

**SECTION 1: IDENTIFICATION**

**1.1 Product identifier**

**Product Name** Citric acid anhydrous, Citric acid  
**Chemical name** 2-hydroxypropane-1,2,3,- tricarboxylic acid  
**CAS No.** 77-92-9

**1.2 Relevant identified uses of the substance or mixture and uses**

**Identified use(s)** Used as a sour agent, buffering agent and antioxidant in the food industry; a correctant in pharmaceutical industry; used in detergents, buffering and chelating, sizing and as a sequestrant; Oil industry, Textile industry; Agriculture applications.  
**Uses advised against** No uses advised against.

**1.3 Details of the supplier of the Safety Data Sheet**

**Company Identification**  
Level 7 Chemical  
255 Sturgis Rd, Conway, AR 72034  
(855) 927-1777

**1.4 Emergency telephone number** CHEMTREC, +1 800 424 9300  
**Opening hours** 24 hours

**SECTION 2: HAZARDS IDENTIFICATION**

- 2.1.1 **GHS Classification:** Eye Irritating---Category 2
- 2.1.2 **OSHA Hazards:** Combustible Dust
- 2.1.3 **HPR Hazards:** Combustible Dust
- 2.1.4 **Others:** May form combustible dust concentrations in air(During processing)
- 2.2.1 **The label elements according to Regulation:** OSHA HCS 29 CFR 1910.1200

**Hazard Pictogram:**



**Signal word(s):** Warning  
**Hazard statement(s):** Causes serious eye irritation

**Precautionary statement(s):**  
Wash hands thoroughly after handling  
Wear eye protection.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/attention.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1 Substance**

Composition	%W/W	CAS	GHS Class
Citric acid	99.5 –100.5	77-92-9	2

**3.2 Mixture.** Not applicable

**SECTION 4: FIRST AID MEASURES**

**First Aid**

**For Eye Contact:** If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.  
**For Skin Contact:** Flush immediately with plenty of water and remove contaminated clothing. Call an ambulance, continue to rinse during transportation to hospital and take along these instructions.  
**In case of Ingestion:** Never give liquid to an unconscious person.  
**In case of Inhalation:** Move to fresh air. If breathing is difficult, give oxygen. Perform artificial respiration if breathing has stopped.

**4.1 Description of first aid measures**

**Inhalation** Move to fresh air.  
**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. If irritation persists, call a physician.

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<b>Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
<b>Ingestion</b>	Do NOT induce vomiting. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Consult a physician.
<b>4.2 Most important symptoms and effects, both acute and delayed</b>	Serious eye damage/eye irritation: Eye Irrit. 2
<b>4.3 Indication of immediate medical attention and special treatment needed</b>	Consult a physician.

### SECTION 5: FIRE-FIGHTING MEASURES

<b>5.1 Extinguishing Media</b>	
<b>5.1.1 Suitable Extinguishing Media</b>	Use alcohol-resistant foam, carbon dioxide, dry powder or water fog.
<b>5.1.2. Unsuitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>5.2 Special hazards arising from the substance or mixture</b>	Oxides of carbon
<b>5.3 Advice for fire-fighters</b>	In the event of fire, wear self-contained breathing apparatus and wear suitable protective clothing. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations
<b>5.4 Additional information</b>	Explosion hazard from the generation of dust.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

<b>6.1 Personal precautions, protective equipment and emergency procedures</b>	Avoid contact with skin and the eyes. Use personal protective equipment.
<b>6.2 Environmental precautions</b>	Do not flush substance into surface water or sewage system.
<b>6.3 Methods and material for containment and cleaning up</b>	Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation, Keep in suitable, closed containers for disposal.
<b>6.4 Reference to other sections</b>	Section 8
<b>6.5 Additional Information</b>	Not known

### SECTION 7: HANDLING AND STORAGE

<b>7.1 Precautions for safe handling</b>	Avoid contact with skin and eyes. Use only in well-ventilated areas. Do not breathe vapours/dust
<b>7.2 Conditions for safe storage, including any incompatibilities</b>	Keep locked up or in an area accessible only to qualified staff
<b>Storage</b> Keep at	Store in tightly closed original container in a dry, cool and well ventilated place.  temperature not more than 30°C/86°F. Keep away from metals, keep away from oxidizing agents, keep away from strong bases, keep away from amines.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure limits** Where exposure limits have not been established for specific components of this material, please observe the OSHA.

**Eye/face protection** Safety glasses with side-shields.



**Skin protection (Hand protection/ Other)**

Avoid contact with skin, eyes and clothing. Wash hands before breaks and at the end of workday.



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### Respiratory protection

Provide adequate ventilation. Wear respirator where dust level exceeds 10 mg/m<sup>3</sup>.



