

SAFETY DATA SHEET

SECTION 1 : IDENTIFICATION

Product Name: PHOSPHORIC ACID 75%
Product Use: Acid Cleaner and pH Adjustment

Supplier: Glengarry Solutions
Address: 33 Melford Drive, Unit 6,
Scarborough, Ontario. M1B 2G6
Phone: 416-737-1183
Fax: 416-737-9793
POISON CONTROL CENTRE: 1-800-268-9017

SECTION 2 : HAZARD IDENTIFICATION

GHS Classification:

- Category 1: Corrosive to metals.
- Category 5: Acute toxicity, Dermal.
- Category 1B: Skin corrosion/irritation.
- Category 1: Serious eye damage/eye irritation.

Signal Word: **DANGER**

Pictogram:



Hazard Statements:

- H290: May be corrosive to metals.
- H313: May be harmful in contact with skin.
- H314: Causes severe skin burns and eye damage.

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. 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
Phosphoric acid	7664-38-2	231-633-2	60 to 100

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.

SECTION 5 : FIRE FIGHTING MEASURES

- Flammability:** Not flammable or combustible.
- 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:**
Do not handle until all safety precautions have been read and understood. 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. Store locked up.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

COMPONENTS	CAS NO.	ACGIH TLV	OSHA PEL	NIOSH IDLH
Phosphoric acid	7664-38-2	TWA: 1 mg/m ³ STEL: 3 mg/m ³	TWA: 1 mg/m ³ (Vacated) STEL: 3 mg/m ³ (Vacated).	IDLH: 1000 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 hygiene practices should always be followed.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid.
Colour:	Clear, Viscous.
Odour :	Odourless.
Odour Threshold:	No information available.
pH:	< 1
Specific Gravity (water = 1) :	1.55 - 1.60
Melting point/Freezing point:	- 17.5 C
Boiling point:	135°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
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Reactivity:	Reacts with alkali and in contact with metals may evolve hydrogen gas.
Chemical Stability:	Stable under normal conditions.
Possibility of Hazardous Reactions:	Contact with sodium hypochlorite (or other hypochlorites) releases chlorine gas. Contact with aluminum or other reactive metals may release hydrogen gas.
Conditions to Avoid:	Contact with incompatible materials
Incompatible Materials:	Strong oxidizing agents, Metals, Bases, Alcohols, Amines, halogenated agents. Acidic solution will release chlorine when mixed with bleach.
Hazardous Decomposition Products:	Thermal decomposition products are toxic and may include oxides of phosphorus and other acid fumes.

SECTION 11 : TOXICOLOGICAL INFORMATION

Component Acute Toxicity Information

COMPONENT	CAS No.	ORAL LD ₅₀	DERMAL LD ₅₀	INHALATION LC ₅₀
Phosphoric acid	7664-38-2	1530 mg/Kg	2740 mg/Kg (Rabbit)	850 mg/m ³ (Rat) 1 h

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.

SECTION 12 : ECOLOGICAL INFORMATION

Ecotoxicity: Do not empty into drains. Large amounts will affect pH and harm aquatic organisms.

COMPONENT	CAS No.	Freshwater Algae	Freshwater Fish	Water Flea
Phosphoric acid	7664-38-2	Not Available	LC ₅₀ : 138 mg/L, 96h (Mosquitofish)	EC ₅₀ : > 100 mg/L (48 hours)

Persistence and degradability: Miscible with water. Persistence is unlikely based on information available.

Bioaccumulative potential: Does not bioaccumulate.

Mobility in soil: Will likely be mobile in the environment due to its water solubility

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: PHOSPHORIC ACID, SOLUTION

UN Number: 1805

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: 28-Mar-2018

Issue Date: 28-Mar-2018

Version No. 1.0

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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