

Material Safety Data Sheet (MSDS)

Product Name: Calcium Sulphate Dihydrate Food Grade

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

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1. Identification of the Substance/Preparation and Company

Product Name: Calcium Sulphate Dihydrate – Food Grade

Synonyms: Gypsum; Plaster of Paris (when anhydrous)

Intended Use: Used as a food additive, firming agent, dough conditioner, and dietary calcium source.

2. Hazard Identification

Classification: Non-hazardous under normal handling and usage conditions.

Hazard Statement: Not classified as hazardous according to GHS.

Potential Health Effects:

- **Eye Contact:** May cause slight mechanical irritation.
- **Skin Contact:** Prolonged contact may cause dryness.
- **Inhalation:** Dust may cause temporary irritation of respiratory tract.

- **Ingestion:** Considered safe in food-grade use; large quantities may cause mild gastrointestinal discomfort.

3. Composition / Information on Ingredients

Chemical Name: Calcium Sulphate Dihydrate

CAS Number: 10101-41-4

Purity: ≥ 99% (Food Grade)

Nature of Product: Inorganic compound, non-toxic and stable under normal conditions.

4. First Aid Measures

- **Eye Contact:** Rinse with plenty of water for several minutes. Seek medical attention if irritation persists.
- **Skin Contact:** Wash with soap and water.
- **Inhalation:** Move to fresh air. If irritation persists, seek medical advice.
- **Ingestion:** Rinse mouth with water; drink water to dilute. Seek medical advice if discomfort occurs.

5. Fire Fighting Measures

- **Flammability:** Non-flammable.
- **Extinguishing Media:** Use extinguishing agent suitable for surrounding materials.
- **Fire/Explosion Hazards:** None known.
- **Protective Equipment:** Use standard protective equipment for chemical fires.

6. Accidental Release Measures

- **Personal Precautions:** Avoid dust formation. Use mask or respirator if necessary.
- **Environmental Precautions:** Avoid discharge into drains or surface water.
- **Cleanup Methods:** Sweep up and collect in suitable containers for disposal.

7. Handling and Storage

- **Handling:** Avoid creating dust. Use in well-ventilated areas.
 - **Storage:** Store in a cool, dry place away from moisture and incompatible materials. Keep container tightly closed.
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8. Exposure Controls / Personal Protection

- **Exposure Limits:** No specific limits established.
 - **Engineering Controls:** Provide adequate ventilation.
 - **Personal Protection:**
 - **Respiratory:** Dust mask if airborne particles are generated.
 - **Skin:** Gloves recommended for prolonged contact.
 - **Eye:** Safety goggles if dust is generated.
 - **Hygiene Measures:** Wash hands after handling.
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9. Physical and Chemical Properties

Appearance: White crystalline powder

Odor: Odorless

Solubility: Slightly soluble in water

pH (in 10% solution): 6.0–8.0

Melting Point: Decomposes on heating (loss of water at ~128°C)

Specific Gravity: 2.32

Bulk Density: 0.85–1.0 g/cm³

Stability: Stable under normal conditions

10. Stability and Reactivity

- **Stability:** Stable under normal storage and handling.
- **Conditions to Avoid:** Excessive heat and moisture.
- **Incompatible Materials:** Strong acids may react to release calcium salts.
- **Decomposition Products:** Sulfur oxides and calcium oxides at high temperatures.

11. Toxicological Information

- **Acute Toxicity:** Non-toxic in normal food-grade use.
- **Skin Irritation:** Not classified as irritant.
- **Eye Irritation:** Slight mechanical irritation possible.
- **Chronic Effects:** No known chronic effects.
- **LD50 (oral, rat):** > 5000 mg/kg

12. Ecological Information

- **Ecotoxicity:** Not expected to pose environmental hazard.
- **Persistence/Degradability:** Inorganic substance; stable in environment.
- **Bioaccumulation:** No bioaccumulation potential.
- **Mobility:** Low mobility in soil and water.

13. Disposal Considerations

- Dispose of in accordance with local, regional, and national regulations.
- Non-hazardous waste; can be disposed of as general solid waste.

14. Transport Information

UN Number: Not applicable (Non-hazardous material).

UN Proper Shipping Name: Calcium Sulphate Dihydrate

Transport Hazard Class: Not classified as hazardous for transport.

Packing Group: Not applicable

Label Required: None

Transport Regulations:

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

- **ICAO (International Civil Aviation Organization):** Not regulated

Environmental Hazards:

- Product is not considered a marine pollutant.

Special Precautions for Transport:

- Avoid moisture during transit; keep containers tightly sealed.
- Transport in clean, dry, covered vehicles.
- Ensure packages are properly labeled and secured to prevent spillage.
- Avoid transporting with strong acids or reactive chemicals.

Bulk Transport:

- Not applicable for bulk under MARPOL Annex II or IBC Code.

15. Regulatory Information

- **Regulatory Status:** Not classified as hazardous under GHS or international chemical inventories.
- **Food Grade Compliance:** Meets specifications for food-grade calcium sulphate under FCC and EINECS standards.

16. Other Information

Disclaimer:

The information provided herein is based on current knowledge and experience. It is intended as guidance for safe handling, use, processing, and storage.

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