



Safety Data Sheet

Industrial Heat Exchange Cleaner 2

Section 1 Identification

Trade Name: Industrial Heat Exchange Cleaner 2
Product Identification: GLA-IHEC2
Synonyms: None

Date Prepared: 08/30/2016
CAS No: 7664-38-2

Product Use Description:
Industrial Acidic Cleaner

Details of the supplier of the safety data sheet

G.L.A Water Inc.
17802 Rapids Road
HIRAM, OH 44234 US

Phone: (440) 834-8435
website: www.glawater.com

Emergency telephone number

Infotrac (800) 535-5053 (US & Canada)
(352) 323-3500

Section 2 Hazards Identification

GHS Classification: Corrosive to Metals Category 1
Skin Corrosion/Irritation Category 1

GHS Labels:



Corrosive

Signal Word: Danger

Hazard Statements:

H290 May be corrosive to metals
H314 Causes severe skin burns and eye damage

Precautionary Statements:

Prevention

P234 Keep only in original container.
P260 Do not breathe mist, vapours or spray.
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves, protective clothing and eye protection or face protection.

Response

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse SKIN with water.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or physician.
P363 Wash contaminated clothing before reuse.
P390 Absorb spillage to prevent material damage.



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Storage

P405 Store locked up.

Disposal

P501 Dispose of contents/container to an approved waste disposal plant.

Hazards Not Otherwise Classified (HNOC):

None.

Additional Information:

None.

Section 3 Composition

Chemical Name	Common Name/Synonym	CAS #	%
phosphoric acid		7664-38-2	35 - 40

Section 4 First Aid

General:

Move out of dangerous area. Perform first aid measures as indicated. Seek medical attention and show this safety data sheet to attending physician.

Inhalation:

Move to fresh air and keep at rest in a position comfortable for breathing. If breathing difficulty occurs or persists seek medical attention. If not breathing give artificial respiration and seek immediate medical attention.

Skin Contact:

Immediately flush exposed skin with water for at least 15 minutes while removing contaminated clothing and/or shoes. Thoroughly wash with soap and water. Seek medical attention if irritation develops or persists.

Eye Contact:

Immediately flush eyes with water for at least 15 minutes, lifting the upper and lower eyelids intermittently. Check for and remove any contact lenses if easy to do. Seek medical attention if irritation develops or persists.

Ingestion:

Rinse mouth with water. Do not induce vomiting. Seek medical attention if symptoms develop.

Most important symptoms and effects both acute and delayed:

No information available.

Indication of any immediate medical attention and special treatment needed:

No information available.

Section 5 Fire Fighting Measures

Suitable Extinguishing Media:

Use extinguishing media suitable for surrounding fire or source of fire. Use water spray to cool fire exposed containers.

Unsuitable Extinguishing Media:

No information available.

Specific Hazards Developing From the Chemical:

No information available.

Precautions for Firefighters:

No information available.

Firefighting Instructions:

No information available.

Protection During Firefighting:

Wear full protective gear and full face pressure demand self-contained breathing apparatus.

Other Information:

No additional information available.



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Section 6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Avoid direct contact with skin, eyes and clothing. Avoid inhalation of mist, vapor or dust. Wear appropriate personal protective equipment as outlined in Section 8 of this SDS.

Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Contain spilled material and prevent run-off onto ground or into water sources or sewers.

Methods and material for containment and clean up:

Neutralize with appropriate alkaline material if possible. Absorb on inert material and place in containers for disposal. Dispose of spilled/collected material in accordance with all federal, state and local regulations.

Section 7 Handling and Storage

Precautions for Safe Handling:

Avoid contact with skin and eyes. Avoid inhalation of mist, vapor and dust. Ensure adequate ventilation. Do not eat, drink or smoke while handling. Wear appropriate personal protective equipment as outlined in Section 8 of this SDS.

Conditions for Safe Storage, including Incompatibilities:

Store in original container. Keep container tightly closed. Store at room temperature (50-90°F) in a dry well-ventilated area.

Section 8 Exposure Controls/Personal Protection

Exposure Limits:

Ingredient	Data Source	Exposure Form	Exposure Value	Exposure Notes
phosphoric acid	ACGIH TLV	TWA	1 mg/m3	
	IDLH Level		1000 mg/m3	
	NIOSH	TWA	1 mg/m3	
	OSHA PEL	TWA	1 mg/m3	

Appropriate Engineering Controls:

Use local and/or general exhaust ventilation to maintain airborne concentrations below irritating levels or exposure limits. An eyewash and safety shower should be available in the work area.

Individual Protection Measures:

Eye/Face Protection:

Safety glasses or chemical goggles should be worn when handling this material.

Skin Protection:

Hand Protection:

Wear chemical resistant gloves when handling.

Other:

Wear chemical resistant apron when handling.

Respiratory Protection:

Wear respiratory protection if mist or vapor is produced, while using this material.

General Hygiene Considerations:

Follow good hygiene and safety practice. Wash hands and exposed skin before breaks and at the end of the work day. Do not eat, drink or smoke while handling this material. Do not wear contaminated or dirty clothing home from the work-site. Launder contaminated or dirty clothing before reuse.

