

# Safety Data Sheet

## 1. Identification of the substance/preparation and of the company/undertaking

Product name Chemurgic's Citric Acid Anhydrous

**Use** - additive in processed food and beverages

- additive for cosmetics

- Industrial and technical applications

**Company information** 

Address: Chemurgic Agricultural Chemicals, Ltd.

P.O. Box 2106 Turlock, CA 95381

Phone: DAY: 209-634-2951 EVE: 209-652-7260

Email: info@chemurgic.net

**Emergeny phone** 

**number:** INFOTRAC: 1-800-535-5053

EPA National Response Center: (800) 424-8802

#### 2. Hazards identification

#### Classification of the substance or mixture

## GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)



Eye irritation, category 2A

**Signal Word:** Warning **Hazard Statements:** 

H319: Causes serious eye irritation.

**Precautionary Statements:** 

P264: Wash hands thoroughly after handling. P280: Wear eye protection/face protection.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses if present and easy to do. Continue rinsing.

P337 + P313: If eye irritation persists, get medical advice/attention.

## 3. Composition/Information on ingredients

Chemical name: 2-Hydroxy-1,2,3-propanetricarboxylic acid

 $\begin{array}{lll} \hbox{EINECS number:} & 201\ 069\ 1 \\ \hbox{Empirical formula:} & C_6H_8O7 \\ \hbox{Molecular mass:} & 192.12\ g/mol \\ \hbox{Synonyms} & - \hbox{Citric Acid} \\ \end{array}$ 

- Citric Acid Anhydrous Granular

- Citric Acid Anhydrous Fine Granular

Name	CAS-No	%	GHS-US classification
Citric Acid, Anhydrous	77-92-9	<=100%	Eye Irrit. 2A, H319

#### 4. First-aid measures

Eye contact Rinse immediately with tap water for 10 minutes-open eyelids forcibly.

Consult physician.

**Skin contact** Remove contaminated clothes. Wash affected skin with water and soap.

Do not use any solvents.

**Inhalation** Remove the casualty to fresh air and keep him/her clam.

Consult physician.

Note to physician Treat symptomatically.

# 5. Fire-fighting measures

Fire Autoignition temperature: 1011°C (1852°F) or by contact with

an ignition source.

**Explosion** Fine dust dispersed in air in sufficient concentrations, and in

presence of an ignition source is a potential dust explosion

hazard.

Fire Extinguishing Media

Special Information

Water spray, dry chemical, alcohol foam, or carbon dioxide. In the event of a fire, wear full protective clothing and NIOSH approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure

mode.

### 6. Accidental release measures

Methods for cleaning up Collect solid (avoid dust formation) and hand over to waste

removal. Rinse with plenty of water.

## 7. Handling and Storage

Precautions: 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 incompatibles such as oxidizing agents,

reducing agents, metals, alkalis.

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

area.

# 8. Exposure controls/Personal protection

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Monitoring

Analytics Sampling on glass fibre filter and gravimetric or chemical determination

Personal protective equipment

**Respiratory protection** In case of open handing of larger quantities or accidental release:

particle mask or respirator with independent air supply

Hand protection Protective gloves (neoprene, nitrile or butyl rubber)

Eye protection Safety glasses

# 9. Physical and chemical properties

Appearance:

Colour white

Form powder, different granular size

Odour odourless, with a strong acidic taste

Odour threshold No data available pH value (20 C) 1.7 10% solution Melting point/freezing point 152 to 154°C Initial boiling point and boiling range No data available Flash point No data available Evaporation rate No data available Flammability (solid, gas) No data available Upper/lower flammability or explosive limits No data available Vapour pressure No data available Vapour density No data available Relative density 1.665 g/cm<sup>3</sup> (20 C)

Bulk density ~725 kg/m<sup>3</sup>

Solubility ~750,000 mg/l, water, soluble in ethanol and ether

Partition coefficient: n-octanol/water log Pow -1.72 (octane/water)

Auto-ignition temperature 500°C

Decomposition temperature No data available Viscosity No data available

### 10. Stability and reactivity

Conditions to avoid - humidity

- temperatures above 40 °C

Materials to avoid - potassium tartrate, alkalis, alkaline earth carbonates and

bicarbonates, metal nitrates, acetates, sulfides

Note - slightly hygroscopic

# 11. Toxicological information

Acute toxicity - LD<sub>50</sub> 5'400 mg/kg (oral, mouse)

Subacute toxicity - NOEL 4'000 mg/kg/d (oral, rat; 90 days)

Local effects - eye: strongly irritating (rabbit)

- skin: moderately irritating (rabbit)

Chronic toxicity - well tolerated 2000 m/kg/d (oral, rat; 90 days)

Mutagenicty - not mutagenic

Carcinogenicity - not carcinogenic (rat)

- not carcinogenic (mouse)

Reproduction toxicity - not teratogenic

Note - intermediate product of human metabolism(citric acid cycle)

### 12. Ecological information

Inherent biodegradability - well inherently biodegradable 98%, 7 days

(Zahn-Welllens test, OECD No. 302B)

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 putida)

EC<sub>0</sub>(16 h) 485 mg/l

- barely toxic for protozoa (Entosiphon sulcatum)

- moderately toxic for algae (Microcystic aeruginosa)

EC<sub>0</sub> 640 mg/l

Air pollution - observe local/national regulations

## 13. Disposal considerations

Waste Disposal Methods 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.

## 14. Transport information

**In accordance with DOT:** Not regulated by ground transportation.

#### 15. Regulatory information

#### **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

#### 16. Other information

Use - food and feed additive

- ingredient in pharmaceutical preparations, especially in

Effervescent tablets

- synergist in antioxidant mixtures

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This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.

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