

Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

- 1.1 Product Name:** Citric Acid
Product Code: 502-230X
- 1.2 Intended Use:** Compound used in customer substance/mixture/product.
- 1.3 Supplier:** Majestic Mountain Sage Inc
2490 S 1350 W
Nibley, Utah 84321 - United States of America
T 435.755.0863 - F 435.755.2108
www.TheSage.com
- 1.4 Emergency Telephone Number**
No additional information available.

SECTION 2: Hazards Identification

2.1 Classification

GHS Classification:

Acute Toxicity Dermal, Category 5	H313: May be harmful in contact with skin.
Skin Corrosion/Irritation, Category 3	H316: Causes mild skin irritation.
Eye Damage/Irritation, Category 2A	H319: Causes serious eye irritation.

2.2 GHS Label Elements, Including Precautionary Statements

Hazard Pictograms



Signal Word: Warning

Hazard Statements

H313 May be harmful in contact with skin.
H316 Causes mild skin irritation.
H319 Causes serious eye irritation.

Precautionary Statements

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue Rinsing.

2.3 HMIS Classification

Health Hazard: 2
Flammability: 0
Physical Hazards: 0

2.4 NFPA Rating

Health Hazard: 2
Fire: 0
Reactivity Hazard: 0

2.5 Potential Health Effects

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.
Skin: May be harmful if absorbed through skin. Causes skin irritation.
Eyes: Causes eye irritation.
Ingestion: May be harmful if swallowed.

SECTION 3: Composition/Information on Ingredients

3.1 Substance

Synonyms: 2-Hydroxy-1,2,3-propanetricarboxylic acid
Formula: C₆H₈O₇
Molecular Weight: 192.12 g/mol.

Chemical Name	CAS No.	EC No.
Citric Acid	77-92-9	201-069-1

SECTION 4: First Aid Measures

4.1 Description of First Aid Measures

- General Advice:** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
- Eye Contact:** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Consult a physician.
- Skin Contact:** Remove contaminated clothes. Wash affected skin with water and soap, do not use any solvents. Consult a physician.
- Inhalation:** Move person to fresh air. If not breathing, give artificial respiration. Consult a physician.
- Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

- Symptoms:** No information available.

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

- Note to physicians:** Treat symptomatically.

SECTION 5: Firefighting Measures

5.1 Extinguishing Media

- Suitable:** Water spray, dry chemical, alcohol foam, or carbon dioxide.
- Unsuitable:** No information available.

5.2 Specific Hazards Arising From the Chemical

- Auto-ignition Temperature:** 1011°C (1852°F) or by contact with an ignition source.

Explosion Hazards:

Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

5.3 Protective Equipment and Precautions for Firefighters

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

SECTION 6: Accidental Release Measures**6.1 Personal Precautions, Protective Equipment and Emergency Procedures**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and material for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

SECTION 7: Handling and Storage**7.1 Precautions for Safe Handling**

Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe dust. Avoid contact with eyes. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibilities such as oxidizing agents, reducing agents, metals, and alkalis.

7.2 Conditions for Safe Storage, Including Any Incompatibilities

Keep container tightly closed. Keep container in a cool, well-ventilated area.

SECTION 8: Exposure Controls/Personal Protection

8.1 Engineering Measures

Ensure adequate ventilation, especially in confined areas.

8.2 Individual Protection Measures, Such as Personal Protective Equipment

Eye/Face Protection:	Wear safety glasses with side shields (or goggles).
Skin/Body Protection:	Wear protective gloves (neoprene, nitrile or butyl rubber) and protective clothing.
Respiratory Protection:	In case of open handling of larger quantities or accidental release, particle mask or respirator with independent air supply.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical State:	Powder, difference granular size
Appearance:	White granules
Color:	White
Odor:	Odorless, with a strong acidic taste
Odor Threshold:	No information available

