

SECTION 1 : IDENTIFICATION

Product Name: GLENGARRY BWT-3000
Product Use: Steam Boiler Treatment

Supplier: Glengarry Solutions
Address: 33 Melford Drive, Unit 5,
 Scarborough, Ontario. M1B 2G6

Phone: 416-757-1333
Fax: 416-757-9793
Poison Control Centre: 1-800-268-9017

SECTION 2 : HAZARD IDENTIFICATION

GHS Classification:

- Category 1A: Skin Corrosion / Irritation.
- Category 1: Serious Eye Damage / Irritation.
- Category 1: Corrosive to Metals
- Category 4: Acute Toxicity, Oral.

Signal Word: **DANGER**

Pictogram:



Hazard Statements:

- H290: May be corrosive to metals.
- H302: Harmful if swallowed.
- H318: Causes serious eye damage.
- H314: Causes severe skin burns and eye damage.
- H335: May cause respiratory irritation.

Precautionary Statements:

- P234: Keep only in original container.
- P260: Do not breathe mist.
- P273: Avoid release to the environment.
- P264: Wash thoroughly after handling.
- P280: Wear protective gloves/protective clothing/face protection.

Response Statements:

- P301+P330+P331+P310 IF SWALLOWED: Rinse mouth. DO NOT INDUCE VOMITING. Immediately call a POISON CENTER/doctor.
- P303+P361+P353+P310 IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER/doctor.
- P304+P340+P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER/doctor.
- P305+P351+P338+P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
- P363: Wash contaminated clothing before reuse.

- Storage:** P405: Store locked up.
- Disposal:** P501: Dispose of container according to all applicable regulations.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS	CAS NO.	EC No.	CONCENTRATION (wt/wt %)
Sodium Hydroxide <i>Glengarry BWT-3000</i>	1310-73-2		30.0 - 70.0

Composition comments: Information for specific product ingredients as required by the WHMIS Regulations are listed. Refer to additional sections of this SDS for our assessment of the potential hazards of this formulation.

SECTION 4 : FIRST AID MEASURES

- EYES:** Wash with copious amounts of water for at least 20 minutes keeping eyelids open. If irritation persists, repeat flushing. Get immediate medical attention.
- SKIN:** Immediately wash the affected areas with plenty of water. If irritation persists, obtain medical attention.
- INHALATION:** Remove person to fresh air and keep comfortable for breathing. 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 1-2 glasses of water to dilute material and seek medical attention immediately.
DO NOT INDUCE VOMITING.

Most important symptoms and effects, both acute and delayed

Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation.

General Information

If exposed or concerned, get medical advice/attention. Ensure that medical personnel are aware of the materials involved and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

SECTION 5 : FIRE FIGHTING MEASURES

- Flammability:** Not flammable.
- Suitable Extinguishing Media:** Use extinguishing media suitable for surrounding materials.
- Specific Hazards Arising from the Chemical:** None known.
- Special Protective Equipment and Precautions for Fire-fighters:**
Self contained breathing apparatus and protective clothing should be worn in fighting all fires involving chemicals.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid contact with skin, eyes and inhalation of vapors.

Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, or confined areas. Do not flush into surface water or sanitary sewer system.

Methods and Materials for Containment and Cleaning Up:

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. Dispose of according to local, provincial and federal regulations.

SECTION 7 : HANDLING AND STORAGE

Precautions for Safe Handling:

Use normal good industrial hygiene and safety practices. Use recommended safety equipment when handling. Wash thoroughly after handling.

Conditions for Safe Storage:

Avoid storage at high temperatures and protect from freezing. Store away from incompatibles. Keep containers closed when not in use.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

COMPONENTS	CAS NO.	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium Hydroxide	1310-73-2	Ceiling: 2 mg/m ³	Ceiling: 2 mg/m ³	Ceiling: 2 mg/m ³

Remarks: Only those substances with limit values have been listed.

Legend

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

Glengarry BWT-3000

Appropriate Engineering Controls:

Ensure adequate ventilation, especially in confined areas.

Individual Protection Measures:

Eyes: Chemical safety goggles/faceshield.