Additional Information:

No additional information available.

Section 9 Physical and Chemical Properties

Appearance	Colorless Liquid	Initial boiling point	Not available.
Odor	Odorless	Flash point	Not available.
Odor threshold	Not available.	Evaporation rate	Not available.
pH	1.0	Flammability (solid, gas)	Not available.
Melting/freezing point	Not available.	Lower flammability limit	Not available.



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Upper flammability limit	Not available.
Lower explosive limit	Not available.
Upper explosive limit	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility in water	Complete
PC: n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Density	Not available.
Specific gravity	1.23

Section 10 Stability and Reactivity

Reactivity :	Not reactive under normal use conditions.
Chemical Stability :	Material is stable under normal handling and storage conditions.
Hazardous Reactions :	Hazardous polymerization will not occur under normal handling and storage.
Conditions to Avoid :	Avoid excessive heating, freezing and chemical contamination.
Decomposition Products:	No decomposition products are expected under normal storage and handling conditions.
Incompatible Materials:	Avoid contact with alkaline chemicals and unwanted contact with metals.

Section 11 Toxicological Information

Information on the likely routes of exposure:

- Inhalation:**
No information available.
- Skin Contact:**
Irritating and corrosive to skin.
- Eye Contact:**
No information available.
- Ingestion:**
No information available.

Symptoms related to the physical, chemical and toxicological characteristics:

No information available.

Delayed and chronic effects:

No information available.

Numerical measures of toxicity:

Components	Exposure	Species	Dose	Notes
phosphoric acid:				
Oral	LD50	Rat	1530 mg/kg	
Dermal	LD50	Rabbit	2740 mg/kg	

Toxicological Effects:

- Acute Toxicity:**
Mixture:
No information available.
- Skin Corrosion/Irritation:**
Mixture:
No information available.
- Serious Eye Damage/Irritation:**
Mixture:
No information available.
- Respiratory Sensitization:**



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Mixture:
No information available.

Skin Sensitization:

Mixture:
No information available.

Germ Cell Mutagenicity:

Mixture:
No information available.

Carcinogenicity:

Mixture:
This product is considered to be a potential carcinogen by:

- NTP: No
- OSHA: No
- IARC: No

Reproductive Toxicity:

Mixture:
This product is not expected to cause reproductive and developmental effects.

STOT-Single Exposure:

Mixture:
No information available.

STOT-Repeated Exposure:

Mixture:
No information available.

Aspiration Hazard:

Mixture:
This product is not an aspiration hazard.

Additional Information:

None.

Section 12 Ecological Information

Ecotoxicity:

No information available.

Numerical Measures of Ecotoxicity:

Components	Type	Species	Dose	Notes
phosphoric acid:				
Fish	LC50	Mosquito Fish	138 mg/l	96 hr

Persistence and Degradability:

Mixture:
No information available.

Bioaccumulative Potential:

Mixture:
No information available.

Mobility in Soil:

Mixture:
No information available.

Other Adverse Effects:

Mixture:
No information available.

Additional Information:

No information available.

Section 13 Disposal Considerations

Disposal Instructions:

Dispose of material in accordance with all federal, state and local regulations.

Contaminated Packaging:

Triple rinse container and offer for recycling. Dispose of container following all federal, state and local regulations.

Additional Information:



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No additional information available.

Section 14 Transport Information

DOT:

UN number: UN1805
UN proper shipping name: UN1805, Phosphoric Acid, Solution, 8, PGIII
Class: 8
Subsidiary risk: none
Label(s): 8
Packing group: III
Packaging exceptions: none

Section 15 Regulatory Information

Federal Regulations:

SARA 311/312 Hazard Categories:

Immediate (Acute) Health Hazard

SARA 302 Extremely Hazardous Substance:

Not listed.

SARA 304 Emergency Release Notification:

Not regulated.

SARA 311/312 Hazardous Chemical:

No

SARA 313 Toxic Release Inventory (TRI) Report:

Not regulated.

CERCLA Hazardous Substance List:

Not Listed.

Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA):

This chemical is not a pesticide product.

Clean Air Act Regulated Substances:

None.

Clean Water Act Regulated Substances:

None.

U.S. State Regulations:

None.

Canadian Regulations:

Canadian Ingredient Disclosure List Substances:

None listed.

WHMIS Classification:

phosphoric acid

Class E

Section 16 Other Information

HMIS Hazard ID:



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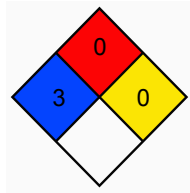
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HEALTH	3
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	C

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; *-Chronic Health Effect

NFPA Hazard ID:

Flammability:
Health:
Reactivity:
Special Hazard:



Hazard Rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

Disclaimer: The Manufacturer believes that the information contained in the Safety Data Sheet is accurate. The suggested procedures are based on experience as of the date of the publication. They are not necessarily all inclusive nor fully adequate in every circumstance. Also, the suggestions should not be confused with, nor followed in violation of applicable laws, regulations, rules or insurance requirements.

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