS IDENTIFICATION

GHS CLASSIFICATION

PHYSICAL HAZARDS: Flammable liquids, category 3

HEALTH HAZARDS: Skin corrosion / Irritation, category 2
 Sensitization - Skin, category 1
 Aspiration hazard, category 1

ENVIRONMENTAL HAZARDS: Not available

GHS LABEL ELEMENTS

PICTOGRAM:



SIGNAL WORD: DANGER

HAZARD STATEMENTS: Flammable liquid and vapour.
 Causes skin irritation.
 May cause an allergic skin reaction.
 May be fatal if swallowed and enters airways.

PRECAUTIONARY STATEMENTS

PREVENTION: Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Avoid breathing vapours. Contaminated work clothing should not be allowed out of the workplace.

RESPONSE: **In case of fire:** Use water spray, carbon dioxide, and alcohol-resistant foam for extinction. **If on skin (or hair):** Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of soap and water. Specific treatment (see supplemental first aid on the label). **If skin irritation occurs:** Get medical advice/attention. Take off contaminated clothing and wash it before reuse. **If swallowed:** Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

STORAGE / DISPOSAL: Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container in accordance with local regulations (see 13th section).

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT	CAS	% (W/W)
d-Limonene	005989-27-5	60 - 100

SECTION 4 – FIRST AID MEASURES

SKIN:	Remove contaminated clothing. Wash with plenty of soap and water. Consult a physician if irritation persists.
EYES:	Rinse cautiously with water for 10-15 minutes, keeping eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
INGESTION:	Rinse mouth. Do not induce vomiting. Drink 3 to 4 glasses of water. Do not give anything by mouth if victim is unconscious. Call a physician immediately.
INHALATION:	Breathe fresh air. Give artificial respiration if necessary. Consult a physician if discomforts persist.
MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:	Skin: Irritation, redness of the skin. Inhalation: May cause lung inflammation or damage if enters lungs through vomiting or swallowing. Inhalation may cause irritation of the nose, throat and respiratory tract.
TO PHYSICIAN:	Treat symptoms.

SECTION 5 – FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA:	Water spray, carbon dioxide, chemical powder, foam.
UNSUITABLE EXTINGUISHING MEDIA:	Do not use water jet as an extinguisher, as this will spread the fire. Do not use an extinguisher containing halogenated agents.
SPECIFIC HAZARDS OF THE HAZARDOUS PRODUCT:	The product is flammable. In case of fire, toxic fumes are emitted. The product does not burn itself but can decompose during heating to produce carbon monoxide and dioxide and toxic fumes. Vapors may cause a flash fire or ignite explosively. Prevent buildup of vapors or gases to explosive concentrations.
SPECIAL FIRE FIGHTING PROCEDURES:	Wear protective clothing and self-contained breathing apparatus if necessary.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:	Ventilate enclosed areas. Avoid contact of the product with eyes and skin. Wear gloves, safety goggles and respirator if needed. Prevent discharge in sewers. Keep away from incompatible materials.
ENVIRONMENTAL PRECAUTIONS:	Avoid the spillage or runoff entering drains, sewers or watercourses.
METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:	Wear protective clothing. Control spill to prevent runoff into sewers. Cover with inert absorbent material and recover in suitable containers. Sweep and rinse with water.

SECTION 7 – HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:	Avoid contact of the product with eyes and skin. Wash thoroughly after handling.
CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:	Keep containers closed, in fresh, dry and well ventilated area, away from incompatible materials.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS

INGREDIENT	CAS	VALUE	REGULATION
d-Limonene	5989-27-5	TWA: 3 ppm, 8h	AIHA

APPROPRIATE ENGINEERING CONTROL: Good ventilation

PERSONAL PROTECTIVE EQUIPMENT



SKIN:	Protective clothing. Impermeable gloves.
EYES:	Wear a face shield and safety glasses.
RESPIRATORY:	If ventilation is inadequate, suitable respiratory protection must be worn.
HYGIENE MEASURES:	Wash hands after handling.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE / FORM:	Clear liquid
COLOR:	Colorless
ODOR:	Citrus
ODOR THRESHOLD:	Not available
pH:	Not applicable
MELTING POINT / FREEZING POINT (°C):	-96
BOILING POINT (°C):	176
FLASH POINT (°C):	> 43
EVAPORATION RATE:	0.2
EXPLOSIVE LIMITS:	Not available
VAPOUR PRESSURE:	< 2 mm Hg
VAPOUR DENSITY:	4.7
DENSITY (kg/L):	0.83 - 0.85
WATER SOLUBILITY:	Immiscible
PARTITION COEFFICIENT N-OCTANOL / WATER:	Not available
AUTOIGNITION TEMPERATURE (°C):	237
DECOMPOSITION TEMPERATURE (°C):	Not available

