



Safety Data Sheet

1. Product Identification

Product Name: Acidify
General Use: pH adjuster and water line cleaner
Supplied by: ClearView Enterprises LLC
451 Agnes Drive
Tontitown, AR 72770 Phone: (479) 361-1516
Emergency: CHEMTREC : (800) 424-9300

Revision date: March 29, 2018

2. Hazards Identification

Emergency Overview (OSHA Hazards): WARNING! Causes serious eye irritation. May cause respiratory irritation. May be corrosive to metals.

Hazard Classification (categories in parentheses): Irritation (eyes: 2A). STOT-SE, respiratory (3). Corrosive to metals (1). Not regulated by D.O.T.

HMIS Rating:
Health 1
Flammability 1
Reactivity 0
Personal protection ration to be supplied by user depending on use conditions.



CORROSIVE TO METALS

WARNING!

Hazard Statements:
H290 May be corrosive to metals
H319 Causes serious eye irritation
H335 May cause respiratory irritation

Precautionary Statements:
P261 Avoid breathing mists/vapors/spray
P264 Wash face, hands and any exposed skin thoroughly after handling
P280 Wear protective gloves/protective clothing/eye protection/face protection
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.
P302 + P352 + P362 + P333 + P313 IF ON SKIN: Wash with soap and water. Take off contaminated clothing and wash before reuse. If skin irritation or a rash occurs: Get medical advice/attention.

- P304 + P341 + P342 + P314 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Get medical advice/attention if you feel unwell.
- P305 + P351 + P338 + P313 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Get medical advice/attention.
- P501 Dispose of contents/ container to an approved waste disposal plant

CAUTION—Mixing product into dilution water pretreated with elevated concentrations of chlorine (such as from hypochlorite) may release chlorine odors and may have varied acute contact concerns other than those expressed herein.

NOTE—Information provided in this SDS represents characteristics and physical data of the concentrated material as supplied.

3. Composition

Chemical Family: Complexed citric acid solution

<u>Ingredient</u>	<u>Wt %</u>	<u>CAS Number</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>NIOSH REL</u>	<u>NIOSH IDLH</u>
Citric acid	10 – 20	77-92-9	N/E	N/E	N/E	N/E
Hydrochloric acid	10 – 20	7647-01-0	⁽¹⁾ 5 ppm	⁽¹⁾ 5 ppm	⁽¹⁾ 5 ppm	50 ppm
Phosphoric acid	1 – 5	7664-38-2	⁽²⁾ 1 mg/m ³	⁽³⁾ 3 mg/m ³	⁽²⁾ 1 mg/m ³	1000 mg/m ³
		⁽¹⁾ CEIL	⁽²⁾ TWA	⁽³⁾ STEL		

4. First Aid

Most important symptoms/effects: May cause serious eye irritation and mild skin irritation.

Inhalation: If breathing is difficult, remove individual to fresh air. If experiencing respiratory symptoms, get medical advice/attention.

Skin Contact: Remove contaminated clothing and foot wear. Wash thoroughly with soap and water, and do not reuse clothing until properly cleaned. If skin irritation or a rash develops, get medical advice/attention.

Eye Contact: Immediately flush eyes with plenty of cool, clean water for at least 15 minutes. Keep eyelids apart to maintain maximum contact with water. Remove contact lenses if present and easy to do. Do not allow the individual to rub their eyes. Get medical advice/attention.

Ingestion: If individual is conscious and able to swallow, quickly have the victim drink water to dilute. Do not give anything by mouth if individual is unconscious or is having convulsions. Call a physician or poison control center if you feel unwell.

5. Fire and Explosion Data

Flash Point: > 200° F (> 93° C) (tag closed cup)

Extinguishing Media: Water spray, foam, dry chemical or carbon dioxide. Use water spray to keep fire-exposed containers cool. If a spill or leak has ignited, use water spray to disperse the vapors. Water spray may be used to flush spills away from a fire. Do not flush into a storm drain or public sewer.

Special Procedures: Use self-contained breathing apparatus (SCBA) and proper personal protection clothing.

Unusual Hazards: There are no known unusual explosion or fire hazards associated with this material in its virgin form. However, in a fire-fighting scenario involving multiple chemicals, vapors can be released that might contain hydrochloric or phosphoric acid or oxides of chlorine, phosphorous, and carbon, and firefighters should attack and contain fire and any fumes accordingly.

6. Accidental Release Procedures

Personal precautions, protective equipment, and emergency procedures: Clear area of non-essential personnel. Use proper personal protective equipment (PPE).

Methods and materials for containment and cleaning up: Contain spill or leak and soak up as much material as possible. Put collected material into suitable containers for disposal. Close or cap valves and/or block or plug hole in leaking container and transfer to another container. Use appropriate containment to avoid runoff or release to sewer or waterways.

Recovered solids or liquids may be disposed of in a permitted waste management facility. Consult Federal, state or local disposal authorities for approved procedures. Any disposal must be in compliance with Federal, state, or local regulations.

7. Handling and Storage

Precautions for safe handling: Eye wash and safety showers are required in the immediate work area. Check with your State OSHA to determine the maximum distance for stations to be placed in regards to possible chemical exposure.

Conditions for safe storage, including any incompatibilities: The material is safe to store at ambient temperatures of between 35° and 120° F. Keep containers closed when not in use to prevent evaporative losses and possible contamination. Do not store concentrated product in any type of metal container. Avoid contact of concentrated product with concentrated chlorine including sodium hypochlorite.

8. Employee Protection and Control Measures

NOTE—No exposure standard exists for the formulated product.

Appropriate engineering controls: Normal ventilation has been found to be generally adequate. The end user must determine if the process or methods involved with the use of this material requires any additional ventilation.

