

# Safety Data Sheet

REVISION: 02/28/2022

# **SECTION 1: Product and Company Identification**

### Identification of the substance or mixture

 Catalog #:
 10238, 10238-1

 Product Name:
 Citric Acid

 CAS-No.:
 77-92-9

# **Company Identification**

Cepham Life Sciences Inc. 11830 W Market Place, Suite K Fulton, MD 20759

USA

Toll Free: 1-800-257-1565 Phone: 410-636-4954

24-hour Emergency Response for Hazardous Materials [or Dangerous Goods] Incident, Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Toll Free: 1-800-424-9300/ +1 703-527-3887 CCN 1010970

For Research Use Only. Not for use in diagnostic procedures.

# **SECTION 2: Hazards identification**

# Classification of the substance or mixture

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

Eye irritation (Category 2A), H319

For the full text of the H-Statements mentioned in this Section, see Section 16.

### GHS Label elements, including precautionary statements

(1)

Pictogram
Signal word
Warning

Hazard statement(s)

H319 Causes serious eye irritation

Precautionary statement(s)

P264 Wash skin 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.

Hazards not otherwise classified (HNOC) or not covered by GHS - none

# **SECTION 3: Composition / Information on Ingredients**

# **Substances**

Formula: C6H8O7
Molecular weight: 192.12 g/mol
CAS-No.: 77-92-9
EC-No.: 201-069-1

**Hazardous components** 

Catalog #: 10238, 10238-1

Compound	Classification	Concentration
Citric Acid	Eye Irrit. 2A; H319	<= 100%

Page 1 of 6
Product Name: Citric Acid

# For the full text of the H-Statements mentioned in this Section, see Section 16.

# **SECTION 4: First Aid Measures**

#### Description of first aid measures

#### General advice

Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

# Indication of any immediate medical attention and special treatment needed

No data available.

# **SECTION 5: Firefighting Measures**

# **Extinguishing Media**

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### Special hazards arising from the substance or mixture

No data available

## Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

### **Further information**

No data available

# **SECTION 6: Accidental Release Measures**

### 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. For personal protection see section 8.

### **Environmental precautions**

Do not let product enter drains.

# Methods and materials for containment and cleaning up

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

### Reference to other sections

For disposal see section 13.

# **SECTION 7: Handling & Storage**

#### Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

# Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Page 2 of 6
Product Name: Citric Acid

Catalog #: 10238, 10238-1 www.CephamLS.com

#### Specific end use(s)

Apart from the users mentioned in section 1.2, no other specific uses are stipulated.

# **SECTION 8: Exposure Controls / Personal Protection**

# **Control parameters**

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

### **Exposure controls**

### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### **Personal Protective Equipment**

# Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

### **Body Protection**

Impervious clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### Control of environmental exposure

Do not let product enter drains.

# **SECTION 9: Physical and Chemical Properties**

# Information on basic physical and chemical properties

Catalog #: 10238, 10238-1

a) Appearance Form: crystalline
Color: white
b) Odor No data available
c) Odor Threshold No data available

f) Initial boiling point and boiling range
g) Flash point
h) Evaporation rate
i) Flammability (solid, gas)

No data available
No data available
No data available

j) Upper/lower flammability or Lower explosion limit: 8% (V)

Page 3 of 6
Product Name: Citric Acid

explosive limits

k) Vapor pressure
No data available
No data available
n) Relative density
No data available
No data available
No data available
383 g/l at 25 °C (77 °F)

o) Partition coefficient: n-octanol/water log Pow: -1.639 at 20 °C (68 °F)

p) Auto-ignition temperature
q) Decomposition temperature
r) Viscosity
S) Explosive properties
t) Oxidizing properties
No data available
No data available
No data available
No data available

### Other safety information

No data available

# SECTION 10: Stability & Reactivity

### Reactivity

No data available

### **Chemical stability**

Stable under recommended storage conditions.

### Possibility of hazardous reactions

No data available

#### Conditions to avoid

No data available

### Incompatible materials

Oxidizing agents, Bases, reducing agents, Nitrates

# Hazardous decomposition products

Other decomposition products - No data available In the event of fire: see section 5

# **SECTION 11: Toxicological Information**

# Information on toxicological effects

# Acute toxicity

LD50 Oral - Rat - 5,400 mg/kg (OECD Test Guideline 401)

Inhalation: No data available

LD50 Dermal - Rat - > 2,000 mg/kg (OECD Test Guideline 402)

No data available

# Skin corrosion/irritation

Skin - Rabbit Result: Mild skin irritation (OECD Test Guideline 404)

# Serious eye damage/eye irritation

Eyes - Rabbit Result: Irritating to eyes. (OECD Test Guideline 405)

# Respiratory or skin sensitization

Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

# Germ cell mutagenicity

no data available

# Carcinogenicity

Catalog #: 10238, 10238-1

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as

probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a

Page 4 of 6
Product Name: Citric Acid

carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a

known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a

carcinogen or potential carcinogen by OSHA.

# Reproductive toxicity

no data available

#### Specific target organ toxicity - single exposure

No data available

#### Specific target organ toxicity - repeated exposure

No data available

### **Aspiration hazard**

No data available

### Additional Information

RTECS: GE7350000

Vomiting, Diarrhea, Damage to tooth enamel., Dermatitis, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

# **SECTION 12: Ecological Information**

# **Toxicity**

Toxicity to fish mortality LC50 - Leuciscus idus melanotus - 440 mg/l - 48 h

(OECD Test Guideline 203)

Toxicity to daphnia and

other aquatic invertebrates

static test - Daphnia magna (Water flea) - 1535 mg/l - 24 h

# Persistence and degradability

No data available

### **Bio-accumulative potential**

No data available

### Mobility in soil

No data available

### Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

# Other adverse effects

No data available.

# **SECTION 13: Disposal Considerations**

# Waste treatment methods

### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

# Contaminated packaging

Dispose of as unused product

# SECTION 14: Transport Information

#### DOT (US)

Not dangerous goods

### IMDG

Not dangerous goods

# IATA

Not dangerous goods

Catalog #: 10238, 10238-1

Page **5** of **6 Product Name:** Citric Acid

www.CephamLS.com

# **SECTION 15: Regulatory Information**

### **SARA 302 Components**

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

### **SARA 313 Components**

SARA 313: 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

# **Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

### Pennsylvania Right To Know Components

CAS-No. 77-92-9 **Revision Date** Citric acid

# **New Jersey Right To Know Components**

Citric acid CAS-No. 77-92-9 **Revision Date** 

#### California Prop. 65 Components

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**

### Full text of H-Statements referred to under sections 2 and 3.

Eye Irrit. Eye irritation

H319 Causes serious eye irritation.

# **HMIS Rating**

Health hazard: 2 Chronic Health Hazard: Flammability: 0 Physical Hazard 0

# **NFPA Rating**

Health hazard: 2 Fire Hazard: 0 Reactivity Hazard: 0

### Disclaimer:

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It does not represent any guarantee of the properties of the product. Cepham Life Sciences Incorporated and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

Product Name: Citric Acid

www.CephamLS.com