Skin: Chemical resistant gloves and appropriate protective clothing.

Respiratory: Approved NIOSH respiratory protection if TLV/PEL is exceeded or if over exposure is likely.

Work Hygienic Practices: Facilities storing or using this material should be equipped with emergency eyewash and a safety shower. Good personal and industrial hygiene and safety practices should always be followed.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Syrupy Liquid.
Colour:	Clear and colourless.
Odour :	No information available.
Odour Threshold:	No information available.
pH:	>13.0 (1% Solution)
Specific Gravity (water = 1) :	1.50 - 1.55
Melting point/Freezing point:	-12 to 10 °C
Boiling point:	105 to 140 °C
Flammability:	Not flammable.
Upper Explosive Limit:	Not Applicable.
Lower Explosive Limit:	Not Applicable.
Flash Point:	Not Applicable.
Auto-ignition Temperature:	Not Applicable
Decomposition Temperature:	No information available.
Viscosity:	No information available.
Vapour Pressure (mm Hg) :	No information available.
Vapour Density (air = 1) :	No information available.
Evaporation Rate :	No information available.
Solubility in Water :	Miscible.
Partition Coefficient n-Octanol/Water:	No information available.

SECTION 10 : STABILITY AND REACTIVITY

Reactivity:	No data Available.
Chemical Stability:	Stable under normal conditions.
Possibility of Hazardous Reactions:	None known.
Conditions to Avoid:	Incompatible products. Excess heat.
Incompatible Materials:	Acids, Organic materials, Metals, Aluminium, Copper.
Hazardous Decomposition Products:	Sodium Oxide

SECTION 11 : TOXICOLOGICAL INFORMATION

Primary route of Exposure:	Eye contact, skin contact, ingestion and inhalation.
Skin corrosion/irritation:	May cause deep, penetrating ulcers of the skin. Causes severe burns with delayed tissue destruction. Causes redness and pain.
Serious eye damage/irritation:	Causes severe eye burns. May cause irreversible eye injury. Contact may cause ulceration of the conjunctiva and cornea. Eye damage may be delayed. Causes redness and pain.
Respiratory or skin sensitization:	No information available.
Germ cell mutagenicity:	No information 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 toxicity:	No information available.
STOT-single exposure:	No information available.

STOT-repeated exposure: No information available.

Aspiration hazard: No information available.

Component Acute Toxicity Information

COMPONENT	CAS No.	ORAL LD ₅₀	DERMAL LD ₅₀	INHALATION LC ₅₀
Sodium Hydroxide	1310-73-2	Not available	1350 mg/kg (Rabbit)	Not available

SECTION 12 : ECOLOGICAL INFORMATION

Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants. Large amounts will affect pH and harm aquatic organisms.

COMPONENT	CAS No.	Freshwater Algae	Freshwater Fish	Water Flea
Sodium Hydroxide	1310-73-2	Not available	LC ₅₀ : 45.4 mg/L 96h static (Oncorhynchus mykiss)	Not available

Toxicity: No information available.

Persistence and degradability: No information available.

Bioaccumulative potential: No information available.

Mobility in soil: No information available.

Other adverse effects: No information available.

SECTION 13 : DISPOSAL CONSIDERATIONS

Waste disposal of substance: Dispose of in accordance with national, state/provincial and regional regulations.

Container disposal: Dispose of in accordance with national, state/provincial and regional regulations.

SECTION 14 : TRANSPORT INFORMATION

T.D.G./D.O.T. Classification:

Shipping Name: SODIUM HYDROXIDE SOLUTION

UN Number: 1824 **Class:** 8 **Packing Group:** II

SECTION 15 : REGULATORY INFORMATION

WHMIS Classification:



E Corrosive material

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulation (HPR), Hazard Communication Rule (2012), Regulation (EC) No 1907/2006

SECTION 16 : OTHER INFORMATION

Preparation Information:

Latest Revision Date: 26-Apr-2019

Issue Date: 20-Feb-2018

Version No. 2.0

Supercedes: 20-Feb-2018

Revision Notes: This document has been updated to comply with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Prepared By: Regulatory Affairs.

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