Individual protection measures, such as personal protective equipment:

Eye Protection: Cup type, splash proof chemical goggles and full face shield in accordance with 29 CFR 1910.133 should be used when working with concentrated product. Appropriate eye protection must be worn instead of, or in conjunction with, contact lenses.

Skin Protection: As is a good practice with all materials, chemical resistant gloves, including rubber, butyl, or neoprene, should be worn when working with the product to avoid skin contact.

Respiratory Protection: Not normally required. In situations where a risk of inhalation occurs, such as where product is being misted, a respirator or air delivery system in accordance with 29 CFR 1910.134 (OSHA), 42 CFR 84 (NIOSH), and any other applicable regulations may be recommended.

Other: Not generally required under normal working conditions. The end user must determine if the process or methods involved required other personal protection clothing and/or equipment.

Work/Hygienic Practices: Do not consume food, drink, or smoke in areas where chemicals are being stored or handled. After working with chemicals wash hands thoroughly before handling food or beverages. Segregate and launder contaminated clothing before reuse.

9. Physical and Chemical Properties

Appearance: Clear, colorless liquid

Odor: Mild

Odor threshold: Moderate

pH: < 0.1

Melting point/freezing point: Not tested

Initial boiling point and range: > 240° F (> 116° C)

Flash Point: > 200° F (> 93° C) – Tag Closed Cup

Evaporation Rate: Less than water

Flammability (solid, gas): Not applicable

Upper/lower flammability or explosive limits: Not applicable

Vapor pressure: Not tested

Vapor Density: 1.2 (Air = 1)

Relative density: Specific Gravity (H₂O = 1): 1.09 – 1.13

Solubility (water): Soluble

Partition coefficient: n-octanol/water: Not tested

Auto-ignition temperature: Not applicable

Decomposition temperature: Not applicable

Viscosity: Not tested

Stability: Stable

Percent Volatiles: Not tested

10. Stability and Reactivity

Reactivity: Product is stable as delivered

Chemical Stability: Stable

Possibility of hazardous reactions: Heat may be generated in contact with strong bases or oxidizers.

Conditions to avoid (e.g., static discharge, shock, or vibration): Do not store or transfer neat product in metals, such as aluminum, yellow metals such as copper or brass, stainless steel, or other steel alloys.

Incompatible materials: Avoid contact with undiluted acetates, alcohols, aldehydes, amines, amides, ammonia, azo-compounds, caustics, carbamates, carbides, elevated levels of chlorine-containing compounds such as from hypochlorite, epoxides, esters,

fluorine, ketones, organic peroxides, oxidizers, phenolics, potassium permanganate, or sulfides.

Hazardous decomposition products: Oxides of carbon, chlorine, and phosphorous.

Polymerization: Hazardous polymerization may occur if exposed to aldehydes, epoxides and azo compounds.

11. Toxicological Information

Acute Toxicity Data: Not tested, but expected to be low toxicity based on ingredients

Irritant Data: Possible skin irritant; severe eye irritant

Primary Routes of Exposure (Acute):

Eye and Skin Exposure: May cause mild but reversible skin irritation with prolonged or repeated exposure to concentrated product. Concentrated product can cause severe irritation to eyes.

Inhalation: No long-term effects are expected, but excessive breathing of vapors may cause discomfort, dizziness, or mild irritation.

Ingestion: No long-term effects are expected with ingestion of small quantities, but swallowing concentrated product may lead to gastrointestinal irritation, diarrhea, or nausea.

Component information:

Hydrogen chloride (CAS 7647-01-0)

Oral (LD₅₀): 238 – 277 mg/kg (rat, female)

Dermal (LD₅₀): > 5,010 mg/kg (rabbit)

Inhalation (LD₅₀): 1.68 mg/l (rat, mist, 1 hour)

Phosphoric acid (CAS 7664-38-2)

Oral (LD₅₀): 1,530 mg/kg (rat)

Dermal (LD₅₀): 2,740 mg/kg (rabbit)

Inhalation (LD₅₀): > 850 mg/m³ (rat, 1 hour)

Primary Routes of Exposure (Chronic):

The effects from chronic exposure to this product have not been fully evaluated, but none have been observed.

Carcinogenicity: None of the components present in this material are listed on the IARC, NTP, or OSHA carcinogen lists.

Safety Precautions: As with all chemicals, avoid contact with eyes, skin, and clothing; wash thoroughly after handling, especially before eating, drinking, or smoking.

12. Ecological Information

Contact your PeroxyChem representative for assistance.

13. Disposal Considerations

Waste Disposal: All disposals of this material must be done in accordance with Federal, state and local regulations. Waste characterization and compliance with disposal regulations are the responsibilities of the waste generator.

14. Transportation Information

DOT Proper Shipping Name: Non-regulated

DOT/IMO Proper Shipping Name: Non-regulated

15. Regulatory Information

CERCLA (SARA): The following components of this product are listed as hazardous substances: Hydrochloric acid, RQ = 5,000 lbs, Phosphoric acid = 5,000 lbs.

EPCRA, Section 311: Health: Immediate Health (possible skin irritant, severe eye irritant).

Toxic Substances Control Act (TSCA) Status: All ingredients in this product appear on either the public TSCA inventory or the confidential TSCA inventory.

WHMIS: Corrosive to metals (1).

16. Other Information

Last Revision: June 10, 2016

Current Revision: June 13, 2016

Revision summary: Changes to Section 2 hazards identification and precautionary statements, Section 8 PPE, and additions to Section 11 toxicity information and Section 15 WHMIS information.

Prepared By: PeroxyChem LLC

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End of SDS