

# MATERIAL SAFETY DATA SHEET - BDQ-470

BIO-LUB CANADA INC.  
650, Route 349 Nord, Saint-Alexis-des-Monts (Québec) Canada J0K 1V0  
Phone : 819-265-2026, Fax : 819-265-2464  
www.bio-lubcanada.com

## Section I. Product and company identification

Product name : BDQ-470  
Manufacturer : Bio-Lub Canada Inc.  
Emergency phone number : Canutec 613-996-6666  
Product uses : Solvent to tar and bitumen. Use to clean parts and equipments  
WHMIS class: D2B

## Section II. Composition / information on ingredients

Ingredients	CAS number	Poucentage	Regulated by WHMIS
D-Limonene	5989-27-5	30-70 %	Yes

## Section III. Hazards identification

Potential acute health effects: May irritate eyes and skin. May cause irritation to the respiratory system if vapours are inhaled. May cause intestinal damages if swallowed.

Potential chronic health effects :  
Carcinogenic effects : None  
Mutagenic effects : None  
Teratogenic effects : None  
Reproductive system effects: None

## Section IV. First aid measures

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes.

Skin contact : Wash with soap and water.

Inhalation : If inhaled, remove to fresh air. Get medical attention if symptoms persist.

Ingestion : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink water. If large quantities of this material are swallowed or if symptoms appear, call a physician immediately.

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## Section V. Fire and explosion data

Auto-ignition temperature:	Not available
Flash point :	>130°C or 266°F
Flammable limits:	Not available
Extinguishing media:	Dry chemical powder, foam, CO <sub>2</sub> .
Protective measures for firefighters:	Use a self contained breathing apparatus. Avoid vapours or fume inhalation.
Products of combustion :	Forms acrid fumes, carbon monoxide and carbon dioxide.
Substances who may cause fire or explosion :	Oxidizing agents.
Special remarks on fire and explosion hazards :	Avoid spraying with water. Keep away from sparks and flames.
Incompatibility :	Strong oxidizing agents, strong bases and strong acids, including acidic clays, peroxides, halogens, vinyl chloride and iodine pentafluoride.
Spontaneous polymerization:	No danger

## Section VI. Accidental release measures

Spill :	Eliminate all ignition sources. Isolate the hazard area. Use absorbent and put the spilled material in an appropriate waste disposal. Avoid to release into sewers/water supplies. Neutralization isn't necessary. Inform authority if necessary.
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## Section VII. Handling and storage

Storage:	Store in a cool well-ventilated area. Keep away from light sources and humidity. Keep away from sources of ignition and oxidizing agents.
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## Section VIII. Exposure controls / Personal protection

Exposure limits:	Citrus terpenes 8h TWA = 30ppm (AIHA Standard)
Engineering Controls:	Local ventilation: Required Mechanical ventilation: Normaly not required. Recommended in case of vapours or fumes.
Personal protection:	Eyes : Safety goggles

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Gloves : Chemical resistant gloves. Nitrile gloves are recommended.

Respiratory : A NIOSH approved air purifying respirator with an organic vapour cartridge may be use if vapours.

Hygienic work practices :

Wash with water and soap after contact. Avoid swallow. Ensure to do good hygienic personal practices.

### Section IX. Physical and chemical properties

Appearance et odour:	Clear, pale yellow liquid with citrus aroma
Boiling point :	>100°C
Density :	0,869 g/cm <sup>3</sup> at 20°C
Water solubility :	Non soluble
Odour threshold:	Not available
Percent volatile :	Not available
Vapor pressure:	< 2 mm Hg at 20°C
Evaporation rate:	< 1 (BuAC=1)

### Section X. Stability and reactivity data

Stability :	The product is stable, spontaneous polymerization will not occur.
Incompatibility :	Strong oxidizing agents, strong bases and strong acids, including acidic clays, peroxides, halogens, vinyl chloride and iodine pentafluoride.
Hazardous decomposition products:	Forms acrid fumes, carbon monoxide and carbon dioxide.

### Section XI. Toxicological information

Routes of entry:	Absorbed through skin. Inhalation. Ingestion.
Toxicity to animals:	Low oral toxicity (LD <sub>50</sub> > 5g/kg) and low dermal toxicity (LD <sub>50</sub> > 5g/kg) when tested on rabbits. Low toxicity by inhalation (RD <sub>50</sub> > 1g/kg) when tested on mouse.
Chronic effects on Humans:	Prolonged or repeated exposures may cause irritation on eyes, skin and respiratory tract.

### Section XII. Ecological information

Ecotoxicity :	Not available
Biodegradable :	Yes
BOD5 and COD :	Not available
Biodegradation products :	Not available
Toxicity of biodegradation products :	Not available

### Section XIII. Disposal considerations

Waste disposal:	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
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## Section XIV. Transport information

Proper shipping name:	Terpenes hydrocarbons, N.O.S
Hazard class:	Class 3
UN number :	UN 2319
Packing group:	III
Maximum limited quantity value :	N/A

## Section XV. Other regulatory information and pictograms

Hazardous material information system (USA)	Minor	0	Health hazard	1
	Light	1	Fire hazard	1
	Moderate	2	Reactivity	0
	Serious	3	Personal protection	0
	Severe	4		

WHMIS Classification : D2B

## Section XVI. Others informations

References : Material safety data sheets made by the Commission de la santé et de la sécurité du travail du Québec. Suppliers Material safety data sheets.

Created by : Quality control department  
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