



This item is only shipped via ground.
Continental US and Canada only
ORM-D
Limited Quantity

Phone: 863 658 0235

1. Chemical Product And Company Information

Chemical Name	Trade Names	Formula	Molecular Weight	CAS#	UN#
Citric Acid 50%		C6H8O7	192.13	Anhydrous) 77-92-9	UN 1908

Uses: Consumer
Commodity

For the onsite generation of Chlorine Dioxide

Manufacturer/Distributor

KV Lab- Keavys Corner LLC 168 McCoy Drive, Lake Placid FL 33852
Phone: 863 658 0235

2. Composition and Product Information

Concentration by Weight

Citric Acid	Water
50%	50%
CAS# 77-92-9	CAS# 7732-18-5

3. Hazard Identification

Emergency Overview:

Citric Acid 50% Solution is a clear or yellow to brown liquid, with a faint sugary odor. Citric Acid is moderately to severely irritating to eyes, and moderately irritating to skin, and respiratory tract. Citric Acid Solution is not combustible. Use methods suitable for containing (diking) the solution in case of fire or spill. Firefighters should wear full protective equipment when fighting a fire involving this product.

Routes of Entry:

Inhalation, Skin Contact/absorption, Eye Contact or Ingestion

Symptoms of Exposure:

Inhalation: Aerosols and mists from solutions may cause mild to moderate irritation of the nose and throat. Overexposure could cause coughing, sneezing, and labored breathing.

Skin Contact/absorption: May cause moderate irritation of the skin. Citric Acid may cause allergic contact dermatitis with prolonged or repeated contact in sensitive individuals.

Eye Contact: This solution may cause severe irritation to the eyes, with symptoms that include redness, tearing, and pain. Concentrated solutions may be corrosive to the eyes and cause corneal ulcerations..

Ingestion: May cause mild gastrointestinal irritation, with symptoms including nausea, diarrhea, vomiting, and abdominal pain. Concentrated solutions may cause necrotic and ulcerative lesions on oral

mucous membranes. Chronic ingestion of high concentration Citric Acid can result in erosion of tooth enamel. Repeated ingestion of this solution can result in sensitization to the sun, causing sunburn.

4 . First Aid Measures

Skin Wash the affected area with soap and water. If irritation develops, get medical attention.

Eyes: Flush with water for a minimum of 15 minutes. If irritation persists seek medical attention.

Inhalation: If irritation or other symptoms are experienced, remove victim to fresh air. If symptoms persist get medical attention.

Ingestion: **DO NOT INDUCE VOMITING. DO NOT GIVE ANYTHING BY MOUTH TO AN**and giv **UNCONSCIOUS PERSON.** Otherwise rinse mouth with water , Get medical attention immediately

5. Fire Fighting Measures

Conditions Of Flammability: Does not burn but dried residue may burn if strong ignition source is present.

Means To Extinguish: Water, Foam, Dry Chemical, Carbon Dioxide

Hazardous Combustion Products: None, does not burn.

Flash Point & Method: Not applicable

Upper Flammability Limit: Not applicable

Lower Flammability Limit: Not applicable

Auto-Ignition Temperature: Not applicable

Mechanical Impact Sensitivity: Not applicable (water solution)

Static Discharge Sensitivity: Not applicable (water solution)

6. Accidental Release Measures

Leak Or Spill Procedures : Contain spills. Collect into clean compatible metal or high density polyethylene containers. Use lime or sodium bicarbonate to neutralize acid. Wash away residues with large amounts of water.

7. Handling Storage

Handling Procedures And Equipment : Use corrosion resistant tools and equipment. Avoid skin or clothing contact.

Storage: Store in a cool, dry area

KEEP AWAY FROM BASES.

8. Exposures Controls / Personal Protection

Protective Equipment: Chemical safety goggles. Butyl rubber or neoprene gloves. Dust/mist mask in dusty or misty locations. Wear waterproof or washable outer clothing. Remove and wash contaminated clothing.

Engineering Controls: Use appropriate safety procedures. Do not get in eyes.

9. Physical And Chemical Properties

State: Liquid

Odor:None

Boiling Point: Depends on concentration 104°C

Melting Point: Not applicable

Freezing Point: Depends on concentration 0°C

pH: <2.6

Appearance: Clear Solution, pale yellow

Specific Gravity: 1.24 @ 25°C

10. Stability And Reactivity

Chemical Stability: Stable in itself, may ferment if left standing, may be reactive with bases.

Reactivity : Avoid heat, moisture and incompatible materials.

Incompatible Substances: Metal Nitrates, Strong Bases and Oxidizers., Corrosive to most metals

Hazardous Decomposition Products: Carbon Dioxide and Carbon Monoxide.

11. Toxicological Information

Skin Contact: Irritating to the skin if not washed off promptly. Dermatitis is likely to occur from repeated or prolonged contact.

Skin Absorption: Not available

Eye Contact: Causes eye irritation.

Inhalation: Spray or mist is irritating to the nose and throat.

Ingestion: May cause mild gastrointestinal irritation. May cause vomiting, nausea, diarrhea, cramps and pain.

LD50: 3g/kg (rat).

LC50: 5.4g/kg (oral mouse)

Exposure Limits: Not available

Irritancy: Severe (corrosive)

Sensitization: Not reported as a human sensitizer.

Carcinogenicity: Does not appear in reference lists.

Teratogenicity & Mutagenicity: Does not apply to this product. No effects.

Reproductive Toxicology : No reproductive toxicology.

Toxicological Synergism : Not available.

12. Ecological Information

Ecological Information: This product can be toxic to aquatic life at levels over 60 ppm. Do not discharge into lakes, streams, ponds, sewers or other waters unless in accordance with the permitting authority.

Biodegradability: Naturally occurring Biodegradable

13. Disposal Considerations

Disposal Considerations Concentrated solutions may be considered D002 wastes (corrosive) by RCRA: Disposal of all wastes must be done in accordance with municipal, provincial and federal regulations.

14. Transportation Information

PROPER SHIPPING NAME: Corrosive liquid, acidic, organic, n.o.s. (Citric Acid)

UN NUMBER: 3265

CAS NUMBER: 77-92-9

HAZMAT CLASS: Class 8 Corrosive

PACKAGING CLASS: II

15. Regulatory Information

OSHA Hazard Communication Evaluation : Not Regulated.

None of this product's components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4). SARA 302 (EHS TPQ) There are no specific

Threshold Planning Quantities for Citric Acid. The default Federal MSDS submission and inventory requirement filing threshold of 10,000 lbs. (4,540 kg) therefore applies, per 40 CFR 370.20.

16. Other Information

Prepared By: Steve Pardee - Keavys Corner LLC

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