

SECTION 1 : IDENTIFICATION

Product Name: GLENGARRY BWT-1000
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 1B: Skin Corrosion
- Category 1: Serious Eye Damage
- Category 1: Corrosive to Metals

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:

- P202: Do not handle until all safety precautions have been read and understood.
- P234: Keep only in original container.
- P260: Do not breathe mist.
- 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 / shower. 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 %)
Potassium Hydroxide	1310-58-3		1.0 - 10.0
Sodium Sulphite	7757-83-7		1.0 - 10.0

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, exposure to atmospheric oxygen will degrade this product.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

COMPONENTS	CAS NO.	ACGIH TLV	OSHA PEL	NIOSH IDLH
Potassium Hydroxide	1310-58-3	Ceiling: 2 mg/m ³	(Vacated) 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

NIOSH IDLH - The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

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:	Liquid.
Colour:	Clear brown.
Odour :	Mild characteristic Odour.
Odour Threshold:	No information available.
pH:	12.0 - 13.0
Specific Gravity (water = 1) :	1.18 - 1.22
Melting point/Freezing point:	~0 °C
Boiling point:	~100°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:	Reacts with acids, oxidizers and organic materials.
Chemical Stability:	Stable under normal conditions.
Possibility of Hazardous Reactions:	None known.
Conditions to Avoid:	Contact with organics, strong acids and reactive materials. Exposure to air.
Incompatible Materials:	Do not mix with strong acids or oxidizers.
Hazardous Decomposition Products:	Sulphur dioxide, oxides of potassium, oxides of sodium and carbon (CO, CO ₂).

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:	Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.
Germ cell mutagenicity:	No information available.
Carcinogenicity:	No information available.
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
Potassium Hydroxide	1310-58-3	Not available	273 mg/kg (Dermal-Rabbit)	Not Determined
Sodium Sulphite	7757-83-7	2610 mg/kg (Rat-oral)	>2000 mg/kg (Dermal-Rat)	Not Determined

SECTION 12 : ECOLOGICAL INFORMATION

COMPONENT	CAS No.	Freshwater Algae	Freshwater Fish	Water Flea
Potassium Hydroxide	1310-58-3	Not available	LC ₅₀ : 86 mg/L 96h static (Gambusia affinis)	Not available
Sodium Sulphite	7757-83-7	Not available	LC ₅₀ : 220-460 mg/L 96h static (Leuciscus idus)	LC ₅₀ : 330 mg/L, 24h (Psammocchinus miliaris)

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: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
(Potassium Hydroxide Solution)

UN Number: 3266 **Class:** 8 **Packing Group:** III

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. 1.01

Supercedes:

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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