



MATERIAL SAFETY DATA SHEET

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SECTION 1 - COMPANY INFORMATION

RAM

Product usage: Heavy duty liquid cleaner
Product type: Water based non-flammable alkaline-organic-inorganic chemical blend
WHMIS Class: CLASS E (Corrosive material); CLASS D-2B (Eye & Skin Irritant)
Hazard Rating: HEALTH: (2) Moderate; FIRE (0) Insignificant; REACTIVITY: (0) Insignificant
TDG: Not Regulated

Supplier name and address:
Corporate Chemicals & Equipment
7 Neilson Street
St. Catharines, ON L2M 5V9
(905) 682-8888

Manufacturer's name and address
Refer to Supplier



Emergency Telephone# CANUTEC (613) 996-6666

SECTION 2 - HAZARDOUS INGREDIENTS

INGREDIENT	%	CAS#	TOXICITY
2-Butoxyethanol	< 5	111-76-2	LD50 470 mg/kg oral, rat. LD50 220 mg/kg (dermal rbt)
Ethylene Glycol Monobutyl Ether			TLV 25 ppm skin, LC50 450 ppm/4hr rat
Sodium Metasilicate	< 5	6334-92-0	Alkaline salt, corrosive, eye & skin irritant
Organic Detergents	< 10		Eye irritant

SECTION 3 - HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

Routes of entry: Inhalation, ingestion, skin and eye contact.

Signs and symptoms of short-term (acute) exposure:

Inhalation: Inhalation of mist or spray may cause irritation or burns. Exposures higher than the recommended limits over long periods of time may cause chronic irritation of the nose, throat and bronchial Passages.

Skin contact: Corrosive to skin. Blood cell hemolysis, narcosis and kidney may occur.

Eye contact: Contact can result in pain, redness and watering, with possible corneal damage if not promptly treated.

Ingestion: Harmful or fatal if swallowed. May burn mouth, throat and stomach.

Effects of long-term (chronic) exposure: Prolonged skin contact may cause dermatitis. Liver or kidney damage is possible.

Other important hazards: None.

SECTION 4 - FIRST AID MEASURES

- Skin:** Remove contaminated clothing immediately. Wash exposed areas with copious amounts of running water for a minimum of 20 minutes if irritation persists, repeat flushing. May be neutralized with sodium bicarbonate, epsom salts, or vinegar. Obtain medical attention.
- Eyes:** Flush with running water for 30 minutes lifting the upper and lower eyelids occasionally. Remove contact lenses. Get medical attention.
- Ingestion:** Do not induce vomiting. If victim is alert and not convulsing, give 1-2 glasses of water to dilute material. Immediately contact local poison control centre. Vomiting should be induced under the direction of a physician or a poison control centre. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomitus, rinse mouth and administer more water. Immediately transport victim to an emergency facility.
- Inhalation:** Move victim to fresh air. Give artificial respiration only if breathing has stopped. Give cardiopulmonary resuscitation (cpr) if there is no breathing and no pulse. Obtain medical attention immediately.



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SECTION 5 - FIRE FIGHTING MEASURES

Flash point:	Over 100 Deg. C.
Flammability:	Non-Flammable
Combustion products:	Oxides of carbon and nitrogen after drying
To Extinguish:	Not applicable
Other:	None

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions: Restrict access to area until completion of cleanup. Wear adequate personal protective equipment.
Environmental precautions: Avoid discharging spilled material into waterways, such as sewers, streams or lakes.
Spill response/Cleanup: Dike to contain material. Collect as much of the spilled material as possible in containers for possible reuse. Absorb the remaining material with sand, vermiculite or other absorbent material.
Prohibited materials: None known.

SECTION 7 - HANDLING AND STORAGE

As with all chemicals there are known and unknown effects on humans. Minimize exposure of all chemicals, including this product, to skin, respiratory system, and eyes.
Keep out of reach of children. Avoid contamination of food.
Wash thoroughly after handling. Store in cool dry area. Do not freeze.

SECTION 8 - EXPOSURE CONTROLS & PROTECTIVE EQUIPMENT

Ventilation:	Normal building ventilation is adequate.
Breathing Protection:	Suitable breathing mask or respirator if mists or vapours are present.
Skin Protection:	Rubber gloves, rubber boots, or barrier cream if contact is expected.
Eye Protection:	Safety glasses with side shields when there is potential for eye contact

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear purple liquid	Density (g/ml):	1.08
pH as is:	12 - 13	Freezing point:	0 Deg. C.
pH use dilution:	9 - 13	Boiling Point:	100 Deg. C.
Solubility in water:	Soluble in all proportions	Evaporation Rate:	Same as water.
Odour:	Sweet licorice	Viscosity:	As water.

SECTION 10 - REACTIVITY & STABILITY DATA

Product is stable. Do not mix with strong acids, alkalis; oxidizing and reducing agents. Do not mix with chlorine bleach. Hazardous polymerization will not occur

SECTION 11 - TOXICOLOGICAL INFORMATION

Effects of Acute Exposure to:

Skin:	May cause skin irritation, defatting, chapping, dermatitis.
Eyes:	Severe irritating and may cause corneal injury.
Ingestion:	Accidental ingestion may cause burning pain in mouth, esophagus and stomach due to alkaline nature of product.
Inhalation:	If misted, may cause irritation of mucous membranes, coughing and difficulty in breathing.
Other:	On chronic skin exposure, 2-butoxyethanol may be absorbed causing blood changes as listed for pure chemical. Alkaline nature of product limits tolerance of product to skin contact. Also, dilution of product minimizes hazard.



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SECTION 12 - ECOLOGICAL INFORMATION

Environmental effects: High pH (alkalinity) of material may be harmful to aquatic life.

SECTION 13 - WASTE DISPOSAL

Disposal method: Sanitary sewer or dry absorbent material. For large quantities, check with local environmental department, and government authorities.

SECTION 14 - TRANSPORTATION INFORMATION

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

Product AS SOLD

TDG Classification: Corrosive liquid basic inorganic N.O.S. , (Sodium hydroxide/sodium metasilicate) UN 3266 Class 8 PG III
Limited quantity if less than 5 litres per package.:

For transport in bulk or using IMDG regulations, see shipping documents for specific transportation information

SECTION 15 - REGULATORY INFORMATION

MSDS Prepared by: Technical Dept.

Telephone: (905) 682-8888

SECTION 16 - OTHER INFORMATION

References: Suppliers Material Safety Data Sheets.

Preparation Date: July 1/2011

NOTICE: The data and information presented herein are based upon tests, research and reports which are considered by us to be reliable and believed to be accurate. The data and information are presented without warranty, guarantee or liability on our part, and are presented to the customer for his own consideration, investigation and verification. If user requires independent information on ingredients in this or any other material, we recommend contact with Canadian Centre for Occupational Health and Safety (CCOHS) in Hamilton, Ontario (905 572-4400)