MATERIAL SAFETY DATA SHEET - BDQ-490

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Section I. Product and company identification

Product name :	BDQ-490
Manufacturer :	Bio-Lub Canada Inc.
Emergency phone number :	Canutec : 613-996-6666
Product uses :	Fast evaporating cleaner
WHMIS class:	B2, D2B

Section II. Composition / information on ingredients

Ingredients	CAS number	Poucentage	Regulated by WHMIS
Ethyl alcohol	64-17-5	> 95%	Yes
Isopropyl alcohol	67-63-0	< 5%	Yes

Section III. Hazards identification

Potential acute health effects:

Ingestion: May cause dizziness, weakness, lower faculties, diminished reflexes, euphoria, abdominal discomfort, nausea, vomiting, staggering gait, lack of coordination and coma.
Skin contact: May cause irritation. The prolonged or repeated exposure can cause dermatitis and erythema. No adverse effect on normal skin.
Inhalation: At high concentrations, vapors cause a burning sensation in the throat, nose and eyes and a tear effect. At lower concentrations, irritation, dizziness, weakness, fatigue, nausea and vomiting may also occur.
Eye contact: Vapors may irritate eyes. The damage caused by contact with liquid is reversible and proper medical care will ensure a recovery after a few days. The injury usually presents as a benign conjunctivitis, which occurs mainly by redness of the conjunctiva.

Potential chronic health effects :

Carcinogenic effects : None
Mutagenic effects : None
Teratogenic effects : None
Reproductive system effects: None

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Section IV. First aid measures

Eye contact:	Immediately flush eyes with water for a period of 20 minutes, keeping eyelids open. Consult a physician immediately.
Skin contact :	Rinse with water, exposed area for 20 minutes. Remove contaminated clothing under running water. Completely decontaminate clothing before reuse or discard. If there is irritation, consult a physician.
Inhalation :	Place the victim quickly to fresh air. If the victim has stopped breathing, administer artificial respiration, if the victim's heart stopped beating, administer CPR. Oxygen can be administered if deemed necessary. Consult a physician immediately.
Ingestion :	Never give anything by mouth if victim is unconscious on the verge of becoming homeless or in a state of convulsion. Do not induce vomiting. Drink about 250 ml (8oz) of water if vomiting occurs naturally, have victim lean forward to avoid aspiration. Consult a physician immediately.

Section V. Fire and explosion data

Auto-ignition temperature:	> 400˚C or 752˚F
Flash point :	13˚C
Lower flammable limits:	3.2 ˚C
Upper flammable limits:	18.0˚C
Extinguishing media:	Dry chemical powder, foam, CO_2. Avoid using water because it can spread the combustible.
Protective measures for firefighters:	Use a self contained breathing apparatus. Avoid vapours or fume inhalation.
Products of combustion :	Carbon monoxide, carbon dioxide and formaldehyde.
Substances who may cause fire or explosion :	Oxidizing agents.
Special remarks on fire and explosion hazards :	Use water to cool containers exposed to fire.
Incompatibility :	Oxidizing agents
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.

Section VIII. Exposure controls / Personal protection

Exposure limits:	Up to 1000 ppm, a respirator filter catridges for organic vapors may be used.
Engineering Controls:	Local ventilation: Required Mechanical ventilation: Normally not required. Recommended in case of vapours or fumes. Mechanical ventilation is recommended in case of formation of vapour or mist. It must be spark proof, grounded and isolated from other ventilation systems.
Personal protection:	Eyes : Safety goggles Gloves : Chemical resistant gloves. Neoprene gloves, butyl or natural rubber are recommended. Respiratory : A NIOSH approved air purifying respirator with an organic vapour cartridge may be use if vapours are present.
Hygienic work practices :	Wash with water and soap after contact. Avoid swallow. Ensure to do good hygienic personal practices. Have at your disposal, eye wash, safety shower and other appropriate protective equipement.

Section IX. Physical and chemical properties

Appearance et odour:	Liquid color-free
Boiling point :	79˚C
Density :	0,80 g/cm^3 at 20˚C
Water solubility :	Soluble
Odour threshold:	Between 0,1 and 5100 ppm
Percent volatile :	100
Vapor pressure:	Not available
Evaporation rate:	2 (BuAC=1)

Section X. Stability and reactivity data

Stability :	The product is stable, spontaneous polymerization will not occur.
Incompatibility :	Oxidizing agents.
Hazardous decomposition products:	Carbon monoxide, carbon dioxide and formaldehyde.

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Section XI. Toxicological information

Products	% (v/v)	CAS number	TLV / ppm	LC50 (ppm/4h)	LD50 (mg/kg)	LD50 (mg/kg)
				Rat, inhalation	Rat, oral	Rabbit, skin
Ethyl alcohol	95	64-17-5	1000	31,623	7,060	20,000
Isopropyl alcohol	5	67-63-0	400	16,970	4,420	13,000

Section XII. Ecological information

Ecotoxicity : Not available
BOD5 and COD : Not available
Biodegradability: Yes
Products of biodegradation : Not available
Toxicity of the Products of Biodegradation: Not available

Section XIII. Disposal considerations

Waste disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section XIV. Transport information

Proper shipping name: Alcohol N.S.A.
Hazard class: Class 3, combustible liquid
UN number : UN 1987
Packing group: II
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	3
Moderate	2	Reactivity	0
Serious	3	Personal protection	0
Severe	4		

WHMIS Classification : B2, 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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