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Material Safety Data Sheet (MSDS)

Product Name: Potassium Citrate IP 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 IP Grade

Synonyms: Tripotassium citrate, Potassium salt of citric acid

Chemical Formula: $C_6H_5K_3O_7 \cdot H_2O$

Molecular Weight: 324.41 g/mol

CAS No.: 6100-05-6

2. Composition / Information on Ingredients

Chemical Name: Potassium Citrate

Purity: ≥ 99%

Grade: IP (Indian Pharmacopoeia)

Components: Potassium Citrate Monohydrate – 100%

3. Hazards Identification

- **Classification:** Not hazardous under normal conditions of handling.
- **GHS Classification:** Not classified as hazardous.
- **Potential Health Effects:**
    - **Eye Contact:** May cause mild irritation.
    - **Skin Contact:** Generally non-irritating.
    - **Inhalation:** Dust may cause mild respiratory irritation.
    - **Ingestion:** May cause mild gastrointestinal discomfort in large quantities.
- **Environmental Hazards:** Not expected to be hazardous to the environment.

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4. First Aid Measures

- **Eye Contact:** Rinse thoroughly with water for at least 15 minutes. Seek medical advice if irritation persists.
- **Skin Contact:** Wash with soap and water. Remove contaminated clothing.
- **Inhalation:** Move to fresh air. If breathing difficulty occurs, seek medical attention.
- **Ingestion:** Rinse mouth and drink plenty of water. Seek medical advice if large amounts are ingested.

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5. Fire Fighting Measures

- **Flammability:** Non-flammable.
- **Suitable Extinguishing Media:** Use water spray, dry chemical powder, or CO_2.
- **Special Protective Equipment:** Firefighters should wear protective gear and self-contained breathing apparatus if large quantities are involved.
- **Hazardous Decomposition Products:** Carbon oxides and potassium oxides may form upon combustion.

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6. Accidental Release Measures

- **Personal Precautions:** Avoid dust formation. Use protective equipment.
- **Environmental Precautions:** Prevent entry into drains or waterways.

- **Cleanup Methods:** Sweep up and collect into a suitable container for disposal. Avoid generating dust.

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7. Handling and Storage

- **Handling:** Handle in accordance with good industrial hygiene. Avoid inhalation of dust.
- **Storage:** Store in a tightly closed container, in a cool, dry, and well-ventilated place away from moisture and incompatible substances.

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8. Exposure Controls / Personal Protection

- **Exposure Limits:** Not established.
- **Engineering Controls:** Provide adequate ventilation.
- **Personal Protective Equipment:**
    - **Respiratory Protection:** Use dust mask if airborne dust is present.
    - **Eye Protection:** Safety goggles.
    - **Skin Protection:** Gloves and protective clothing.

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9. Physical and Chemical Properties

- **Appearance:** White crystalline powder
- **Odor:** Odorless
- **Solubility:** Freely soluble in water
- **pH (1% solution):** 7.5 – 9.0
- **Melting Point:** Decomposes above 230°C
- **Boiling Point:** Not applicable
- **Density:** 1.98 g/cm³
- **Moisture Content:** ≤ 5%

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10. Stability and Reactivity

- **Stability:** Stable under normal conditions.

- **Incompatible Materials:** Strong acids and strong oxidizing agents.
- **Hazardous Decomposition Products:** Carbon oxides, potassium oxides.
- **Conditions to Avoid:** Excessive heat, moisture, and dust generation.

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11. Toxicological Information

- **Acute Toxicity:** LD50 (oral, rat): > 2000 mg/kg (low toxicity)
- **Skin Irritation:** Non-irritant
- **Eye Irritation:** Mild irritant
- **Carcinogenicity:** Not listed as carcinogenic by IARC, NTP, or OSHA.
- **Mutagenicity / Teratogenicity:** No data indicating mutagenic or teratogenic effects.

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12. Ecological Information

- **Eco-toxicity:** Non-toxic to aquatic organisms.
- **Biodegradability:** Readily biodegradable.
- **Bioaccumulation:** Not expected to bioaccumulate.
- **Mobility in Soil:** High solubility in water; may leach in soil.

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13. Disposal Considerations

- Dispose of in accordance with local, regional, and national regulations.
- Can be dissolved in water and flushed in small quantities.
- Avoid release into environment in large quantities.

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14. Transport Information (Detailed)

UN Number: Not regulated

UN Proper Shipping Name: Potassium Citrate

Transport Hazard Class: Non-hazardous (Not classified as dangerous goods)

Packing Group: Not applicable

Environmental Hazards: Not considered environmentally hazardous.

Special Precautions for User: None required under normal transport conditions.

Detailed Mode-Specific Information:

- **By Road (ADR/RID):** Not regulated as hazardous; transport in well-sealed containers to prevent moisture exposure.
- **By Air (IATA):** Not restricted. Ensure packaging prevents leakage and dust emission.
- **By Sea (IMDG):** Non-dangerous; no special labeling required.
- **Transport Temperature:** Ambient.
- **Packaging Recommendation:** Use moisture-resistant HDPE bags or fiber drums with inner liners.
- **Emergency Transport Procedure:** In case of spillage, avoid dust generation and collect using mechanical means. Dispose of as per Section 13.

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15. Regulatory Information

- **Regulation Compliance:** IP Grade, conforms to Indian Pharmacopoeia standards.
- **GHS Labeling:** Not applicable (non-hazardous).
- **TSCA / EINECS Status:** Listed.
- **Other Regulations:** Not classified as hazardous under any international transport or chemical safety regulations.

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16. Other Information

References:

- Indian Pharmacopoeia (IP) Standards
- European Chemicals Agency (ECHA) Data
- OSHA Hazard Communication Standard (29 CFR 1910.1200)

Disclaimer: The information above is believed to be accurate and represents the best data available as of the revision date.

- **MSDS Generate Date:** 20-05-2017

- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer’s provided information.