<u>Property</u>	<u>Values</u>
pH (20°C):	2.2 (10 g/l aqueous solution)
Melting/Freezing Point:	152-154°C
Boiling Point/Range:	No information available
Flash Point:	No information available
Evaporation Rate:	No information available
Flammability (solid, gas):	No information available
Flammability Limit in Air	
Upper Flammability Limit:	No information available
Lower Flammability Limit:	No information available
Vapor Pressure:	No information available
Vapor Density:	No information available
Density:	1.665 g/cm ³ (20°C)
Solubility:	~750,000 mg/l, water soluble, ethanol badly soluble, diethyl ether insoluble, benzene insoluble

Partition Coefficient:	log Pow -1.72 (octanol/water)
Ignition Point (liquid):	500°C
Decomposition Temperature:	No information available
Kinematic Viscosity:	No information available
Dynamic Viscosity:	No information available
Explosive Properties:	No information available
Oxidizing Properties:	No information available

9.2 Other Information

Softening Point:	No information available
Molecular Weight:	No information available
VOC Content (%):	No information available
Density:	No information available
Bulk Density:	~725 kg/m ³
Volatility:	No information available

SECTION 10: Stability and Reactivity

10.1 Reactivity

No information available.

10.2 Chemical Stability

No information available.

10.3 Possibility of Hazardous Reactions

No information available.

10.4 Conditions to Avoid

Humidity, temperature above 40°C.

10.5 Incompatible Materials

Potassium tartrate, alkalies, alkaline earth carbonates and bicarbonates, metal nitrates, acetates, sulfides.

10.6 Hazardous Decomposition Products

No information available.

10.7 Additional Information

Slight hygroscopic.

SECTION 11: Toxicological Information

11.1 Information on Toxicological Effects

Acute Toxicity:	LD50 5,400 mg/kg (oral, mouse) LD50 >7,000 mg/kg (oral, rabbit) LD50 >6,730 mg/kg (oral, rabbit)
Sub Acute Toxicity:	NOEL 4,000 mg/kg/d (oral, rat; 90 days)
Local Effects:	Eye; strongly irritating (rabbit) Skin; moderately irritating (rabbit)
Chronic Toxicity:	Well tolerate 2,000 m/kg/d (oral, rat; 90 days)
Mutagenicity:	Not mutagenic
Carcinogenicity:	Not carcinogenic (rat, mouse)
Reproduction Toxicity:	Not teratogenic
Note:	Intermediate product of human metabolism (Citric acid Crystal)

SECTION 12: Ecological Information

12.1 Ecotoxicity

Moderately toxic for planktonic crustaceans (*Daphnia magna*); LC₀ 80 mg/l
Barely toxic for fish (goldfish); EC₀ 625 mg/l
Barely toxic for microorganisms (*Pseudomonas Puttida*); EC₀ (16 h) 485 mg/l
Barley toxic for protozoa (*Entosiphon sulcatum*)
Moderately toxic for algae (*Microcystic aeruginosa*); EC₀ 640 mg/l

12.2 Persistence and Degradability

Well inherently biodegradable 98%, 7 days.

12.3 Bioaccumulation

No information available.

12.4 Air Pollution

Observe local/national regulation.

12.4 Other Adverse Effects

No information available.

SECTION 13: Disposal Considerations

13.1 Waste Treatment Methods

Disposal of Wastes:	Hazardous waste. Dispose of in compliance with the laws and regulations pertaining to this product in your jurisdiction.
Contaminated Packaging:	Empty containers should be taken for local recycling, recovery or waste disposal.

SECTION 14: Transport Information

14.1 Transportation

Not classified by transport regulations.

SECTION 15: Regulatory Information

15.1 U.S. Federal and State Regulations

OSHA Hazards Irritant.

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute health hazard.

California Proposition 65 Components

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16: Other Information

Notes:

This safety data sheet is based on the properties of the material known at the time the data sheet was issued. The safety data sheet is intended to provide information for a health and safety assessment of the material and the circumstances, under which it is packaged, stored or applied in the workplace. For such a safety assessment holds no responsibility. This document is not intended for quality assurance purposes.