

MATERIAL SAFETY DATA SHEET - BDQ-415

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-415

Manufacturer : Bio-Lub Canada Inc.

Emergency phone number : Canutec 613-996-6666

Product uses : Cleaner, degreaser for parts and equipments for heavy work, water soluble

WHMIS class: D2B

Section II. Composition / information on ingredients

Ingredients	CAS number	Poucentage	Regulated by WHMIS
D-Limonene	5989-27-5	10-60 %	Yes
Emulsifier	Mix	2-10 %	No

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.

Material safety data sheet

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 ₂ .
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.
---------	---

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.
----------	---

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 Gloves : Chemical resistant gloves. Nitrile gloves are recommended.

Material safety data sheet

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 ³ at 20°C
Water solubility :	Soluble, emulsion
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 ₅₀ > 5g/kg) and low dermal toxicity (LD ₅₀ > 5g/kg) when tested on rabbits. Low toxicity by inhalation (RD ₅₀ > 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.
-----------------	--

Material safety data sheet

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
Phone : 819-265-2026
Date : January 08, 2010

Revised : January 10, 2010

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Bio-Lub Canada Inc. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Bio-Lub Canada Inc. has been advised of the possibility of such damages.

“BIO-LUB CANADA INC. MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, BIO-LUB CANADA INC. WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.”