



# 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: Not WHMIS Controlled, Regulated by Pest Controlled Product Act

### SECTION I PRODUCT INFORMATION

Product Name : Glengarry MB-3000  
Product Use : Microbiocide  
Chemical Family : isothiazoline  
Chemical Formula : Mixture

### SECTION II HAZARDOUS INGREDIENTS

COMPONENTS	Wt / Wt %	LD <sub>50</sub> Oral-rat	HAZARD	CAS NO.
5-Chloro-2-methyl-4-isothiazolin-3-one	1 to 10	Not Available	Corrosive	26172-55-4
2-Methyl-4-isothiazolin-3-one	0.1 to 1.0	Not Available	Corrosive	2682-20-4
Magnesium Nitrate	0.1 to 1.0	Not Available	Toxic	10377-60-3

### SECTION III PHYSICAL STATE

Appearance and Physical State : Light green liquid  
Odour : strong aromatic Boiling Point (°C) : ~ 100C  
Specific Gravity (water = 1) : 1.02 - 1.04 Freezing Point (°C) : - 3C  
Vapour Pressure (mm Hg) : 0.01 mm Hg (@20C) % Volatile ( by weight) : > 60 (as Water)  
Vapour Density (air = 1) : Not Available pH Product : 1.7 - 3.7  
Evaporation Rate : Not Available pH 1% Solution :  
Solubility in Water : Completely soluble Coefficient of Water/Oil Distribution : Not Available

### SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flammability: Liquid can burn above flash point  
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:** Corrosive. Very hazardous in case of eye contact. Effects may vary depending on the length of exposure, solution concentration and first aid measures.  
**SKIN:** Corrosive to the skin. Sensitizer. Effects may vary depending on the length of exposure, solution concentration and first aid measures.  
**INHALATION:** May cause irritation or corrosion of mucous membranes and lungs. Do not breathe spray mist of the undiluted product. Effects will depend upon solution strength and length of time of exposure.  
**INGESTION:** May be harmful if swallowed.

#### B - EFFECTS OF CHRONIC OVEREXPOSURE

Repeated dermal exposure may cause allergic reactions.

## SECTION VI EMERGENCY AND FIRST AID

<b>EYES:</b>	Immediately flush the contaminated eye(s) with lukewarm gently flowing water for at least 20 to 30 minutes, while holding the eyelid(s) open. Neutral saline solution may be used as soon as it is available. DO NOT INTERRUPT FLUSHING. If necessary keep emergency vehicle waiting. If irritation persists, repeat flushing. Quickly transport victim to an emergency care facility.
<b>SKIN:</b>	As quickly as possible, flush with lukewarm gently flowing water for at least 20 to 30 minutes or until chemical is removed. Under running water, remove contaminated clothes, shoes and leather goods. If irritation persists, repeat flushing. Obtain medical advice immediately. Completely decontaminate clothing. Discard contaminated shoes, belts, and other articles made of leather.
<b>INHALATION:</b>	Use proper respiratory protection to immediately move exposed individuals to fresh air. If breathing is difficult, oxygen may be beneficial if administered by trained personnel. If breathing has stopped, trained personnel should begin artificial respiration or if the heart has stopped, cardiopulmonary resuscitation immediately. Avoid mouth to mouth contact by using mouth guard or shields. Immediately transport victim to an emergency care facility.
<b>INGESTION:</b>	Never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Have victim rinse mouth thoroughly with water. DO NOT INDUCE VOMITING. Have victim drink 250 to 300 mls of water to dilute material in stomach. If milk is available, it may be administered after the water is given. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Repeat administration of water. If breathing is difficult oxygen may be beneficial if administered by trained personnel. Quickly transport victim to an emergency care facility.

## SECTION VII TOXICOLOGICAL DATA

<b>Exposure Limits:</b>	Not Available.
<b>Carcinogenicity:</b>	Not listed in any of OSHA Standards Section 1910.1200 sources as carcinogenic.
<b>Reproductive Effects:</b>	Animal tests for birth defects were negative.
<b>Mutagenic Effects:</b>	Non-mutagenic Active ingredient
<b>Teratogenic Effects:</b>	Did not show teratogenic effects in animal experiments.
<b>Sensitization:</b>	Strong sensitizer.
<b>Routes of Entry:</b>	Ingestion, Inhalation, Skin and eye absorption.

## SECTION VIII SPILL OR LEAK PROCEDURES

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

Wear a NIOSH approved (or equivalent) respirator and all protective equipment during spill clean-ups and deactivation of this material. WARNING: KEEP SPILLS AND CLEAN-UP RESIDUALS OUT OF MUNICIPAL SEWERS AND OPEN BODIES OF WATER. Adsorb the spill with spill pillows or inert solids such as clay or vermiculite, and transfer contaminated materials to suitable containers for disposal. Deactivate spill area with freshly prepared solution of 5% sodium bicarbonate and 5% sodium hypochlorite in water. Apply solution to the spill area at a ratio of 10 volumes deactivation solution per estimated volume of residual spill to deactivate any residual active ingredient. Let stand for 30 minutes. Flush the spill area with copious amounts of water to chemical sewer (if in accordance with local procedures, permits and regulations).

### Disposal Procedures:

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

## SECTION IX PROTECTION INFORMATION

<b>Engineering Controls:</b>	General mechanical ventilation system is adequate.
<b>Respiratory Protection:</b>	If misting can occur, a NIOSH approved respirator equipped with organic vapor/acid gas cartridge and a dust/mist filter is required.
<b>Protective Clothing:</b>	Chemical resistant Gloves, shoes, apron or impervious protective clothing.
<b>Eye Protection:</b>	Chemical safety goggles and face shield.
<b>Other Protective Equipment:</b>	Eye Wash Station and Safety Shower.

## SECTION X REACTIVITY DATA

<b>Stability:</b>	Stable under normal condition of use.
<b>Conditions to Avoid:</b>	Contact with incompatibles
<b>Hazardous Polymerization:</b>	Will Not Occur.
<b>Incompatibility to Other Substances:</b>	Strong acids, strong bases, strong oxidizers, reducing agents, amines and mercaptans.
<b>Hazardous Combustion Products:</b>	Thermal decomposition of product can produce toxic vapours of sulfur oxides, hydrogen chloride, and nitrogen oxides.

## SECTION XI HANDLING AND STORAGE PRECAUTIONS

Do not handle unless the safety precautions have been read and understood. Avoid skin and eye contact. Avoid inhalation of dust or vapours. Do not puncture, drag or slide containers. Wash hands before eating. Store in a dry well ventilated location. Protect from freezing. Keep containers tightly closed. Store away from incompatible materials and ignition sources. Do not store in containers made of steel.

## SECTION XII FURTHER INFORMATION

### TDG CLASSIFICATION:

**Shipping Name:** CORROSIVE LIQUIDS, ACIDIC, ORGANIC, N.O.S. (2-methyl-4-isothiazoline-3-one), (5-chloro-2-methyl-4-isothiazolin-3-one)

**UN Number:** UN 3265      **Class:** 8      **Packing Group:** II

### Preparation Information:

**Prepared By:** Regulatory Department

**Revision Date:** 27-Aug-12      **Preparation Date:** 14-Nov-07

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