

Material Safety Data Sheet (MSDS)

Product Name: Citric Acid Anhydrous USP Grade

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

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1. Identification of the Substance/Preparation and Company

- **Product Name:** Citric Acid Anhydrous
- **Grade:** USP
- **CAS No.:** 77-92-9
- **Molecular Formula:** $C_6H_8O_7$
- **Recommended Use:** Pharmaceutical excipient, food additive, acidulant, buffering agent

2. Hazard Identification

- **Classification:** Not classified as hazardous under GHS
- **Potential Hazards:**
 - Mild eye irritation
 - Mild skin irritation on prolonged contact
 - Dust may cause respiratory discomfort

- **Signal Word:** None
 - **Hazard Statements:** Not applicable
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3. Composition / Information on Ingredients

- **Chemical Name:** Citric Acid Anhydrous
 - **Purity:** $\geq 99.5\%$ (USP Grade)
 - **CAS No.:** 77-92-9
 - **EC No.:** 201-069-1
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4. First Aid Measures

- **Inhalation:** Move to fresh air. Seek medical attention if irritation persists.
 - **Skin Contact:** Wash with soap and water. Remove contaminated clothing.
 - **Eye Contact:** Rinse immediately with plenty of water for at least 15 minutes.
 - **Ingestion:** Rinse mouth with water. Do not induce vomiting. Seek medical advice if needed.
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5. Fire Fighting Measures

- **Suitable Extinguishing Media:** Water spray, dry chemical, CO₂, foam
 - **Specific Hazards:** Product is not flammable; may decompose at high temperatures
 - **Protective Equipment:** Self-contained breathing apparatus
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6. Accidental Release Measures

- Avoid dust formation
 - Sweep up and collect into suitable containers
 - Dispose according to local regulations
 - Ensure adequate ventilation
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7. Handling and Storage

- **Handling:** Handle in accordance with good industrial hygiene practices
 - **Storage:**
 - Store in a cool, dry place
 - Keep container tightly closed
 - Protect from moisture and heat
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8. Exposure Controls / Personal Protection

- **Exposure Limits:** Not established
 - **Engineering Controls:** Adequate ventilation
 - **Personal Protective Equipment (PPE):**
 - Safety goggles
 - Protective gloves
 - Dust mask if airborne dust is generated
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9. Physical and Chemical Properties

- **Appearance:** White crystalline powder
 - **Odor:** Odorless
 - **Taste:** Strongly acidic
 - **Solubility:** Freely soluble in water
 - **pH (5% solution):** 1.8 – 2.0
 - **Melting Point:** ~153°C
 - **Bulk Density:** Approx. 0.9–1.0 g/cm³
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10. Stability and Reactivity

- **Stability:** Stable under normal conditions
- **Conditions to Avoid:** Excessive heat, moisture

- **Incompatible Materials:** Strong oxidizing agents, strong bases
 - **Hazardous Decomposition Products:** Carbon oxides
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11. Toxicological Information

- **Acute Toxicity:** Low toxicity
 - **Skin Irritation:** Mild irritation possible
 - **Eye Irritation:** May cause irritation
 - **Carcinogenicity:** Not listed as carcinogenic
 - **Chronic Effects:** None known
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12. Ecological Information

- **Ecotoxicity:** Not expected to be harmful to aquatic life
 - **Biodegradability:** Readily biodegradable
 - **Bioaccumulation:** Not expected
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13. Disposal Considerations

- Dispose in accordance with local, regional, and national regulations
 - Small quantities may be flushed with plenty of water
 - Packaging should be recycled or disposed properly
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14. Transport Information (Detailed)

- **UN Number:** Not assigned
- **UN Proper Shipping Name:** Not regulated
- **Transport Hazard Class:** Not classified as dangerous goods
- **Packing Group:** Not applicable

Mode-wise Transport Classification:

- **Road Transport (ADR/RID):** Not regulated

- **Sea Transport (IMDG):** Not regulated
- **Air Transport (IATA):** Not regulated

Special Transport Precautions:

- Ensure bags or containers are securely sealed
- Protect from moisture during transportation
- Avoid damage to packaging
- Transport in clean, dry vehicles only

Environmental Hazards:

- Not a marine pollutant
- No special environmental precautions required

15. Regulatory Information

- Complies with USP specifications
- Not classified as hazardous under GHS, OSHA, or EU regulations
- Suitable for pharmaceutical and food applications

16. Other Information

- This MSDS is prepared based on available data and current regulations
- Information is provided in good faith but without warranty
- User is responsible for compliance with applicable laws and regulations
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