



# 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 : Phosphoric Acid 75%  
Product Use : Corrosion Inhibitor  
Chemical Family : Inorganics  
Chemical Formula :  $H_3PO_4$

### SECTION II HAZARDOUS INGREDIENTS

COMPONENTS	Wt / Wt %	LD <sub>50</sub> Oral-rat	HAZARD	CAS NO.
Phosphoric Acid	60 to 100	1530 mg/Kg.	Corrosive	7664-38-2

### SECTION III PHYSICAL STATE

Appearance and Physical State : clear syrupy liquid  
Odour : None Boiling Point (°C) : 158°C  
Specific Gravity (water = 1) : 1.55 - 1.60 Freezing Point (°C) : Not Available  
Vapour Pressure (mm Hg) : 5.7 % Volatile ( by weight ) : Not Available  
Vapour Density (air = 1) : 3.4 pH Product :  
Evaporation Rate : Not Available pH 1% Solution : < 1.0  
Solubility in Water : Miscible Coefficient of Water/Oil Distribution : Not Available

### 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:** Corrosive. May cause eye burns, blindness, and irreversible damage to the eyes.  
**SKIN:** Corrosive. Will cause corrosive effects (burns or irreversible damage) to the skin.  
**INHALATION:** Product is not volatile, however mists may cause burns to the lungs, upper respiratory tract and nose. May cause irreversible damage.  
**INGESTION:** Corrosive. Swallowing may be fatal. May cause burns or irreversible damage to the mouth, throat and digestive tract.

#### B - EFFECTS OF CHRONIC OVEREXPOSURE

Frequent or prolonged contact may irritate the skin and cause a skin rash (dermatitis).

## 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:** Remove any contaminated clothing and wash affected area with plenty of soap and 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. Do not induce vomiting unless directed to do so by medical personnel. Seek medical attention immediately.

## SECTION VII TOXICOLOGICAL DATA

- Exposure Limits:** ACGIH TWA: 1 mg/m<sup>3</sup>, ACGIH STEL: 3 mg/m<sup>3</sup>.
- Carcinogenicity:** The ingredients of this product are not classified as carcinogens by ACGIH or IARC.
- 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 clothing and equipment. Dike and contain spill with inert material (sand, earth, etc.) And transfer liquid and solid separately to containers for recovery or disposal. Neutralize with lime, soda ash. Sweep or shovel material into waste container. Flush residue with water.

### Disposal Procedures:

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

## SECTION IX PROTECTION INFORMATION

- Engineering Controls:** Good general ventilation should be sufficient for most conditions.
- Respiratory Protection:** If misting conditions exists, use an NIOSH approved air-purifying respirator for acid gas.
- Protective Clothing:** Chemical resistant Gloves, apron or impervious protective clothing.
- Eye Protection:** Chemical safety goggles.
- Other Protective Equipment:** Eye Wash Station and Safety Shower.

## SECTION X REACTIVITY DATA

- Stability:** Stable.
- Conditions to Avoid:** Incompatible materials.
- Hazardous Polymerization:** Will Not Occur.
- Incompatibility to Other Substances:** Alkalies. Reactive metals. Phosphoric acid forms flammable gases with sulfides, mercaptans, cyanides and aldehydes. It also forms toxic fumes with cyanides, sulfide, fluorides, organic peroxides, and halogenated organics. Mixtures with nitromethane are explosive.
- Hazardous Combustion Products:** Phosphine. Oxides of phosphorus.

## SECTION XI HANDLING AND STORAGE PRECAUTIONS

Corrosive material. Use appropriate personal Protective equipment. Use with adequate ventilation. Handle in accordance with good industrial hygiene and safety practices. Keep containers closed when not in use. Keep from freezing. Store away from bases. Store in a cool area, away from incompatible materials. Store in a cool, dry place. Keep Containers closed to prevent moisture absorption and/or contamination.

## SECTION XII FURTHER INFORMATION

### TDG CLASSIFICATION:

**Shipping Name:** PHOSPHORIC ACID, LIQUID  
**UN Number:** UN 1805      **Class:** 8      **Packing Group:** III

### Preparation Information:

**Prepared By:** Regulatory Department  
**Revision Date:** 27-Mar-15      **Preparation Date:** 2-Nov-12

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