Safety Data Sheet



1. IDENTIFICATION

Product Name Citric Acid

Chemical Synthesis Recommended use Valudor Products, LLC Supplier

179 Calle Magdalena Suite 100

Encinitas CA 92024 (760) 635 8500

800-535-5053 (Infotrac) **Emergency Telephone**

2. HAZARD IDENTIFICATION

Classification

This product is considered hazardous under the U.S. OSHA 29 CFR 1910.1200 Hazard Communication Standard.

Eye Damage/Irritation	Category 2A
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Label Elements

GHS Pictograms



Signal Word Warning

Hazard Statements Causes serious eye irritation **Precautionary Statements –**

Prevention

Wash thoroughly after handling
Wear eye protection/face protection
If in eyes: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue Response

rinsing.

If eye irritation persists: Get medical advice/attention

Hazards not other classified None

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance

Chemical Name Citric Acid Formula C₆H₈O₇ 192.12 g/mol Molecular weight 77-92-9 Cas No. Concentration 95-100%

4. FIRST-AID MEASURES

First Aid Measures

Eye Contact Immediately rinse with plenty of water. Remove contact

lenses, if present and easy to do so. Keep eye wide open while rinsing. Continue rinsing for 15 minutes. Call a doctor/

physician if irritation persists

Skin Contact Wash off immediately with plenty of water. Remove all

contaminated clothes and shoes. If skin irritation persists,

call a doctor/physician

Inhalation Remove to fresh air. If not breathing, give artificial

respiration. Get medical attention.

Ingestion Do not induce vomiting without medical advice. Rinse

mouth with water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician

Most important symptoms/effects, acute and delayed

Symptoms No information available

5. FIRE-FIGHTING MEASURES

Suitable extinguishing Media Dry chemical, foam, water spray, carbon dioxide

Specific Hazards Arising from the chemical

Hazardous combustion products Thermal decomposition can lead to the release of irritation or

toxic gases and vapors; including and not limited to:

Carbon Oxides

Protective equipment and precautions for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

Personal precautions Avoid contact with eyes, skin and clothing. Avoid breathing

vapors or mists. Use personal protection recommended in

Section 8. Ensure adequate ventilation.

Methods and materials for containment and cleanup

Methods for clean-up Sweep or vacuum up and place in an appropriate closed

container. Keep unauthorized personnel away. Avoid

generating dust.

Environmental Precautions Prevent entry into waterways or sewers

7. HANDLING AND STORAGE

Precautions for safe handling

Do not breathe dust. Avoid contact with eyes, skin and clothing. Wear eye/face protection. Do not use in areas without adequate ventilation. Use personal protective equipment recommended in section 8. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product. Clean equipment and work area regularly.

Conditions for safe storage, including any incompatibilities

Store in a cool/low-temperature, well-ventilated, dry place. Keep containers closed and labeled when not in use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limits established by the regional specific regulatory bodies

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. Consider the potential hazards of this material, applicable exposure limits, job activities and other substances in the work place when designing controls and selecting personal protective equipment.

Personal Protective Equipment

Eye/face protection Wear chemical safety goggles

Skin protection Choose the appropriate protective clothing and gloves based

on the tasks being performed to avoid exposure to skin. Wear

protective gloves

Respiratory protection Not required under normal circumstances. If exposure limits

are exceeded or if irritation or other symptoms are

experienced use a NIOSH/MSHA approved respirator

Hygiene Measures Handle in accordance with good industrial hygiene and safety

practices. Do not eat, drink or smoke when using this

product.

9. PHYSICAL and CHEMICAL PROPERTIES

Appearance Colorless to White Crystalline

Physical state Solid Odor None

Odor threshold No information available pH 2.1 (0.1 M concentration)

Melting point / freezing point 153 C

Boiling point / Boiling rangeNot applicableFlash pointNot applicableEvaporation rateNot applicable

Flammability No information available

Flammability or explosive

limits

Upper No information available

LowerNo information availableVapor pressureNo information availableVapor densityNo information available

Specific Gravity 1.665 **Solubility in water** Soluble

Partition coefficientNo information availableAuto-ignition temperatureNo information availableDecomposition temperatureNo information availableViscosityNo information available

10. STABILITY AND REACTIVITY

Reactivity None known under normal conditions.

Chemical stability Stable under ordinary conditions of use and storage.

Possibility of hazardous

reactions

None under normal processing.

Conditions to avoid Avoid dust formation. Avoid exposure to moisture.

Incompatible materials Strong oxidizers. Strong Bases. Nitrates, Metals

Hazardous decomposition

products

Hazardous combustion can lead to the release of irritating

gases and vapors.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Skin contactMay cause skin irritationEye contactCauses serious eye irritation

Inhalation May cause irritation of respiratory tract

Ingestion May be harmful if swallowed

Symptoms related to the physical chemical and toxicological characteristics

No information available

Delayed and immediate effects and also chronic effects form short and long-term exposure

Skin damage/irritation Not classified

Eye damage/irritation Causes serious eye irritation

Sensitization
Not classified
Mutagenic effects
Not classified

Acute Toxicity

Component information

Component	Cas-No	LD50 Oral	LD50 Dermal	LC50 Inhalation
Citric Acid	77-92-9	5,400 mg/kg	2,000 mg/kg	-

12. ECOLOGICAL INFORMATION

Ecotoxicity Should not be released to environment

Component	Freshwater Fish	Freshwater Algae	Water Flea
Citric Acid	LC50: 440 mg/L 96h	640 mg/L 7 d	EC50: 120 mg/L 72 h
77-92-9	(Leuciscus idus)	(Green algae)	(Daphnia magna)

Persistence and degradability No information available

Bioaccumulative potential No information available

Mobility in soil No information available

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods

Processing, use or contamination of this product may occur during product use. Accordingly, it is the responsibility of the user to determine the proper disposal methodologies. Consult the appropriate state, regional or local regulations to ensure complete and accurate classification. Dispose of contaminated packaging in accordance with local regulations.

14. TRANSPORT INFORMATION

DOTNot regulatedIATANot regulatedIMDGNot regulated

15. REGULATORY INFORMATION

International Inventories

TSCA	Listed
DSL	Listed

US Federal Regulations

TSCA section 12(b) Export Notification

Not regulated

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA).

Not applicable

SARA 311/312 Hazard Categorization

Acute health hazard Yes
Chronic Health Hazard No
Fire hazard No
Pressure No
Reactivity No

CERCLA/SARA 302 & 304

Section 302 & 304 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). Not applicable

CWA (Clean Water Act)

Not applicable

US State Regulations

California Proposition 65

This product does not contain any proposition 65 chemicals

16. OTHER INFORMATION

NFPA Ratings Health: 2 Flammability: 0 Reactivity: 0

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Disclaimer

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