SECTION 10 – STABILITY AND REACTIVITY

REACTIVITY:	No dangerous reaction known under conditions of normal use.
CHEMICAL STABILITY:	Stable at normal ambient temperatures and when used as recommended.
HAZARDOUS REACTIONS:	Hazardous polymerisation does not occur.
CONDITIONS TO AVOID:	High temperatures, sparks, flames. Contact with incompatible materials.
INCOMPATIBILITY:	Strong oxidizing agents and strong acids, including acidic clays, peroxides, halogens, vinyl chloride and iodine pentafluoride.
HAZARDOUS DECOMPOSITION PRODUCTS:	Not available.

SECTION 11 – TOXICOLOGICAL INFORMATION

INFORMATION ON LIKELY ROUTES OF EXPOSURE

SKIN:	Causes skin irritation.
EYES:	May cause an irritation.

INHALATION: May cause irritation of the nose, throat and respiratory tract.

INGESTION: May be fatal if swallowed and enters airways.

INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE ORAL TOXICITY: LD50 (oral, rat): 2 g/kg. No health effects (normal conditions of use).

ACUTE DERMAL TOXICITY: LD50 (dermal, lapin): 5 g/kg. No health effects (normal conditions of use).

ACUTE INHALATION TOXICITY: Not available. No health effects (normal conditions of use).

SKIN CORROSION / IRRITATION: Causes skin irritation.

SERIOUS EYE DAMAGE / EYE IRRITATION: May cause an irritation.

RESPIRATORY SENSITIZATION: Not expected to cause respiratory sensitization.

SKIN SENSITIZATION: May cause an allergic skin reaction.

GERMINAL CELL MUTAGENICITY: No data available to indicate product or components present at greater than 0.1% are mutagenic or genotoxic.

CARCINOGENICITY: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen.

REPRODUCTIVE TOXICITY: No potential reproductive toxicity.

SPECIFIC TARGET ORGAN TOXICITY-SINGLE EXPOSURE: Not classified.

SPECIFIC TARGET ORGAN TOXICITY-REPEATED EXPOSURE: Not classified.

ASPIRATION HAZARD: May be fatal if swallowed and enters airways.

SECTION 12 – ECOLOGICAL INFORMATION

ECOTOXICITY: d-Limonene
LC50, Fish and Daphnia magna, 0.1-1 mg/l, 48h

PERSISTENCE AND DEGRADABILITY: Not available

BIOACCUMULATIVE POTENTIAL: Not available

MOBILITY IN SOIL: Not available

OTHER ADVERSE EFFECTS: Not available

SECTION 13 – DISPOSAL CONSIDERATIONS

DISPOSAL INSTRUCTIONS: Collect in appropriate containers and recycle or dispose the product at a licensed waste disposal site or in accordance with local regulations. Avoid the spillage or runoff entering drains, sewers or watercourses.

HAZARDOUS WASTE CODE: The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

CONTAMINATED PACKAGING: Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14 – TRANSPORT INFORMATION

TDG: UN2319, TERPENE HYDROCARBONS, N.O.S. Class 3, PG III

SPECIAL PRECAUTIONS FOR USER: Read safety instructions, SDS and emergency procedures before handling.

SECTION 15 – REGULATORY INFORMATION

Ingredients included on inventory of DSL (Canada), REACH, TSCA (USA)

SECTION 16 – OTHER INFORMATION

PRODUCT NAME: D-LIMO

CODE: 98533XX

**IN CASE OF
ACCIDENTAL SPILL:** CANUTEC (Canada): 1 (613) 996-6666

PREPARED BY: B.O.D. CHEMICALS INC.

PHONE: (450) 443-5556

DATE: October 29th, 2019

B.O.D. CHEMICALS INC. assume no responsibility for damages or physical injuries resulting in the use of this product. The user recognizes the risk in the use of this product and must consult and respect directions and dangers of this product.