

SECTION 1 : IDENTIFICATION

Product Name: COLLOID 40P
Product Use: Steam Boiler Dispersant

Supplier: Glengarry Solutions	Phone: 416-757-1333
Address: 33 Melford Drive, Unit 5, Scarborough, Ontario. M1B 2G6	Fax: 416-757-9793
	Poison Control Centre: 1-800-268-9017

SECTION 2 : HAZARD IDENTIFICATION**GHS Classification:**

Category 2: Eye irritation
Category 5: Acute oral toxicity

Signal Word: **Warning**

Pictogram:

**Hazard Statements:**

H303: May be harmful if swallowed.
H320: Causes eye irritation.

Precautionary Statements:

P202: Do not handle until all safety precautions have been read and understood.
P234: Keep only in original container.
P280: Wear protective gloves/protective clothing/face protection.
P264: Wash thoroughly after handling.

Response Statements:

P301+330+331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P352	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304+P340+P310	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
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.
P332+313	If skin irritation occurs, get medical advice/attention.
P337+313	If eye irritation persists, get medical advice/attention.
P314:	Get medical advice/attention if you feel unwell.
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)
1-Hydroxy Ethylidene 1,1-diphosphonic Acid	2809-21-4		1.0 to 10.0
Potassium hydroxide	1310-58-3		1.0 to 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 amount of water for at least 20 minutes keeping eyelids open. Get medical advice if irritation develops.
- SKIN:** Not expected to require first aid measures. Wash exposed area with soap and water. Get medical advice if irritation develops.
- INHALATION:** Move person to fresh air; if effects occur, consult a physician.
- 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

Not determined or not available.

Indication of any immediate medical attention and special treatment needed

No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

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, basements 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
Potassium Hydroxide <i>Colloid 40P</i>	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: Safety glasses.

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 and brown Liquid.
Odour :	Mild characteristic Odour.
Odour Threshold:	No information available.
pH:	9.0 - 10.0
Specific Gravity (water = 1) :	1.04 - 1.06
Melting point/Freezing point:	~ 0°C
Boiling point:	~ 100°C
Flammability (solid,gas):	Not Applicable.
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 :	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:	Material is non reactive under normal conditions.
Chemical Stability:	Material is stable under normal conditions.
Possibility of Hazardous Reactions:	Hazardous polymerization does not occur.
Conditions to Avoid:	Contact with incompatible materials. Excess heat.
Incompatible Materials:	Strong acids. Strong oxidizing agents.
Hazardous Decomposition Products:	Thermal decomposition products are toxic and may include phosphines, CO and oxides of sodium.

SECTION 11 : TOXICOLOGICAL INFORMATION

Primary Route of Exposure:	Eye contact, skin contact, ingestion and inhalation.
Skin Corrosion/Irritation:	May cause slight skin irritation.
Serious eye damage/irritation:	May cause slight temporary eye irritation.
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
1-Hydroxyethylidene 1,1-diphosphonic Acid	2809-21-4	> 2000 mg/Kg (rat)	>10,000 mg/Kg (rabbit)	Not available
Potassium Hydroxide	1310-58-3	333 mg/Kg (rat)	273 mg/Kg (rabbit)	Not available

SECTION 12 : ECOLOGICAL INFORMATION

COMPONENT	CAS No.	Freshwater Algae	Freshwater Fish	Water Flea
1-Hydroxyethylidene 1,1-diphosphonic Acid	2809-21-4	EC ₅₀ : 3.0 mg/L, 96h	LC ₅₀ : 200 mg/L 72h (Oncorhynchus mykis)	EC ₅₀ : >527 mg/L, 48h (daphnia magna)
Potassium Hydroxide	1310-58-3	Not available	LC ₅₀ : 86 mg/L 96h static (Gambusia affinis)	Not available

Toxicity: No information available.
Persistence and degradability: Material is readily biodegradable.
Bioaccumulative potential: No information available.
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: Not Regulated
UN Number: Not Applicable **Class:** Not Applicable **Packing Group:** Not Applicable

SECTION 15 : REGULATORY INFORMATION

WHMIS Classification:
Not Controlled

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: 7-Apr-2020 **Issue Date:** 7-Apr-2020
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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