

Material Safety Data Sheet (MSDS)

Product Name: Citric Acid Monohydrate (ensign)

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

- **Product Name:** Citric Acid Monohydrate (Ensign)
- **Chemical Formula:** $C_6H_8O_7 \cdot H_2O$
- **CAS Number:** 5949-29-1
- **Synonyms:** 2-hydroxy-1,2,3-propane-tricarboxylic acid monohydrate

2. Composition/Information on Ingredients

- Citric Acid Monohydrate (CAS 5949-29-1), purity $\geq 99\%$, generally recognized as safe and not classified as hazardous.

3. Hazard Identification

- **GHS Classification:** Not classified as hazardous
- **Potential Health Effects:**

- **Eye contact:** Irritating
- **Skin contact:** May cause mild irritation
- **Inhalation:** Dust may irritate respiratory tract
- **Ingestion:** Generally safe; excessive intake may cause gastrointestinal discomfort

4. First Aid Measures

- **Eye Contact:** Rinse with plenty of water for 15 minutes; seek medical advice if irritation persists.
- **Skin Contact:** Wash with soap and water.
- **Inhalation:** Move to fresh air; seek medical attention if symptoms occur.
- **Ingestion:** Rinse mouth; drink water; consult a physician in case of discomfort.

5. Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, dry chemical, CO₂.
- **Unsuitable Extinguishing Media:** None known.
- **Special Hazards:** Thermal decomposition may release CO₂, CO, and irritating fumes.
- **Protective Equipment:** Wear self-contained breathing apparatus and protective clothing.

6. Accidental Release Measures

- **Personal Precautions:** Avoid dust formation; wear protective equipment.
- **Environmental Precautions:** Prevent entry into drains or watercourses.
- **Cleanup Methods:** Sweep or vacuum; avoid generating dust. Dispose of in accordance with local regulations.

7. Handling and Storage

- **Handling:** Avoid dust formation; use in well-ventilated area.
- **Storage:** Store in a cool, dry, well-ventilated area; keep container tightly closed; protect from moisture.

8. Exposure Controls/Personal Protection

- **Engineering Controls:** Ensure adequate ventilation; use local exhaust if dust is generated.
- **Personal Protective Equipment (PPE):**
 - **Eye/Face:** Safety glasses with side shields
 - **Skin:** Protective gloves and clothing
 - **Respiratory:** Dust mask or respirator if dust levels are high
- **Hygiene Measures:** Wash hands thoroughly after handling.

9. Physical and Chemical Properties

- **Appearance:** White crystalline powder
- **Odor:** Odorless
- **pH:** 1.6 (5% aqueous solution)
- **Melting Point:** 100–102°C (decomposes)
- **Solubility:** Soluble in water, slightly soluble in ethanol
- **Density:** 1.665 g/cm³

10. Stability and Reactivity

- **Chemical Stability:** Stable under normal conditions
- **Conditions to Avoid:** Moisture, heat, incompatible materials
- **Incompatible Materials:** Strong oxidizing agents, strong bases
- **Hazardous Decomposition Products:** CO₂, CO upon heating

11. Toxicological Information

- **Acute Toxicity:** Low toxicity
- **Skin Irritation:** Mild irritation possible

- **Eye Irritation:** Causes irritation
 - **Chronic Effects:** No significant chronic effects reported
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12. Ecological Information

- **Ecotoxicity:** Low; biodegradable
 - **Persistence and Degradability:** Readily biodegradable
 - **Bioaccumulative Potential:** Low
 - **Mobility:** Soluble in water; may disperse in aquatic environments
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13. Disposal Considerations

- **Waste Treatment:** Dispose of in accordance with local, regional, and national regulations.
 - **Container Disposal:** Empty containers should be rinsed and disposed of responsibly.
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14. Transport Information (Detailed Information)

- **UN Number:** Not regulated
- **UN Proper Shipping Name:** Not classified as dangerous
- **Transport Hazard Class(es):** Not applicable
- **Packing Group:** Not applicable
- **Environmental Hazards:** Not classified as environmentally hazardous
- **Transport Precautions:**
 - Avoid generating dust during handling and transport
 - Keep containers tightly closed and protected from moisture
 - Store away from incompatible substances
 - Use suitable labeling during shipment
- **Transport Mode Considerations:**
 - **Road/Highway (ADR/RID):** No special restrictions

- **Air (IATA/ICAO):** Not regulated
- **Sea (IMDG):** Not regulated
- **Emergency Response:** In case of accidental release during transport, avoid contact with material, prevent dust formation, and follow local authority guidelines

15. Regulatory Information

- **GHS Label Elements:** Not classified
- **National Regulations:** Complies with local safety and environmental regulations
- **Food Grade Status:** Safe for use as a food additive (GRAS)

16. Other Information

- **Disclaimer:** The information contained herein is based on current knowledge and is intended to describe the product for safety purposes. It should not be construed as guaranteeing specific properties. Users should ensure proper use in accordance with applicable regulations and guidelines.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.