



# MATERIAL SAFETY DATA SHEET

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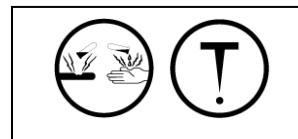
## SECTION 1 - COMPANY INFORMATION

### Blue Thunder

**Product usage:** Heavy duty liquid cleaner  
**Product type:** Water based non-flammable alkaline-organic-inorganic chemical blend  
**WHMIS Class:** E , D2B  
**Hazard Rating:** HEALTH: (2) Moderate; FIRE (0) Insignificant; REACTIVITY: (0) Insignificant  
**TDG Class:** 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.:

**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	4 -9	111-76-2	LD50 470 mg/kg oral, rat. LD50 220 mg/kg (dermal rbt) TLV 25 ppm skin, LC50 450 ppm/4hr rat
Sodium Hydroxide (Lye, Caustic)	1 - 5	1310-73-2	LD50(oral mice) 40 mg/kg; LV= 2 mg/kg; A 1 % solution in a rabbit's eye for 24 hrs. produced severe irritation. Corrosive.
Sodium Metasilicate	1 - 5	6834-92-0	LD50 (oral rat) 1153 mg/kg. Alkaline, corrosive, eye & skin irritant.
Organic Detergents	5-15		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 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 water running water for 30 minutes lifting the upper and lower eyelids occasionally. Remove contact lenses. Get medical attention.

**Ingestion:** Drink large quantities of milk or water, if possible. Do not induce vomiting. Other demulcent drinks may be helpful (e.g. raw egg whites, aluminum hydroxide gels). Avoid mineral oil and alcohol. Oxygen therapy and other measures against pulmonary edema, as indicated. Call a physician immediately.

**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.



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Obtain medical attention immediately.

## SECTION 5 - FIRE FIGHTING MEASURES

<b>Flash point:</b>	Over 120 Deg. C.
<b>Flammability:</b>	Non-Flammable
<b>Combustion products:</b>	Oxides of carbon after drying.
<b>To Extinguish:</b>	Not applicable
<b>Other:</b>	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. Store product in suitable labelled containers. Keep container closed when not in use. Rinse work area after use. Keep out of reach of children. Avoid contamination of food. Wash thoroughly after handling. Store in cool dry well ventilated area away from open flame and heat sources.

## SECTION 8 - EXPOSURE CONTROLS & PROTECTIVE EQUIPMENT

<b>Ventilation:</b>	Provide adequate building ventilation.
<b>Breathing Protection:</b>	Suitable breathing mask if mists or vapours are present.
<b>Skin Protection:</b>	Optional: rubber gloves, rubber boots, barrier cream.
<b>Eye Protection:</b>	Safety glasses with side shields when there is potential for eye contact. Contact lenses should not be worn.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Aqua Blue	<b>Density (g/ml):</b>	1.08
<b>pH as is:</b>	12.5 - 13.2	<b>Freezing point:</b>	0 Deg. C.
<b>pH use dilution:</b>	11 - 13.2	<b>Boiling Point:</b>	100 Deg. C.
<b>Solubility in water:</b>	Soluble in all proportions	<b>Evaporation Rate:</b>	Same as water.
<b>Odour:</b>	None	<b>Viscosity:</b>	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. Do not allow to contact non-ferrous metals for extended periods of time. Hazardous polymerization will not occur.

## SECTION 11 - TOXICOLOGICAL INFORMATION

### Effects of Acute Exposure to:

<b>Skin:</b>	May cause skin irritation, defatting, chapping, dermatitis.
<b>Eyes:</b>	Severe irritating and may cause corneal injury.
<b>Ingestion:</b>	Accidental ingestion may cause burning pain in mouth, esophagus and stomach due to alkaline nature of product.
<b>Inhalation:</b>	If misted, may cause irritation of mucous membranes, coughing and difficulty in breathing.
<b>Other:</b>	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 absorbant 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)