

SECTION 1: IDENTIFICATION

Product Name: EC-3319
SDS Number: 250613-01
Product Description: Water Treatment Chemical
Revision Date: 06/27/2025
Product Use: Water Treatment
Company: Apex Water + Process
12270 43rd Street NE
St. Michael MN 55376
Website: www.TeamApex.com
Contact: Non-Emergency 1-844-603-4077
Emergency Response: **For Hazardous Materials Incident, Spill, Leak, Fire, Exposure, or Accident Call: CHEMTREC at (800) 424-9300 CCN 1018609**

SECTION 2: HAZARD IDENTIFICATION

Hazard Classification: Skin Corrosion, Category 2
Serious Eye Irritation, Category 2
Acute Toxicity, Oral, Category 5

Signal Word(s): **WARNING**

Pictograms:



Hazard Statements:

Causes serious eye irritation.
Causes skin irritation.
Harmful if swallowed.

Precautionary Statements

Read SDS and label before use. Always wear appropriate PPE. Wash affected body parts thoroughly after handling. Do not eat, drink, or smoke when using this product. Keep out of reach of children. Do not breathe mist/spray.

Prevention:

Response:

IF SWALLOWED: Do not induce vomiting. Rinse mouth with water; IF ON SKIN OR HAIR: Wash with plenty of water; IF IN THE EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention if you feel unwell; IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention.

Storage:

Store locked up in a well ventilated area. See Section 7.

Disposal:

Dispose of contents and container in accordance with federal, state, and local regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	CHEMICAL NAME	% WT.
1310-58-3	Potassium Hydroxide	5 – 15
26099-09-2	Homopolymer Maleic Acid	1 – 5
37971-36-1	2-Phosphonobutane-1,2,4-tricarboxylic Acid	1 – 5
2809-21-4	(1-Hydroxyethylidene)-1,1-diphosphonic Acid	1 – 5
9003-01-4	Poly(acrylic) Acid	1 – 5
64665-57-2	Sodium Tolytriazole	1 – 5
10294-56-1	Phosphorus Acid	0.01 – 0.1
7664-38-2	Phosphoric Acid	0.01 – 0.1

Confidential business information has been removed without affecting the overall safety information on the safety data sheet.

SECTION 4: FIRST AID MEASURES

Eyes: Immediately flush eyes with plenty of low-pressure water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, get medical attention.

Skin Contact: Immediately flush skin with a large amount of soap and water. Remove contaminated clothing and shoes. If irritation persists, get medical attention. Wash contaminated clothing before reuse. Do not take clothes home to be laundered. Discard contaminated shoes, belts and other clothing made of leather.

Ingestion: Do NOT feed anything by mouth to an unconscious or convulsive victim. Rinse mouth. Dilute contents of stomach with a glass or two of water to help neutralize the alkali. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Immediately contact a physician or Poison Control Center.

Inhalation: Promptly remove to fresh air and keep at rest in a position comfortable for breathing. If signs of suffocation, irritation or other symptoms develop, Get medical attention immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Note to Physician: Based on the individual reactions of the patient, the physician's judgment should be used to control symptoms and clinical condition. Note: Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

SECTION 5: FIREFIGHTING MEASURES

Suitable Extinguishing Agents: Foam
Carbon Dioxide (CO₂)
ABC Powder
Water Mist

Special Procedures: Use self-contained breathing apparatus in confined areas; avoid breathing mist or spray. Full protective clothing and approved self-contained breathing apparatus required for firefighting personnel.

Specific Extinguishing Methods: User extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Use water spray to cool unopened containers.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations

Specific PPE for Firefighters: In the event of fire, wear a self-contained breathing apparatus. Use personal protective equipment. Exposure to decomposition products may be a hazard to health.

Hazardous Combustion Products: Combustion generates toxic fumes of carbon monoxide, carbon dioxide, and other miscellaneous unknown compounds.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Spill Response: Stop leaks. Clean up spill immediately. Build dikes as necessary to contain flow of large spills. Do not allow liquid to enter stream or waterways. For small spills, use an inert material to absorb. Place contaminated materials into containers and store in a safe place to await proper disposal. Wear adequate personal protective clothing and equipment. Provide adequate ventilation to spill area. Approved breathing apparatus may be necessary.

Spill Notification: Determine if federal, state, and/or local release notification is required.

SECTION 7: HANDLING AND STORAGE

Advice on Safe Handling: Keep container closed. Both open and handle containers with care. Store in a cool, well ventilated place away from incompatible materials. Do NOT pressurize, cut, heat, or weld containers. Empty product containers may contain product residue. Do NOT reuse empty containers without commercial cleaning or reconditioning. Avoid contact with eyes, skin and clothing. Avoid breathing mist or vapors. Wash thoroughly after handling. Keep container closed when not in use.

Conditions for Safe Storage: Keep container tightly closed when not in use. Store in a cool, dry, well-ventilated area. Store away from strong acids and oxidizing agents. Do not freeze. Keep away from heat, sparks, and open flame. This product has a shelf life of at least six months in unopened containers and when stored within the recommended temperature range.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters: For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL) or OSHA (PEL).

COMPONENT	TYPE	VALUE/NOTATION
Potassium Hydroxide 1310-58-3	PEL TLV	2 mg/m ³ (8-hr TWA)
Phosphoric Acid 7664-38-2	PEL TLV	1 mg/m ³ (8-hr TWA) 3 mg/m ³ (15-min STEL)

Engineering Controls: Provide local exhaust ventilation as needed to control misting. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

Personal Protective Equipment:



Body Protection: Wear appropriate impervious clothing. Have safety showers available where skin contact can occur.

