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CIN: U24230GJ2011PTC064654

Material Safety Data Sheet (MSDS)

Product Name: Chalk BP Grade (Calcium Carbonate)

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Manufacturer / Supplier:

SBF Pharma

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1. Identification of the Substance/Preparation and of the Company

Product Name: Chalk BP Grade (Calcium Carbonate)

Chemical Name: Calcium Carbonate

Synonyms: Precipitated Calcium Carbonate, Natural Calcium Carbonate, Pharmaceutical Grade Calcium Carbonate, Chalk

Chemical Formula: CaCO_3

CAS Number: 471-34-1

EC Number: 207-439-9

Grade: BP Grade

Recommended Uses:

- Pharmaceutical excipient
- Calcium supplement formulations
- Antacid preparations
- Tablet and capsule manufacturing
- Food and nutraceutical applications

2. Hazard Identification

GHS Classification: Not classified as hazardous according to the Globally Harmonized System (GHS).

Label Elements

Signal Word: None

Hazard Statements: Not considered hazardous under normal conditions of handling and use.

Potential Health Effects

Eye Contact: Dust may cause temporary irritation, redness, and discomfort.

Skin Contact: May cause slight dryness after prolonged exposure.

Inhalation: Excessive inhalation of dust may cause irritation of the nose, throat, and respiratory tract.

Ingestion: Low toxicity. Large quantities may cause gastrointestinal discomfort.

Environmental Hazards: Not considered environmentally hazardous.

3. Composition / Information on Ingredients

Substance Name: Calcium Carbonate

Chemical Formula: CaCO_3

CAS Number: 471-34-1

EC Number: 207-439-9

Purity: Not less than 98.0%

Grade: BP Grade

Hazardous Components: None

4. First Aid Measures

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

Skin Contact: Wash exposed skin thoroughly with soap and water.

Inhalation: Move affected person to fresh air. Obtain medical attention if symptoms continue.

Ingestion: Rinse mouth with water. Drink water if conscious. Seek medical advice if large amounts are ingested.

Most Important Symptoms: Temporary irritation of eyes, nose, throat, or respiratory tract due to dust exposure.

5. Fire Fighting Measures

Suitable Extinguishing Media

- Water spray
- Foam
- Carbon dioxide (CO₂)
- Dry chemical powder

Specific Hazards

The product is non-combustible and does not support combustion.

When heated above approximately 825°C, calcium carbonate decomposes to form:

- Calcium Oxide (CaO)
- Carbon Dioxide (CO₂)

Protective Equipment for Firefighters

Use self-contained breathing apparatus and appropriate protective clothing.

6. Accidental Release Measures

Personal Precautions: Avoid breathing dust and avoid generating airborne particles.

Environmental Precautions: Prevent excessive discharge into drains and waterways.

Methods for Cleaning Up: Sweep, vacuum, or collect mechanically and transfer into suitable containers for reuse or disposal.

7. Handling and Storage

Handling

- Avoid generating dust.
- Ensure adequate ventilation.
- Follow good industrial hygiene practices.
- Avoid contact with eyes.

Storage

- Store in tightly closed containers.

- Keep in a cool, dry, and well-ventilated area.
- Protect from moisture and contamination.
- Keep away from strong acids.

8. Exposure Controls / Personal Protection

Engineering Controls: Use local exhaust ventilation where dust is generated.

Personal Protective Equipment

Eye Protection: Safety glasses or chemical safety goggles.

Hand Protection: Protective gloves.

Respiratory Protection: Dust mask or approved particulate respirator when airborne dust levels are excessive.

Skin Protection: Suitable protective clothing.

Hygiene Measures: Wash hands thoroughly after handling.

9. Physical and Chemical Properties

Appearance: White fine powder

Odor: Odorless

Physical State: Solid powder

pH (10% Suspension): 8.0 – 10.0

Relative Density: 2.70 – 2.95 g/cm³

Bulk Density: 0.70 – 1.10 g/ml

Water Solubility: Practically insoluble

Solubility in Dilute Acids: Soluble with effervescence

Melting Point: Not applicable

Decomposition Temperature: Approximately 825°C

Flash Point: Not applicable

Auto-Ignition Temperature: Not applicable

Explosive Properties: Not explosive

Oxidizing Properties: Not oxidizing

10. Stability and Reactivity

Stability: Stable under normal storage and handling conditions.

