

Material Safety Data Sheet (MSDS)

Product Name: Citric Acid Anhydrous

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

Rawpharma Biz Pvt Ltd

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1. Identification of the Substance/Preparation and Company

- **Chemical Name:** Citric Acid Anhydrous
- **Synonyms:** 2-Hydroxy-1,2,3-propane-tricarboxylic acid
- **CAS Number:** 77-92-9
- **Molecular Formula:** $C_6H_8O_7$
- **Molecular Weight:** 192.12 g/mol

2. Composition / Information on Ingredients

- **Ingredient:** Citric Acid Anhydrous
- **Concentration:** 100%
- **CAS Number:** 77-92-9

3. Hazard Identification

- **GHS Classification:**
 - Eye irritation (Category 2A)
 - Skin irritation (Category 2)
- **Signal Word:** Warning
- **Hazard Statements:**
 - Causes serious eye irritation
 - Causes skin irritation

4. First Aid Measures

- **Inhalation:** Move to fresh air; if breathing is difficult, give oxygen and seek medical attention.
- **Skin Contact:** Wash with plenty of water; remove contaminated clothing; seek medical advice if irritation persists.
- **Eye Contact:** Rinse cautiously with water for several minutes; remove contact lenses; seek medical attention.
- **Ingestion:** Rinse mouth; do not induce vomiting; seek medical attention.

5. Firefighting Measures

- **Suitable Extinguishing Media:** Water spray, dry chemical, foam, or carbon dioxide.
- **Unsuitable Media:** None known.
- **Special Hazards:** May decompose on heating producing carbon oxides.
- **Protective Equipment:** Self-contained breathing apparatus, protective clothing.

6. Accidental Release Measures

- Wear personal protective equipment.
- Avoid dust formation.
- Sweep or scoop up material and place in a suitable container for disposal.
- Wash spill area with water.

7. Handling and Storage

- **Handling:** Avoid contact with skin and eyes; use with adequate ventilation; avoid dust formation.
- **Storage:** Keep container tightly closed in a cool, dry, well-ventilated place. Store away from strong oxidizing agents.

8. Exposure Controls / Personal Protection

- **Occupational Exposure Limit:** Not established
- **Engineering Controls:** Use adequate ventilation.
- **Personal Protective Equipment:**
 - Respiratory: Dust mask
 - Eyes: Safety goggles
 - Hands: Protective gloves
 - Skin: Protective clothing

9. Physical and Chemical Properties

- **Appearance:** White crystalline powder
- **Odor:** Odorless
- **pH:** 1.5 (1% solution)
- **Melting Point:** 153°C
- **Boiling Point:** Decomposes before boiling
- **Solubility:** Soluble in water, slightly soluble in ethanol

10. Stability and Reactivity

- **Stability:** Stable under normal conditions
- **Conditions to Avoid:** Excessive heat, moisture
- **Incompatible Materials:** Strong oxidizers, strong bases
- **Hazardous Decomposition Products:** Carbon oxides (CO, CO₂)

11. Toxicological Information

- **Acute Toxicity:** LD₅₀ (oral, rat) ~ 3,000 mg/kg

- **Skin Irritation:** Mildly irritating
- **Eye Irritation:** Irritating
- **Chronic Effects:** No known significant effects under normal usage

12. Ecological Information

- **Ecotoxicity:** Practically non-toxic to aquatic organisms
- **Persistence and Degradability:** Biodegradable
- **Bioaccumulative Potential:** Low
- **Mobility:** Soluble in water

13. Disposal Considerations

- Dispose in accordance with local, regional, and national regulations.
- Avoid release into the environment.
- Neutralize before disposal if required.

14. Transport Information (Detailed)

- **UN Number:** 3264 (Corrosive solid, acidic, inorganic, n.o.s. for some jurisdictions)
- **UN Proper Shipping Name:** Citric Acid Anhydrous
- **Transport Hazard Class:** Class 8 – Corrosive Substances
- **Packing Group:** III
- **Environmental Hazards:** Not classified as a marine pollutant
- **Transport Precautions:**
 - Avoid contact with incompatible materials.
 - Keep dry and in tightly closed containers.
 - Use personal protective equipment during handling.
 - During road transport, ensure vehicle is properly ventilated and avoid exposure to heat sources.
 - Follow local and international regulations for transport.

15. Regulatory Information

- **Hazard Classification:** According to GHS/CLP regulations
- **Safety Phrases:** Avoid contact with skin and eyes; wear suitable protective clothing; in case of contact, rinse immediately

16. Other Information

- MSDS prepared in accordance with international standards (ISO, OSHA, GHS).
- The information is believed to be accurate and reliable but does not constitute a warranty or guarantee.
- Users should verify suitability for their own circumstances.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.