

Material Safety Data Sheet (MSDS)

Product Name: Calcium Chloride Dihydrate BP 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:** Calcium Chloride Dihydrate BP Grade
- **Chemical Name:** Calcium Chloride Dihydrate
- **CAS No.:** 10035-04-8
- **Molecular Formula:** $\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$
- **Molecular Weight:** 147.02 g/mol
- **Recommended Use:** Pharmaceutical excipient, electrolyte replenisher, laboratory reagent

2. Hazard Identification

- Classification: Not classified as hazardous under GHS
- May cause mild irritation to eyes, skin, and respiratory tract
- Hygroscopic substance; absorbs moisture from air

3. Composition / Information on Ingredients

- **Substance:** Calcium Chloride Dihydrate
- **Purity:** BP Grade
- **Content:** ≥ 99.0%

4. First Aid Measures

- **Eye Contact:** Rinse immediately with plenty of 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. Seek medical attention if symptoms occur.
- **Ingestion:** Rinse mouth with water. Do not induce vomiting. Consult a physician.

5. Fire Fighting Measures

- **Flammable:** No
- **Suitable Extinguishing Media:** Water spray, CO₂, dry chemical powder
- **Special Hazards:** Emits irritating fumes when heated strongly
- **Protective Equipment:** Self-contained breathing apparatus

6. Accidental Release Measures

- Avoid dust formation
- Collect spilled material using clean, dry tools
- Dispose according to local regulations

7. Handling and Storage

- Handle in a well-ventilated area
- Avoid contact with eyes and skin
- Store in a tightly closed container in a cool, dry place

- Protect from moisture and humidity

8. Exposure Controls / Personal Protection

- **Engineering Controls:** Adequate ventilation
- **Personal Protective Equipment:**
 - Gloves: Chemical-resistant gloves
 - Eye Protection: Safety goggles
 - Respiratory Protection: Dust mask if necessary

9. Physical and Chemical Properties

- **Appearance:** White crystalline powder or granules
- **Odor:** Odorless
- **Solubility:** Freely soluble in water
- **pH (5% solution):** 4.5 – 9.5
- **Melting Point:** ~175°C (decomposes)

10. Stability and Reactivity

- **Stability:** Stable under normal conditions
- **Conditions to Avoid:** Moisture, excessive heat
- **Incompatible Materials:** Strong acids, oxidizing agents
- **Hazardous Decomposition Products:** Hydrogen chloride fumes

11. Toxicological Information

- Low toxicity under normal use
- Prolonged exposure may cause irritation
- No known carcinogenic or mutagenic effects

12. Ecological Information

- Not expected to be hazardous to the environment
 - High concentrations may affect aquatic life due to salinity
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13. Disposal Considerations

- Dispose of in accordance with local, regional, and national regulations
 - Do not discharge large quantities into drains or water bodies
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14. Transport Information (Detailed)

- **UN Number:** Not assigned
- **UN Proper Shipping Name:** Calcium Chloride Dihydrate
- **Transport Hazard Class:** Not classified as dangerous goods
- **Packing Group:** Not applicable

Transport Regulations:

- **ADR/RID (Road/Rail):** Not regulated
- **IMDG (Sea Transport):** Not regulated
- **IATA (Air Transport):** Not regulated

Special Transport Precautions:

- Protect packages from moisture during transit
- Ensure containers are tightly sealed
- Avoid exposure to rain and humid conditions
- Transport in clean, dry vehicles

Environmental Hazards:

- No marine pollutant classification
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15. Regulatory Information

- Complies with BP (British Pharmacopoeia) specifications
- Not listed as a controlled or hazardous substance

16. Other Information

The information provided in this MSDS is based on current knowledge and is intended for guidance on safe handling, storage, and disposal. It does not constitute a guarantee of product properties.

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