

Material Safety Data Sheet (MSDS)

Product Name: Potassium Chloride 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 of the Company

Product Name: Potassium Chloride Food Grade

CAS No.: 7447-40-7

EINECS No.: 231-211-8

Molecular Formula: KCl

Molecular Weight: 74.55 g/mol

Recommended Use: Food additive, electrolyte replenisher, nutritional supplement,
pharmaceutical use.

2. Hazards Identification

- Not classified as hazardous under GHS.
- Potential health effects: May cause irritation to eyes, skin, or gastrointestinal tract in high concentrations.
- Environmental hazards: Not expected to cause significant environmental impact under normal use.

3. Composition / Information on Ingredients

- **Chemical Name:** Potassium Chloride
- **Purity:** $\geq 99.0\%$ (Food Grade)
- **Impurities:** Within permissible food-grade limits

4. First Aid Measures

- **Inhalation:** Move to fresh air. Seek medical attention if symptoms persist.
- **Skin Contact:** Wash with water. If irritation persists, seek medical advice.
- **Eye Contact:** Rinse with water for at least 15 minutes. Seek medical attention if irritation persists.
- **Ingestion:** Rinse mouth and drink water. Do not induce vomiting. Get medical help if large amounts are ingested.

5. Fire Fighting Measures

- Non-combustible.
- Suitable extinguishing media: Use extinguishing media appropriate for surrounding fire.
- Hazardous decomposition: Emits toxic fumes of potassium oxides when heated strongly.
- Protective equipment: Wear self-contained breathing apparatus.

6. Accidental Release Measures

- Sweep up and collect in a suitable container.
- Avoid generating dust.
- Wash area with water.

7. Handling and Storage

- Handle in accordance with good hygiene practices.
- Avoid inhalation of dust.

- Store in a cool, dry place away from moisture.
- Keep container tightly closed.

8. Exposure Controls / Personal Protection

- **Engineering controls:** Provide adequate ventilation.
- **Respiratory protection:** Use dust mask if exposure limits are exceeded.
- **Eye protection:** Safety goggles recommended.
- **Skin protection:** Gloves and protective clothing.

9. Physical and Chemical Properties

- Appearance: White crystalline solid
- Odor: Odorless
- Solubility: Soluble in water
- Melting Point: 770 °C
- Density: 1.98 g/cm³
- pH (5% solution): ~7

10. Stability and Reactivity

- Stable under normal conditions.
- Incompatible with: Strong acids, strong oxidizers.
- Hazardous decomposition: Potassium oxides.

11. Toxicological Information

- LD50 Oral (Rat): ~3020 mg/kg
- Inhalation: May cause respiratory tract irritation.
- Skin: May cause slight irritation on prolonged contact.
- Eyes: Dust may cause irritation.

12. Ecological Information

- Ecotoxicity: Low environmental hazard.
- Mobility: Readily soluble in water.
- Persistence/Degradability: Inorganic compound, does not biodegrade.

13. Disposal Considerations

- Dispose of in accordance with local regulations.
- Can be disposed of as non-hazardous waste.

14. Transport Information (Detailed)

UN Number: Not regulated (Non-hazardous for transport).

UN Proper Shipping Name: Potassium Chloride

Transport Hazard Class(es): Not classified as dangerous goods.

Packing Group: Not applicable

Environmental Hazards: Not considered environmentally hazardous.

Special Precautions for User:

- Avoid spillage and dust generation during loading/unloading.
- Ensure packaging is intact to prevent contamination.

Transport in Bulk According to IMO/IMDG:

- **IMDG Code:** Not regulated.
- **Marine Pollutant:** No.

Transport by Air (IATA):

- Not classified as dangerous goods.
- No restrictions apply.

Transport by Road/Rail (ADR/RID):

- Not classified as hazardous.

Remarks: Potassium Chloride is safe for shipment under all major transport regulations (ADR, IMDG, IATA). It can be shipped in standard packaging without special labeling requirements, provided food-grade storage and handling precautions are followed.

15. Regulatory Information

- Complies with Codex Alimentarius standards for Food Grade Potassium Chloride.
- Not classified as hazardous under OSHA, EU CLP, or GHS.

16. Other Information

The information provided is accurate to the best of our knowledge as of the revision date. It is intended as guidance for safe handling, storage, transport, and disposal of the product.

- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.