Hand Protection: Wear gloves impervious to conditions of use including neoprene, nitrile, PVC, natural rubber, Viton and butyl

Eye Protection: Wear protective eyeglasses or chemical safety splash goggles, per OSHA eye-and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses. Have eye wash stations available where eye contact can occur.

Respiratory Protection: If exposure limits are exceeded, irritation or other symptoms are experienced, and/or it is possible to generate vapors or mists, a NIOSH approved or equivalent respirator is recommended. For large spills, entry into large tanks, vessels or enclosed small spaces with inadequate ventilations, a positive pressure, and self-contained breathing apparatus is recommended.

Environmental Exposure Controls: Do not allow the product to be released into the environment.

Consumer Exposure Controls: Do not eat, drink or smoke during use.

SECTION 9:

PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Brown Liquid
Odor:	Slight Solvent
Odor Threshold:	No data available
pH:	11.0 – 12.4
Melting Point/Freezing Point:	No data available
Boiling Point/Range:	> 212°F
Flash Point:	None
Evaporation Rate:	< 1.00
Flammability (solid, gas):	N/A
Upper/Lower Explosion Limit:	N/A
Vapor Pressure:	Same as water
Vapor Density:	No data available
Relative Density:	1.10 – 1.20 g/mL
Water Solubility:	100%
Partition Coefficient: n-octanol/water:	No data available
Auto-ignition Temperature:	No data available
Decomposition Temperature:	No data available
Viscosity:	No data available

NOTE: The physical data presented above are typical values and should not be construed as a specification.

SECTION 10:

STABILITY AND REACTIVITY

- Reactivity:** No data available
- Chemical Stability:** Product is stable under normal storage and use conditions.
- Possibility of Hazardous Reactions:** Products will not undergo polymerization.
- Conditions to Avoid:** Avoid extreme temperatures. Keep container closed when not in use. Do not freeze. Keep away from heat, sparks, and open flame. Strong acids, leather, wool, aluminum, zinc, tin and alloys, oxidizers or any type of reactive material.
- Incompatible Materials:** In the event of combustion, carbon monoxide, carbon dioxide, and other miscellaneous unknown compounds may form. Do not breathe smoke or fumes. Wear suitable protective equipment.
- Hazardous Decomposition Products:**

SECTION 11:

TOXICOLOGICAL INFORMATION

- Acute Toxicity:** LD50, Oral, Rat, > 2,000 mg/kg (estimated, mixture)
LC50, Dermal, 4 hr, Rat, > 5,000 mg/kg (estimated, mixture)
- Skin:** Irritation to skin.
- Eye:** Irritation to eyes and possible burning if materials are not immediately rinsed from eyes.
- Respiratory:** Might produce irritation to respiratory system.
- Ingestion:** Irritation to the intestinal tract. Do not induce vomiting. Swallowing large quantities may be hazardous.
- Chronic Effects:** See the first aid section for acute effects and long term effects would have to be derived from these immediate results. Specific chronic effects can be studied from the individual hazardous chemicals as indicated under Section 3 as the best guess without extensive laboratory studies
- Mutagenicity:** Not expected to cause birth defects or genetic mutation
- Carcinogenicity:** No components list as a carcinogen.
- Reproductive Toxicity:** No data available

SECTION 12:

ECOLOGICAL INFORMATION

- Aquatic Toxicity:** No data available
- Elimination (Persistence & Degradability):** No data available
- Bioaccumulative Potential:** No data available
- Mobility in Soil:** No data available
- Other Adverse Effects:** No data available

SECTION 13:

DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or properly disposed of. Discarded product, as sold, should not be considered a RCRA Hazardous Waste. Dispose of product in an approved chemical waste landfill or incinerate in accordance with applicable Federal, state and local regulations. Since the emptied container retains product residue, all labeled hazard precautions must be observed. Do NOT mix with other chemical wastes. Do not put solutions containing this product into sewer systems. Do not re-use empty containers.

SECTION 14:

TRANSPORT INFORMATION

UN Number: N/A
Description of the Goods: N/A
Class: N/A
Packing Group: N/A

This product is not DOT regulated when shipped by road or railway

SECTION 15:

REGULATORY INFORMATION

USA Classification: OSHA Hazard Communication Standard: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Inventory Status: All ingredients are listed as active on the TSCA inventory

DSCL (EEC): All ingredients are listed as active on the DSCL inventory

California Proposition 65: Not Listed

SARA 302: Not applicable

SARA 304: Not Listed

SARA 311: Acute Health Hazard

SARA 312: Acute Health Hazard

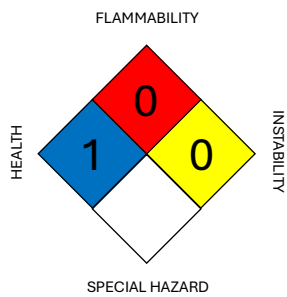
CERCLA: Listed: Potassium Hydroxide: RQ-1,000 lbs
Listed: Phosphoric Acid: RQ-5,000 lbs

Clean Water Act: Listed: Potassium Hydroxide
Listed: Phosphoric Acid

SECTION 16:

OTHER INFORMATION

NFPA:



Disclaimer:

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

HMIS III:

0 = Minimal
1 = Slight
2 = Moderate
3 = Serious
4 = Severe
* = Chronic

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0