

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**PRODUCT NAME: A-420****DATE: May 18, 2007****SUPPLIER:** Melrose Chemicals Ltd.
2323-46th ave.
Lachine, QC
CANADA H8T 3C9
Tel: +1 (514) 631-2998
Fax: +1 (514) 631-2997**PRODUCT USE: Boil-out degreaser****II. COMPOSITION/ INFORMATION ON INGREDIENTS**

Chemical Identity:	EINECS #	CAS #	% Conc.	Classification
Potassium hydroxide	215-181-3	1310-58-3	30 - 60	C; R35
2,2',2"-nitrilotriethanol	203-049-8	102-71-6	10 - 30	Xi, R36, 43
Ingredients according to Directive 2004/648/EC				
Amphoteric surfactants	<5%			

III. HAZARDS IDENTIFICATION**Hazard classification of product according to Directive 1999/45/EC:** C, corrosive**Hazards for humans:** Causes severe burns.**Hazards for environment:** Strongly alkaline, pH value of water can harm water-organisms.**IV. FIRST AID MEASURES****Contact with skin:** Wash off in flowing water or shower. Wash contaminated clothing before re-use.**Contact with eyes:** Immediately flush eyes with water for 15 minutes and call a physician.**Inhalation:** Not applicable.**Ingestion:** Drink one glass of water immediately. **Do not induce vomiting.** Call Regional Poison Control Centre at once or see your local hospital emergency at once.**V. FIRE FIGHTING MEASURES****Conditions of flammability:** Not applicable.**Means of extinction:** Not applicable.**Hazardous combustion products:** Not applicable.**Unusual fire and explosion hazards:** Not applicable.**VI. ACCIDENTAL RELEASE MEASURES****Procedures to be followed in case of spills or leaks:** Do not allow chemical to enter sewers or waterways. With large spills, dike for later disposal.**Personal protective equipment to be used:** Protective gloves and safety glasses.**VII. HANDLING AND STORAGE****Special handling procedures and equipment:** When diluting, always add product to water, never water to product. Heat is generated upon dilution.**Specific storage requirements:** Do not store near excessive heat or open flame. Store in closed containers. Do not freeze.**VIII. EXPOSURE CONTROL/PERSONAL PROTECTION****Respiratory Protection:** Not applicable.**Protective Gloves:** Rubber or neoprene.**Eye Protection:** Chemical safety goggles to prevent eye contact.**Additional Protective Equipment:** Rubber boots, coat and pants; safety shower and an eye wash facility should be available.**Ventilation:** Not applicable.**IX. PHYSICAL AND CHEMICAL PROPERTIES****Flashpoint and method of determination:** Not applicable.**Flammable limits (% in air):** LOWER: Not applicable. UPPER: Not applicable.**Auto-ignition temp.:** Not applicable.**Physical State:** Liquid**Vapour density:** Not determined.

MATERIAL SAFETY DATA SHEET

Page No. 2 of 3

Coefficient of n-octanol/water distribution: Not determined.

Odour: Slight surfactant odour.

Specific Gravity: 1.35

Vapour Pressure: Not determined.

Evaporation Rate: Not determined.

Solubility in water: Complete

Boiling Point: 110°C

Freezing Point: -8°C

pH: 12.3 (1% solution)

Colour: Slightly yellow.

Odour threshold: Not applicable.

X. STABILITY AND REACTIVITY

Chemical stability: Stable under normal conditions. Hazardous polymerization will not occur.

Incompatible substances: Avoid strong oxidizing and reducing agents. Will react with solid or liquid acids such as sulphuric, phosphoric and sulfamic acids..

Conditions of reactivity: Avoid contamination with reactive substances. Do not mix with acidic materials.

Hazardous decomposition products: None

XI. TOXICOLOGICAL INFORMATION

Probable route of exposure: Splashes on skin and in eyes.

Exposure Limits: LD₅₀ (Calculated) 1700 mg/kg

Effect of acute and chronic exposure to product: Causes severe burns.

Irritating: No

Sensitisation to product: Yes

Carcinogenicity: Data not available.

Reproductive toxicity: Data not available.

Teratotoxicity: Data not available.

Mutagenicity: Data not available.

Name of toxicologically synergistic product(s): Data not available.

XII. ECOLOGICAL CONSIDERATIONS

Environmental toxicity information: Product conforms to the regulations regarding the biodegradability of the surfactants. (Directive 2004/648/EC). Strongly alkaline, pH value of water can harm water-organisms.

XIII. DISPOSAL CONSIDERATIONS

For the product: EC disposal code №:

20 01 29 (detergent containing dangerous substances).

For the packaging: EC disposal code №:

15 01 02 (plastic packaging). Can be recycled.

XIV. TRANSPORT INFORMATION

CARRIAGE BY ROAD (CROSSING BORDERS) ADR/RID:

ADR/RID Class:	8	C5
Hazard Identification Number:	80	
UN Number:	3266	
Packing group:	III	
Label:	8	
UN proper shipping name:	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Potassium Hydroxide)	

TRANSPORT BY SEA IMDG:

IMDG Class:	8
UN Number:	3266
Packing group:	III
EMS Number:	F-A, S-B
Label:	8
Marine pollutant:	No
UN proper shipping name:	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Potassium Hydroxide)

MATERIAL SAFETY DATA SHEET

Page No. 3 of 3

TRANSPORT BY AIR ICAO-TI and IATA-DGR:

ICAO/IATA Class: 8
UN Number: 3266
Packing group: III
Label: 8
UN proper shipping name: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Potassium Hydroxide)

XV. REGULATORY INFORMATION

Inventory Status: TSCA (USA), CEPA (Canada, DSL), EINECS (EU), China, TCCL (Korea, KECI), RA 6969 (Philippines, PICCS), NICNAS (Australia, AICS), IEC (Japan).

WHMIS CLASSIFICATION: Class D, 2b, Class E

Danger symbol: C, corrosive



Risk phrases: 34 Causes burns.

43 May cause sensitization by skin contact.

Safety phrases: 26 In case of contact with eyes rinse immediately with plenty of water and seek medical advice.

36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

XVI. OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian *Controlled Products Regulations* and the MSDS contains all the information required by the Canadian *Controlled Products Regulations* and national legislation.

This Material Safety Data Sheet is in conformance with Directive 2001/58/EC and national legislation.

R-Sentences of ingredients in paragraph II:

35 Causes severe burns.

43 May cause sensitization by skin contact.

Replaces: M.S.D. dated: May 18, 2004

Version: 8

[Français](#)

[Bahasa Malayu](#)

[Español](#)

[Nederlands](#)

[Bahasa Indonesia](#)

[Deutsch](#)