SBF PHARMA
From Raw to Ready, Precision in Every Product.

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Material Safety Data Sheet (MSDS)

Product Name: Chalk BP Grade (Calcium Carbonate Oystershell)
MSDS Generate Date: 20-05-2017
Revision Date: 30-12-2024

Manufacturer / Supplier:
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1. Identification of the Substance/Preparation and of the Company

Product Name: Chalk BP Grade (Calcium Carbonate Oyster Shell)

Synonyms: Natural Calcium Carbonate, Oyster Shell Calcium Carbonate, Pharmaceutical Grade Calcium Carbonate

Chemical Name: Calcium Carbonate

Chemical Formula: $CaCO_3$

CAS Number: 471-34-1

EINECS Number: 207-439-9

Grade: BP Grade

Recommended Uses:

Used as a pharmaceutical excipient, calcium supplement, antacid ingredient, food fortification agent, and nutraceutical raw material.

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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: Generally non-irritating. Prolonged contact may cause mild dryness.

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

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

Environmental Hazards

Not expected to pose significant environmental hazards.

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3. Composition / Information on Ingredients

Substance Name: Calcium Carbonate (Oyster Shell Source)

Chemical Formula: $CaCO_3$

CAS Number: 471-34-1

EINECS Number: 207-439-9

Purity: Not less than 98%

Grade: BP Grade

Impurities: Present only within British Pharmacopoeia specified limits.

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4. First Aid Measures

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

Skin Contact: Wash affected area thoroughly with soap and water.

Inhalation: Move the affected person to fresh air. Seek medical attention if respiratory symptoms continue.

Ingestion: Rinse mouth thoroughly with water. Drink water if conscious. Obtain medical advice if large quantities have been swallowed.

Most Important Symptoms: Dust exposure may cause irritation of the eyes, nose, throat, and respiratory tract.

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5. Fire Fighting Measures

Suitable Extinguishing Media

- Water spray
- Dry chemical powder
- Carbon dioxide (CO_2)
- Foam

Specific Hazards

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

At temperatures above approximately 825°C, decomposition may occur producing calcium oxide and carbon dioxide.

Protective Equipment for Firefighters

Wear self-contained breathing apparatus and suitable protective clothing.

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6. Accidental Release Measures

Personal Precautions: Avoid generating airborne dust. Use suitable personal protective equipment.

Environmental Precautions: Prevent excessive release into drains, sewers, and waterways.

Methods for Cleaning Up: Sweep, vacuum, or collect mechanically and place in suitable containers for disposal or recovery. Avoid creating dust.

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7. Handling and Storage

Handling

- Avoid inhalation of dust.
- Avoid unnecessary dust generation.
- Use adequate ventilation.
- Follow good industrial hygiene practices.

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 and incompatible materials.

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8. Exposure Controls / Personal Protection

Exposure Limits: No specific occupational exposure limits established for this product.

Engineering Controls: Provide adequate ventilation and dust extraction systems where necessary.

Personal Protective Equipment

Eye Protection: Safety glasses or chemical safety goggles.

Hand Protection: Protective gloves.

Respiratory Protection: Approved dust mask or respirator where dust concentrations are excessive.

Skin Protection: Suitable work clothing.

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9. Physical and Chemical Properties

Appearance: White to off-white fine powder

Odor: Odorless

Physical State: Solid powder

pH (10% Suspension): Approximately 8.0 – 10.0

Melting Point: Not applicable; decomposes before melting

Decomposition Temperature: Approximately 825°C

Relative Density: 2.70 – 2.95 g/cm³

Bulk Density: 0.70 – 1.10 g/ml

Water Solubility: Practically insoluble in water

Solubility in Dilute Acids: Soluble with effervescence

Flash Point: Not applicable

Auto-Ignition Temperature: Not applicable

Explosive Properties: Not explosive

Oxidizing Properties: Not oxidizing

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10. Stability and Reactivity

Chemical Stability: Stable under recommended storage and handling conditions.

Conditions to Avoid

- Excessive heat
- Moisture
- Dust generation

Incompatible Materials: Strong acids.

Hazardous Decomposition Products: Calcium oxide and carbon dioxide.

Hazardous Polymerization: Will not occur.

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11. Toxicological Information

Acute Toxicity: Low toxicity under normal conditions of use.

Eye Effects: Dust may cause mechanical irritation.

Skin Effects: Generally non-irritating.

Inhalation Effects: Dust may irritate the respiratory tract causing coughing or sneezing.

Ingestion Effects: Large quantities may cause gastrointestinal discomfort.

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

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

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12. Ecological Information

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

Persistence and Degradability: Naturally occurring mineral substance.

Bioaccumulative Potential: Not expected to bioaccumulate.

Mobility in Soil: Low mobility.

Environmental Impact: No known significant adverse environmental effects.

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13. Disposal Considerations

Dispose of material in accordance with applicable local, regional, and national regulations.

Recommended Disposal Methods

- Dispose through authorized waste management facilities.
- Recycle uncontaminated material whenever possible.
- Prevent unnecessary release into the environment.

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14. Transport Information

General Transport Status

Chalk BP Grade (Calcium Carbonate Oyster Shell) is not classified as a hazardous material or dangerous good for transportation by road, rail, sea, or air according to international transport regulations.

UN Number: Not regulated.

Proper Shipping Name: Not regulated.

Transport Hazard Class: Not regulated.

Packing Group: Not regulated.

Environmental Hazards: Not considered environmentally hazardous or marine pollutant.

ADR/RID (Road and Rail Transport): Not classified as dangerous goods under ADR/RID regulations.

IMDG (Sea Transport): Not classified as dangerous goods under IMDG Code requirements.

IATA (Air Transport): Not classified as dangerous goods under IATA Dangerous Goods Regulations.

Special Transport Precautions

- Transport in properly sealed containers.
- Protect packaging from moisture, contamination, and physical damage.
- Avoid excessive dust generation during loading and unloading.
- Ensure containers are securely stacked and handled carefully.

Recommended Packaging

- HDPE bags with inner polyethylene liner
- Multiwall paper bags with liner
- Fiber drums
- HDPE drums

Bulk Transport Guidance

Transport in dry conditions using covered vehicles or containers to prevent contamination and moisture absorption.

Emergency Measures During Transport

In case of accidental spillage, collect material mechanically, avoid dust formation, and prevent entry into drains and watercourses.

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15. Regulatory Information

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

International Chemical Inventories: Calcium Carbonate is listed or exempt on major international chemical inventories.

GHS Classification: Not classified as hazardous.

TSCA Status: Listed.

REACH Status: Registered or exempt as applicable.

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16. Other Information

Disclaimer

The information contained in this Material Safety Data Sheet is believed to be accurate and represents the best information currently available. It is intended solely as guidance for safe handling, storage, transportation, use, and disposal of the product. No warranty, expressed or implied, is made regarding the accuracy or completeness of the information. Users are responsible for determining the suitability of this information for their specific applications and for complying with all applicable laws and regulations.

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