Conditions to Avoid

- Excessive heat
- Moisture
- Dust formation

Incompatible Materials: Strong acids.

Hazardous Decomposition Products: Calcium oxide and carbon dioxide.

Hazardous Polymerization: Will not occur.

11. Toxicological Information

Acute Toxicity: Low acute toxicity.

Eye Irritation: Dust may cause mechanical irritation.

Skin Irritation: Generally non-irritating.

Respiratory Effects: May cause coughing and respiratory discomfort when inhaled as dust.

Ingestion Effects: Large quantities may cause stomach discomfort.

Chronic Effects: Repeated exposure to excessive dust concentrations may cause respiratory irritation.

Carcinogenicity: Not classified as carcinogenic by IARC, OSHA, NTP, or ACGIH.

12. Ecological Information

Ecotoxicity: Not expected to be toxic to aquatic or terrestrial organisms.

Persistence and Degradability: Naturally occurring inorganic mineral.

Bioaccumulative Potential: Not expected to bioaccumulate.

Mobility in Soil: Low mobility.

Environmental Impact: No known significant adverse environmental effects.

13. Disposal Considerations

Dispose of product and packaging in accordance with local, regional, and national regulations.

Recommended Disposal Methods

- Approved landfill disposal.
- Recovery and recycling where possible.
- Avoid uncontrolled environmental release.

14. Transport Information (Detailed)

General Transportation Status

Calcium Carbonate BP Grade is not classified as hazardous material or dangerous goods under national or international transport regulations. The product can be transported safely by road, rail, sea, and air under normal commercial conditions.

UN Number: Not regulated.

UN Proper Shipping Name: Not regulated.

Transport Hazard Class: Not regulated.

Subsidiary Risk: None assigned.

Packing Group: Not regulated.

Marine Pollutant Status: Not classified as a marine pollutant.

Environmental Hazard Classification: Not environmentally hazardous for transport purposes.

ADR/RID (Road and Rail Transportation)

This material is not classified as dangerous goods under ADR/RID regulations. No special transport labeling, placarding, or documentation is required beyond standard commercial shipping documents.

IMDG (Sea Transportation)

Not classified as dangerous goods under the International Maritime Dangerous Goods (IMDG) Code. No special marine transport requirements apply.

IATA (Air Transportation)

Not classified as dangerous goods according to IATA Dangerous Goods Regulations. Air shipment can be performed using standard packaging suitable for powder materials.

Transport Precautions

- Transport only in clean, dry, and properly sealed containers.
- Protect packaging from moisture and contamination.
- Avoid rough handling that may damage containers.
- Prevent excessive dust formation during loading and unloading operations.

- Keep away from strong acids and incompatible materials.
- Ensure packages remain properly labeled during transport.

Recommended Packaging for Transport

- HDPE bags with inner polyethylene liner
- Multi-wall paper bags with PE liner
- Fiber drums
- HDPE drums
- Jumbo bags (FIBC) for bulk transportation

Bulk Transport Conditions

When transported in bulk, ensure protection from rain, humidity, and contamination. Vehicles should be clean, dry, and covered.

Emergency Procedures During Transport

In the event of accidental spillage:

- Avoid generating dust.
- Collect material mechanically.
- Transfer to suitable containers for recovery or disposal.
- Prevent material from entering drains and waterways.
- Wear appropriate personal protective equipment during cleanup.

Special Transport Information

No special precautions are required beyond good industrial transportation practices.

15. Regulatory Information

Regulatory Status: Complies with applicable British Pharmacopoeia (BP) requirements.

Chemical Inventory Status: Listed or exempt on major international chemical inventories.

GHS Classification: Not classified as hazardous.

TSCA Status: Listed.

REACH Status: Registered or exempt as applicable.

16. Other Information

Disclaimer

The information contained in this Material Safety Data Sheet is believed to be accurate and reliable based on available knowledge at the date of publication. It is intended solely as

guidance for safe handling, storage, transportation, processing, use, and disposal of the product. No warranty, expressed or implied, is made regarding the completeness or accuracy of the information. Users are responsible for ensuring compliance with applicable laws and regulations and determining the suitability of the product for their intended applications.

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