

Material Safety Data Sheet (MSDS)

Product Name: Citric Acid Monohydrate (Possy)

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 (Possy)
- **Synonyms:** 2-Hydroxy-1,2,3-propane-tricarboxylic acid monohydrate
- **Use:** Food additive, pharmaceutical excipient, cosmetic ingredient, and industrial applications.

2. Hazards Identification

- **Classification (GHS):**
 - Eye Irritation, Category 2A
- **Hazard Statements:**
 - Causes serious eye irritation.
- **Precautionary Statements:**
 - Avoid contact with eyes and skin.
 - Wear suitable protective equipment.

3. Composition / Information on Ingredients

- **Chemical Name:** Citric Acid Monohydrate
- **CAS No.:** 5949-29-1
- **EC No.:** 201-069-1
- **Molecular Formula:** $C_6H_8O_7 \cdot H_2O$
- **Purity:** $\geq 99\%$

4. First Aid Measures

- **Inhalation:** Move to fresh air. If symptoms persist, seek medical attention.
- **Skin Contact:** Wash with soap and water. Remove contaminated clothing.
- **Eye Contact:** Rinse cautiously with water for several minutes. Seek medical attention if irritation persists.
- **Ingestion:** Rinse mouth with water. Do not induce vomiting. Seek medical advice if unwell.

5. Firefighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, dry chemical, or CO_2 .
- **Specific Hazards:** May decompose under fire conditions to produce carbon oxides.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and protective clothing.

6. Accidental Release Measures

- Avoid dust formation.
- Sweep up and collect into suitable containers.
- Ventilate area and wash spill site after material pickup is complete.

7. Handling and Storage

- **Handling:** Avoid contact with eyes, skin, and clothing. Prevent dust formation.

- **Storage:** Store in tightly closed containers, in a cool, dry, and well-ventilated area. Protect from moisture.

8. Exposure Controls / Personal Protection

- **Engineering Controls:** Provide adequate ventilation.
- **Personal Protective Equipment:**
 - Safety goggles
 - Protective gloves
 - Dust mask/respirator
 - Protective clothing

9. Physical and Chemical Properties

- **Appearance:** White crystalline powder
- **Odor:** Odorless
- **Melting Point:** 153 °C (decomposes)
- **Solubility:** Soluble in water and ethanol
- **pH (1% solution):** ~2.2
- **Molecular Weight:** 210.14 g/mol

10. Stability and Reactivity

- **Stability:** Stable under recommended storage conditions.
- **Hazardous Reactions:** Reacts with strong bases and oxidizing agents.
- **Decomposition Products:** Carbon oxides.

11. Toxicological Information

- **Acute Toxicity:** LD50 (oral, rat): 3,000 mg/kg (approx.).
- **Irritation:** Causes eye irritation.
- **Chronic Effects:** Prolonged contact may cause skin dryness.

12. Ecological Information

- **Ecotoxicity:** Low toxicity to aquatic organisms.
- **Biodegradability:** Readily biodegradable.
- **Bioaccumulative Potential:** Not expected to bioaccumulate.

13. Disposal Considerations

- Dispose of in accordance with local, regional, and national regulations.
- Can be disposed of in landfill or incineration with other combustible materials.

14. Transport Information (Detailed)

- **UN Number:** Not regulated (non-hazardous for transport).
- **Proper Shipping Name:** Citric Acid Monohydrate
- **Transport Hazard Class:** Not classified as hazardous
- **Packing Group:** Not applicable
- **Labeling Requirements:** No hazard label required
- **Land Transport (ADR/RID):** Not restricted
- **Sea Transport (IMDG/IMO):** Not restricted; no marine pollutant
- **Air Transport (IATA/ICAO):** Not restricted
- **Special Precautions for User:**
 - Ensure packaging is secure and sealed to avoid spillage.
 - Keep away from moisture during transport.
 - Transport in original or approved containers.
- **Transport in Bulk According to Annex II of MARPOL and the IBC Code:** Not applicable, as the product is not dangerous.

15. Regulatory Information

- Classified according to EU Regulation (EC) No 1272/2008 (CLP).
- Not listed as a hazardous chemical under international transport regulations.
- Food-grade material approved by pharmacopeias (BP/USP/FCC).

16. Other Information

- The information provided is based on current knowledge and is intended to describe the product in terms of health, safety, and environmental requirements.
- It should not be construed as guaranteeing any specific property of the product.
- Users are responsible for ensuring compliance with local regulations.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.