- 8.3.3 Environmental Exposure Controls** Do not allow to enter drains, sewers or watercourses
- 8.3.4 Hygiene measures** Do not smoke in the work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Appearance	Solid,
crystalline Colour	White
Odour	Odourless
pH (Value)	1,8,5% 25 °C
Melting Point	Approx. 153 °C at 101.3KPa
Boiling point/boiling range (°C):	Decomposes before boiling
Flash Point (°C)	Not applicable
Flammability	Non flammable
Density	1,542 g/cm <sup>3</sup> at 20 °C
Solubility (Water)	750 g/L at 20 °C
Solubility (Other)	Soluble in alcohol
Partition Coefficient (Log Kow: -n-Octanol/water)	-0.1 to -1.7
Decomposition Temperature (°C)	Not known
Explosive properties	Not explosive
Oxidising properties	Not oxidising

## SECTION 10: STABILITY AND REACTIVITY

<b>10.1 Reactivity</b>	Reacts with alkaline
<b>10.2 Chemical stability</b>	Stable under normal
<b>10.3 Conditions to avoid</b>	Exposure to heat and
<b>10.4 Incompatible materials</b>	Sodium nitrite, potassium
<b>10.5 Hazardous Decomposition Product(s)</b>	Oxides of carbon.

## SECTION 11: TOXICOLOGICAL INFORMATION

<b>11.1 Information on toxicological effects</b>	
<b>11.1.1 Substances</b>	
<b>Acute toxicity</b>	
<b>Ingestion LD50 (mouse)</b>	5400 mg/kg bw
<b>Inhalation</b>	No data
<b>Skin Contact. LD50 (dermal):</b>	>2000 mg/kg bw
<b>Skin corrosion/irritation</b>	Mild skin irritant
<b>Eye Contact</b>	Irritating
<b>Respiratory or skin sensitization –</b>	Not a sensitizer
<b>Mutagenicity</b>	Not a mutagen
<b>Carcinogenicity</b>	Not a carcinogen
<b>Reproductive toxicity</b>	Not a reproductive toxin
<b>STOT - single exposure</b>	No evidence of toxicity
<b>STOT - repeated exposure</b>	No evidence of toxicity
<b>Aspiration hazard</b>	No known aspiration hazard

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### 11.2 Potential health effects

<b>Eyes</b>	Irritating to eyes. Contact with eyes may cause mechanical irritation.
<b>Skin</b>	According to GHS hazard classification It is not considered as being a skin irritation.
<b>Inhalation</b>	May cause irritation of respiration tract.
<b>Ingestion</b>	Oral exposure is not anticipated under normal working condition.
<b>Main Symptoms</b>	Itching.Redness. Burning sensation.

## SECTION 12: ECOLOGICAL INFORMATION

<b>12.1 Toxicity</b>	
<b>12.1.1</b> Fish LC50 (48hr)	440mg/l
<b>12.1.2</b> Daphnia. Magna LC 50 (24hr)	1535 mg/l
<b>12.1.3</b> Algae NOEC (8d mat. (nominal) based on cell density)	425 mg/l
<b>12.2 Persistence and degradability</b>	Biodegradable
<b>12.3 Bioaccumulative potential</b>	No expected to bioaccumulate
<b>12.4 Mobility in soil</b>	Not applicable
<b>12.5 Results of PBT and vPvB assessment</b>	Not a PBT or a vPvB
<b>12.6 Other adverse effects</b>	Not known

## SECTION 13: DISPOSAL CONSIDERATIONS

<b>13.1 Waste treatment methods</b>	Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority. Rinsewater resulting from cleanup should be collected for treatment before disposal. Solutions with low PH-value should be neutralized before discharge.
<b>13.2 Contaminated Packaging</b>	Empty containers should be decontaminated and taken for local recycling, recovery or waste disposal.

## SECTION 14: TRANSPORT INFORMATION

<b>14.1 USA Land transport (DOT)</b>	Not regulations.
<b>14.2 Sea transport (IMDG)</b>	Not regulations.
<b>14.3 Air transport (ICAO/IATA)</b>	Not regulations.

## SECTION 15: REGULATORY INFORMATION

<b>15.1 International Inventories</b>	
<b>TSCA(USA)</b>	Yes
<b>DSL(Canada)</b>	Yes
<b>15.2 USA Regulatory</b>	
<b>OSHA Hazards</b>	Cause eye irritation
<b>SARA 311/312 Hazards</b>	No SARA Hazards
<b>SARA 313</b>	This material does not contain any chemical components with know CAS numbers that exceed the threshold reporting levels established by SARA Title III,Section 313.
<b>SARA 302</b>	No chemicals in this material are subject to the reporting requirements of SARA Title III Section 302.
<b>California Prop 65</b>	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: Version 2.  
Revision date: Aug/12/2019

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.