

Material Safety Data Sheet (MSDS)

Product Name: Calcium Sulphate Anhydrous USP 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 Anhydrous USP Grade

Synonyms: Anhydrite, Drierite, Desiccant Grade Calcium Sulphate

Chemical Formula: CaSO_4

CAS Number: 7778-18-9

Recommended Use: Pharmaceutical excipient, drying agent, laboratory reagent, food additive
(where applicable)

2. Hazard Identification

Classification according to Regulation (EC) No 1272/2008 (CLP): Not classified as hazardous.

Hazard Statements:

Not considered hazardous under normal use. May cause mild irritation to eyes, skin, or respiratory system due to dust formation.

Precautionary Statements:

Avoid breathing dust. Use personal protective equipment if dust is generated. Wash hands after handling.

3. Composition / Information on Ingredients

Chemical Name: Calcium Sulphate Anhydrous

CAS No.: 7778-18-9

EINECS No.: 231-900-3

Purity: ≥ 99%

Molecular Weight: 136.14 g/mol

4. First Aid Measures

Inhalation: Move to fresh air. If irritation persists, seek medical advice.

Skin Contact: Wash thoroughly with water. Seek medical attention if irritation occurs.

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

Ingestion: Rinse mouth with water. Obtain medical attention if symptoms occur.

5. Fire Fighting Measures

Suitable Extinguishing Media: Product is non-combustible. Use extinguishing media suitable for surrounding fire.

Special Hazards: None known. Decomposition may produce sulfur oxides under extreme heat.

Protective Equipment: Firefighters should wear protective clothing and self-contained breathing apparatus if needed.

6. Accidental Release Measures

Personal Precautions: Avoid dust formation. Use protective equipment.

Environmental Precautions: Avoid release into drains or waterways.

Methods for Cleaning Up: Sweep up and place into suitable containers for disposal. Avoid generating dust.

7. Handling and Storage

Handling: Avoid creating dust and use in a well-ventilated area.

Storage: Store in a cool, dry, well-ventilated area. Keep container tightly closed. Avoid contact with moisture and incompatible materials.

8. Exposure Controls / Personal Protection

Exposure Limits:

OSHA PEL (TWA): 15 mg/m³ (total dust)

ACGIH TLV: 10 mg/m³ (inhalable particulate matter)

Personal Protective Equipment:

Use dust mask or respirator (P2 type), safety goggles, gloves, and a lab coat. Wash hands thoroughly after handling.

9. Physical and Chemical Properties

Calcium Sulphate Anhydrous is a white or off-white fine powder, odorless in nature. It has a pH range of 6.0 to 8.0 (10% solution). The melting point is above 1450°C where it decomposes. It is slightly soluble in water and has a density of approximately 2.96 g/cm³. The product is stable under normal conditions and does not have a boiling point or flash point as it is non-volatile and non-flammable. The vapor pressure is negligible and the compound remains chemically stable in dry environments.

10. Stability and Reactivity

Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Moisture, strong acids.

Incompatible Materials: Aluminum, acids, strong reducing agents.

Hazardous Decomposition Products: Sulfur oxides and calcium oxide under extreme heat.

11. Toxicological Information

Acute Toxicity: Non-toxic under normal use.

Inhalation: May cause mild irritation of respiratory tract.

Skin Contact: Prolonged contact may cause mild irritation.

Eye Contact: Dust may cause mechanical irritation.

Ingestion: May cause slight irritation to digestive tract.

Chronic Effects: None known.

Carcinogenicity: Not classified as carcinogenic (IARC, NTP, OSHA).

12. Ecological Information

Ecotoxicity: Non-toxic to aquatic and terrestrial organisms.

Persistence and Degradability: Inorganic substance, stable in the environment.

Bioaccumulative Potential: No bioaccumulation expected.

Mobility in Soil: Low mobility in soil.

13. Disposal Considerations

Dispose of in accordance with local, regional, and national regulations. The material is non-hazardous but should be handled responsibly. Containers may be reused or recycled after proper cleaning. Avoid releasing the material into the environment.

14. Transport Information

Calcium Sulphate Anhydrous is not regulated as a hazardous material under any transport regulation. It does not have a UN number or classification since it is non-toxic and non-flammable. The product is not assigned a packing group and has no transport hazard class. It is safe for transportation by road, rail, sea, or air under ADR, RID, IMDG, and IATA codes. There are no special environmental hazards or precautions required other than preventing moisture ingress and minimizing dust generation during handling. The material is not listed under MARPOL Annex II or the IBC Code for bulk transport.

15. Regulatory Information

Calcium Sulphate Anhydrous is not classified as hazardous according to Regulation (EC) No. 1272/2008. It is not listed as a controlled substance under international inventories. The product complies with USP specifications for pharmaceutical use.

16. Other Information

Disclaimer:

The information provided above is believed to be accurate and represents the best data currently available. Users should make their own investigation to determine the suitability of the information for their particular purposes.

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