

Material Safety Data Sheet (MSDS)

Product Name: Calcium Sulphate Feed 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 Sulphate Feed Grade

Chemical Name: Calcium Sulphate

Synonyms: Gypsum, Dried Calcium Sulphate, Calcium Sulphate Dihydrate (Feed Grade)

Molecular Formula: $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$

Molecular Weight: 172.17 g/mol

CAS No.: 7778-18-9

EINECS No.: 231-900-3

Recommended Use: Nutritional feed supplement, source of calcium and sulfur in animal feed.

2. Hazards Identification

Classification (According to GHS): Not classified as hazardous.

Hazard Statement: Non-hazardous substance.

Precautionary Statement: Avoid inhalation of dust. Avoid contact with eyes.

Potential Health Effects:

- **Inhalation:** Prolonged inhalation of dust may cause irritation of the respiratory tract.
- **Skin Contact:** May cause minor irritation on prolonged contact.
- **Eye Contact:** May cause mechanical irritation.
- **Ingestion:** Non-toxic; excessive intake may cause mild gastrointestinal irritation.

3. Composition / Information on Ingredients

This product consists primarily of Calcium Sulphate ($\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$) with a purity of 98% or higher. It may contain minor natural impurities ($\leq 2\%$) that do not affect product safety or performance.

4. First Aid Measures

Inhalation: Move the exposed person to fresh air. Seek medical attention if irritation persists.

Skin Contact: Wash with soap and water. Remove contaminated clothing.

Eye Contact: Flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.

Ingestion: Rinse mouth with water. Give water to drink. Seek medical attention if symptoms occur.

5. Fire-Fighting Measures

Suitable Extinguishing Media: Product is non-flammable; use extinguishing media appropriate for surrounding fire.

Specific Hazards: None known.

Protective Equipment for Firefighters: Use standard protective gear; no special requirements.

6. Accidental Release Measures

Personal Precautions: Avoid creating dust. Use protective mask and gloves.

Environmental Precautions: Non-hazardous; prevent excessive spillage into drains or waterways.

Methods for Cleaning Up: Sweep or vacuum without creating dust. Place in suitable

containers for disposal.

7. Handling and Storage

Handling: Avoid breathing dust. Use with adequate ventilation. Avoid eye and skin contact.

Storage: Store in a dry, cool, well-ventilated area. Keep container tightly closed. Protect from moisture.

8. Exposure Controls / Personal Protection

Occupational Exposure Limits:

- TLV (Total Dust): 10 mg/m³ (TWA, ACGIH)

Personal Protective Equipment:

- **Respiratory Protection:** Use dust mask (N95 or equivalent).
 - **Eye Protection:** Safety goggles.
 - **Skin Protection:** Gloves and protective clothing.
 - **Ventilation:** Use adequate local exhaust ventilation.
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9. Physical and Chemical Properties

Calcium Sulphate Feed Grade is a white crystalline, odorless powder. It has a pH of approximately 6.0 to 8.0 in a 10% aqueous suspension. It is slightly soluble in water (0.21 g/100 mL at 20°C) and has a density of about 2.3 to 2.4 g/cm³ with a bulk density of 0.8 to 1.1 g/cm³. The product decomposes above 1450°C and contains a moisture level of not more than 0.5%.

10. Stability and Reactivity

Stability: Stable under normal conditions.

Conditions to Avoid: Excess moisture and extreme heat.

Incompatible Materials: Strong acids; may release sulfur dioxide.

Hazardous Decomposition Products: Sulfur oxides (SO_x) under extreme heating.

11. Toxicological Information

Acute Toxicity: Non-toxic.

LD50 (oral, rat): > 3000 mg/kg

Skin & Eye Irritation: Mild mechanical irritation possible.

Sensitization: Not a sensitizer.

Carcinogenicity / Mutagenicity / Teratogenicity: Not classified.

12. Ecological Information

Ecotoxicity: Non-toxic to aquatic life.

Persistence and Degradability: Inorganic compound, non-degradable.

Bioaccumulation: No bioaccumulation potential.

Mobility in Soil: Low mobility; insoluble in water.

13. Disposal Considerations

Waste Disposal Methods: Dispose of in accordance with local and national regulations.

Packaging Disposal: Recycle or dispose of packaging safely after removing residue.

14. Transport Information (Detailed)

UN Number: Not applicable – Non-hazardous material.

UN Proper Shipping Name: Calcium Sulphate Feed Grade

Transport Hazard Class: Not classified as dangerous for transport.

Packing Group: Not applicable.

Label Required: None (Non-hazardous).

Marine Pollutant: No

Special Precautions:

- Ensure packaging is properly sealed to avoid dust release during transit.
- Transport in covered vehicles to protect from moisture contamination.
- Avoid mixing with acids or hygroscopic materials during transportation.
- Handle with care to prevent bag damage and spillage.

Transport Mode Specific Guidance:

- **Road Transport (ADR/RID):** Not regulated.
- **Sea Transport (IMDG):** Not regulated.
- **Air Transport (ICAO/IATA):** Not regulated.
- **Inland Waterways (ADN):** Not regulated.

Remarks:

Calcium Sulphate Feed Grade is considered safe and stable under normal transportation conditions. Ensure good industrial hygiene practices during loading and unloading.

15. Regulatory Information

Regulation Compliance:

- Not classified as hazardous under the EU CLP Regulation (EC) No. 1272/2008.
- Listed on the TSCA and EINECS inventories.
- FSSAI compliant as a permitted feed additive.

16. Other Information

Disclaimer:

The information provided in this MSDS is believed to be accurate and reliable to the best of our knowledge at the time of issue. However, no warranty or guarantee, expressed or implied, is made regarding its accuracy or completeness. Users are responsible for ensuring that their activities comply with applicable regulations.

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