

Material Safety Data Sheet (MSDS)

Product Name: Potassium Citrate Food Grade

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: Potassium Citrate

Grade: Food Grade

CAS No.: 6100-05-6

Molecular Formula: $K_3C_6H_5O_7$

Molecular Weight: 306.39 g/mol

Recommended Use: Food additive, acidity regulator, buffering agent, nutritional supplement.

2. Hazards Identification

- Not classified as hazardous according to GHS.
- **Non-toxic**, food-grade material.
- **Routes of Exposure:** Inhalation, skin contact, eye contact, ingestion.
- **Potential Health Effects:**
 - **Eyes:** May cause mild irritation.
 - **Skin:** Non-irritating; may cause dryness with prolonged exposure.

- **Inhalation:** Dust may cause respiratory irritation.
- **Ingestion:** Safe in food-grade applications; large doses may cause gastrointestinal discomfort.

3. Composition / Information on Ingredients

Potassium Citrate (Food Grade), CAS No. 6100-05-6, with a purity level of **minimum 99%**.

4. First Aid Measures

- **Inhalation:** Move to fresh air; seek medical attention if irritation persists.
- **Skin Contact:** Wash with water; apply moisturizer if dryness occurs.
- **Eye Contact:** Rinse thoroughly with water for 15 minutes; seek medical advice if irritation continues.
- **Ingestion:** Rinse mouth; drink water; non-toxic in typical quantities.

5. Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, dry powder, CO₂, foam.
- **Hazards:** Non-flammable; decomposes at high temperatures releasing CO₂.
- **Protective Gear:** Standard firefighting equipment.

6. Accidental Release Measures

- Avoid dust formation.
- Sweep and collect into suitable containers.
- Ventilate area if dusty.
- Avoid discharge into drains.

7. Handling and Storage

- **Handling:** Avoid generating dust; use with adequate ventilation.
- **Storage:** Store in a cool, dry area away from moisture. Keep container tightly closed.

8. Exposure Controls / Personal Protection

- **Exposure Limits:** Not established.
- **Respiratory Protection:** Dust mask if dust is generated.
- **Eye Protection:** Safety goggles recommended.
- **Hand Protection:** Not required; gloves may be used for hygiene.
- **Ventilation:** Local exhaust recommended in dusty conditions.

9. Physical and Chemical Properties

- **Appearance:** White crystalline powder
- **Odor:** Odorless
- **Taste:** Saline
- **Melting Point:** Decomposes above ~300°C
- **Solubility:** Freely soluble in water
- **pH (5% solution):** 7.5–9.0
- **Bulk Density:** 0.8–1.0 g/cm³

10. Stability and Reactivity

- **Stability:** Stable under normal conditions.
- **Incompatible Materials:** Strong acids (may release citric acid).
- **Hazardous Decomposition:** CO₂ at high temperatures.
- **Reactivity:** Non-reactive under normal conditions.

11. Toxicological Information

- **Acute Toxicity:** Low—non-toxic food-grade product.
- **Skin/Eye Irritation:** Mild irritation possible.
- **Carcinogenicity:** Not carcinogenic.
- **Mutagenicity / Reproductive Toxicity:** No data indicating harmful effects.

12. Ecological Information

- Low environmental hazard.
- Biodegradable components.
- **Not expected to bioaccumulate.**
- Large releases may affect aquatic pH temporarily.

13. Disposal Considerations

- Dispose of according to local regulations.
- Not a hazardous waste.
- Avoid release into sewage systems in large quantities.

14. Transport Information (DETAILED)

UN Number: Not applicable – product is **non-hazardous**

UN Proper Shipping Name: Not regulated

Transport Hazard Class: Not classified as dangerous goods

Packing Group: Not applicable

Environmental Hazards: None

Transport Labels Required: None

Special Precautions:

- Ensure packaging is sealed to prevent moisture absorption.
- Avoid breakage of bags during transport.
- Protect from rain or water exposure.
- Avoid storing near corrosive chemicals or strong acids during transport.

Mode-wise Classification:

• **Road Transport (ADR/RID):**

- Not regulated as hazardous material.
- Safe for bulk and packaged transportation.

• **Sea Transport (IMDG):**

- Non-dangerous goods.

- No marine pollutant labeling required.
- Store away from liquids to avoid wetting.

• **Air Transport (IATA):**

- Not restricted.
- Can be transported on passenger and cargo aircraft.
- Standard packaging requirements apply.

• **Inland Waterways:**

- Not classified as hazardous.
- No transport restrictions.

Conclusion:

Potassium Citrate Food Grade is **safe and non-regulated** under all major transport regulations.

15. Regulatory Information

- Not hazardous under GHS.
 - Approved for food use (as per various international food additive regulations).
 - No special regulatory restrictions.
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16. Other Information

- This MSDS is issued for food-grade use only.
- Users should ensure suitability for specific applications.
- Information is believed to be correct but does not claim legal responsibility.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.