



# GLENGARRY CHEMICALS LTD.

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## MATERIAL SAFETY DATA SHEET

### Emergency Telephone Numbers:

CANUTEC: 1-613-996-6666  
POISON CONTROL CENTRE: 1-800-268-9017

W.H.M.I.S. CLASSIFICATION: E

### SECTION I PRODUCT INFORMATION

Product Name : BWT-3000  
Product Use : Steam Boiler Alkalinity Builder  
Chemical Family : Alkali  
Chemical Formula : NaOH

### SECTION II HAZARDOUS INGREDIENTS

COMPONENTS	Wt / Wt %	LD <sub>50</sub> Oral-rat	HAZARD	CAS NO.
Sodium Hydroxide	30 to 70	N/Av	Corrosive	1310-73-2

### SECTION III PHYSICAL STATE

Appearance and Physical State : Clear and colourless syrupy liquid  
Odour : None Boiling Point (°C) : ~ 140  
Specific Gravity (water = 1) : 1.50 - 1.55 Freezing Point (°C) : 14  
Vapour Pressure (mm Hg) : Not Available % Volatile ( by weight ) : 30 - 70 (as water)  
Vapour Density (air = 1) : Not Applicable pH Product :  
Evaporation Rate : Not Applicable pH 1% Solution : >13  
Solubility in Water : Miscible Coefficient of Water/Oil Distribution : Not Applicable

### SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flammability: Non-Flammable  
Upper Explosive Limit : Not Applicable Lower Explosive Limit : Not Applicable  
Flash Point : Not Applicable  
Means of Extinction: Appropriate for surrounding materials.  
Special Procedures : Self contained breathing apparatus and protective clothing should be worn in fighting all fires involving chemicals.

### SECTION V HEALTH HAZARD DATA

#### A - EFFECTS OF ACUTE OVEREXPOSURE

**EYES:** Extremely corrosive. Causes severe irritation upon contact. Can cause permanent damage even blindness only after a few seconds of contact.  
**SKIN:** Extremely Corrosive. Short contact may cause marked irritation or chemical burn. Contact may not cause immediate pain but does cause immediate damage  
**INHALATION:** Product is not volatile, however mists are extremely corrosive to the nose, throat and mucus membranes. May cause burns to the respiratory tract.  
**INGESTION:** May cause severe burning and pain in the mouth, throat and abdomen. Vomiting, diarrhea and perforation of the esophagus and stomach lining may occur.

#### B - EFFECTS OF CHRONIC OVEREXPOSURE

Corrosive effects on the skin and eyes may be delayed and damage may occur without the sensation or onset of pain. Strict adherence to first aid measures following any exposure is essential. Prolong and/or repeated exposure of dilute solutions on the skin often causes irritation, redness, pain and drying and cracking of the skin.

## SECTION VI EMERGENCY AND FIRST AID

- EYES:** Wash with copious amount of cold water for at least 20 minutes keeping eyelids open. If irritation persists, repeat flushing. Obtain medical attention immediately.
- SKIN:** Immediately wash the affected areas with plenty of water. If irritation, redness or burning sensation develops obtain medical advice.
- INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention immediately.
- INGESTION:** Do not attempt to give anything by mouth to an unconscious person. If person is alert and not convulsing rinse mouth out and give large quantities of water to dilute material and seek medical attention immediately. Do not induce vomiting.

## SECTION VII TOXICOLOGICAL DATA

- Exposure Limits:** Not Available.
- Carcinogenicity:** The ingredients of this product are not classified as carcinogens by ACGIH or IARC, not regulated as carcinogen by OSHA, and not listed as carcinogen by NTP.
- Reproductive Effects:** No information is available.
- Mutagenic Effects:** No information is available.
- Teratogenic Effects:** No information is available.
- Sensitization:** No information is available.
- Routes of Entry:** Ingestion, Inhalation, Skin and eye absorption.

## SECTION VIII SPILL OR LEAK PROCEDURES

### Steps To Be Taken In Case Material Is Spilled Or Released:

Wear protective equipment. Contain the spill and absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container for disposal.

### Disposal Procedures:

Follow your local, provincial, and federal government chemical disposal regulations.

## SECTION IX PROTECTION INFORMATION

- Engineering Controls:** Local Exhaust.
- Respiratory Protection:** NIOSH/MSHA approved mist respirator, if misting conditions exists.
- Protective Clothing:** Chemical resistant Gloves, apron or impervious protective clothing.
- Eye Protection:** Chemical safety goggles, and face shield.
- Other Protective Equipment:** Eye Wash Station and Safety Shower.

## SECTION X REACTIVITY DATA

- Stability:** Stable.
- Conditions to Avoid:** Contact with incompatibles, strong acids and reactive metals.
- Hazardous Polymerization:** Will Not Occur.
- Incompatibility to Other Substances:** Strong acids, organic materials, reactive metals such as aluminium, tin and zinc, nitromethane, nitro compounds and halogenated organics.
- Hazardous Combustion Products:** Thermal decomposition products are toxic and may include oxide of sodium.

## SECTION XI HANDLING AND STORAGE PRECAUTIONS

Wear appropriate safety equipment when handling, and take all precautions to avoid personal contact. When mixing add this product to water in small amounts to avoid spattering and generation of excessive heat. Never add water to this product. Avoid breathing mists. Wash thoroughly after handling. Store in a cool dry place, keep containers closed when not in use.

## SECTION XII FURTHER INFORMATION

### TDG CLASSIFICATION:

**Shipping Name:** SODIUM HYDROXIDE SOLUTION  
**UN Number:** UN1824      **Class:** 8      **Packing Group:** II

### Preparation Information:

**Prepared By:** Regulatory Department  
**Review Date:** 1-Oct-14      **Preparation Date:** 1-Nov-02

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