



**Citric Acid**  
Safety Data Sheet

**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, UT 84321 - United States of America  
T 435.755.0863 - F 435.755.2108  
[www.TheSage.com](http://www.TheSage.com)
- 1.4 Emergency Telephone Number**  
No additional information available

**SECTION 2: Hazards Identification**

**2.1 Classification**

**OSHA Hazards:** Irritant

**GHS Classification:**

Acute Toxicity, Dermal (Category 5)  
Skin Irritation (Category 3)  
Eye Irritation (Category 2A)

**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:**  $C_6H_8O_7$   
**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 alkalies.

**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.

### 8.3 Individual Protection Measures, Such as Personal Protective Equipment

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

<b>SECTION 9: Physical and Chemical Properties</b>
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#### 9.1 Information on basic physical and chemical properties

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

<u>Property</u>	<u>Values</u>
<b>pH (20°C):</b>	2.2 (10 g/l aqueous solution)
<b>Melting/Freezing Point:</b>	152-154°C
<b>Boiling Point/Range:</b>	No information available
<b>Flash Point:</b>	No information available
<b>Evaporation Rate:</b>	No information available
<b>Flammability (solid, gas):</b>	No information available
<b>Flammability Limit in Air</b>	
<b>Upper Flammability Limit:</b>	No information available
<b>Lower Flammability Limit:</b>	No information available
<b>Vapor Pressure:</b>	No information available
<b>Vapor Density:</b>	No information available
<b>Density:</b>	1.665 g/cm <sup>3</sup> (20°C)
<b>Solubility:</b>	~750,000 mg/l, water soluble, ethanol badly soluble, diethyl ether insoluble, benzene insoluble
<b>Partition Coefficient:</b>	log Pow -1.72 (octanol/water)
<b>Ignition Point (liquid):</b>	500°C
<b>Decomposition Temperature:</b>	No information available
<b>Kinematic Viscosity:</b>	No information available
<b>Dynamic Viscosity:</b>	No information available
<b>Explosive Properties:</b>	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<sup>3</sup>  
**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)

<b>Local Effects:</b>	Eye; strongly irritating (rabbit) Skin; moderately irritating (rabbit)
<b>Chronic Toxicity:</b>	Well tolerate 2,000 m/kg/d (oral, rat; 90 days)
<b>Mutagenicity:</b>	Not mutagenic
<b>Carcinogenicity:</b>	Not carcinogenic (rat, mouse)
<b>Reproduction Toxicity:</b>	Not teratogenic
<b>Note:</b>	Intermediate product of human metabolism (Citric acid Crystal)

## SECTION 12: Ecological Information

### 12.1 Ecotoxicity

Moderately toxic for planktonic crustaceans (*Daphnia magna*); LC<sub>0</sub> 80 mg/l  
 Barely toxic for fish (goldfish); EC<sub>0</sub> 625 mg/l  
 Barely toxic for microorganisms (*Pseudomonas Puttida*); EC<sub>0</sub> (16 h) 485 mg/l  
 Barley toxic for protozoa (*Entosiphon sulcatum*)  
 Moderately toxic for algae (*Microcystic aeruginosa*); EC<sub>0</sub> 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

<b>Disposal of Wastes:</b>	Hazardous waste. Dispose of in compliance with the laws and regulations pertaining to this product in your jurisdiction.
<b>Contaminated Packaging:</b>	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.