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

Address: Block - 263/03, Santej, Ta-Kalol, Dis-Gandhinagar, Gujarat-382721
Phone : 832 031 0672
Web: www.sbfpharma.com
E-mail: info@sbfpharma.com
CIN: U24230GJ2011PTC064654

Material Safety Data Sheet (MSDS)

Product Name: Calcium Carbonate Oystershell DC Granules
MSDS Generate Date: 20-05-2017
Revision Date: 30-12-2024

Manufacturer / Supplier:
SBF Pharma
Block - 263/03, Santej - Vadasar Road,
Ta - Kalol, Dis - Gandhinagar,
Gujarat, India - 382721
Contact No.: +91 832 031 0672
Email: info@sbfpharma.com
Website: www.sbfpharma.com

---

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

- **Product Name:** Calcium Carbonate Oystershell DC Granules
- **Chemical Name:** Calcium Carbonate
- **Synonyms:** Oyster Shell Calcium Carbonate, Direct Compression Calcium Granules, Oystershell Calcium DC Granules
- **CAS Number:** 471-34-1
- **Molecular Formula:** $CaCO_3$
- **Molecular Weight:** 100.09 g/mol
- **Recommended Use:**
  Pharmaceutical direct compression tablets, nutraceutical tablets, dietary supplements, mineral fortification and food applications.

---

2. Hazard Identification

GHS Classification: The product is not classified as hazardous according to the Globally Harmonized System (GHS).

Potential Health Effects

Inhalation:
Dust generated during handling may cause temporary irritation of the nose, throat, and respiratory tract.

Skin Contact:
Prolonged contact may cause mild mechanical irritation or dryness.

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

Ingestion:
Low toxicity. Excessive ingestion may cause mild gastrointestinal discomfort.

Environmental Hazards

Not expected to present significant environmental hazards.

Precautionary Statements

- Avoid breathing dust.
- Avoid unnecessary dust generation.
- Wear suitable personal protective equipment.
- Wash hands thoroughly after handling.

---

3. Composition / Information on Ingredients

Chemical Name: Calcium Carbonate

Common Name: Oyster Shell Calcium Carbonate DC Granules

CAS Number: 471-34-1

Molecular Formula: $CaCO_3$

Source: Purified and processed oyster shells

Purity: Typically not less than 95% Calcium Carbonate (or as per product specification)

Product Form: Free-flowing direct compression granules

The product consists primarily of naturally derived calcium carbonate processed into direct compression granules. Pharmaceutical excipients used during granulation are present in small quantities where applicable and comply with applicable pharmaceutical quality standards.

---

4. First Aid Measures

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

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

Eye Contact: Immediately flush eyes with clean water for at least 15 minutes. Obtain medical attention if irritation continues.

Ingestion: Rinse mouth with water. Drink sufficient water. Seek medical advice if discomfort persists.

Most Important Symptoms:

- Mild respiratory irritation
- Eye irritation
- Skin dryness

---

5. Fire Fighting Measures

Suitable Extinguishing Media: Use extinguishing media appropriate for the surrounding fire.

Unsuitable Extinguishing Media: None known.

Special Hazards: The product is non-flammable and non-combustible.

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

---

6. Accidental Release Measures

Personal Precautions

- Avoid dust generation.
- Wear suitable respiratory protection if necessary.
- Ensure adequate ventilation.

Environmental Precautions: Prevent large quantities from entering drains and natural waterways.

Methods for Cleaning Up: Sweep or vacuum carefully without generating dust. Collect material in suitable containers for disposal or recovery.

---

7. Handling and Storage

Handling:

- Avoid excessive dust formation.
- Use appropriate ventilation.
- Follow good manufacturing and hygiene practices.
- Avoid contact with moisture during handling.

Storage:

Store in tightly closed containers in a cool, dry, clean, and well-ventilated place.

Protect from moisture, direct sunlight, excessive humidity, and contamination.

---

8. Exposure Controls / Personal Protection

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

Personal Protective Equipment:

Respiratory Protection: Approved dust mask where necessary.

Eye Protection: Safety goggles.

Hand Protection: Protective gloves.

Skin Protection: Suitable protective clothing.

---

9. Physical and Chemical Properties

Appearance: White to off-white free-flowing granules

Odor: Odorless

Physical State: Solid granules

pH (10% Suspension): Approximately 8.0–10.5

Melting Point: Decomposes above approximately 825°C

Boiling Point: Not applicable

Bulk Density: Varies according to granule size and formulation

Specific Gravity: Approximately 2.7

Solubility: Practically insoluble in water; readily soluble in dilute mineral acids with evolution of carbon dioxide

Flash Point: Not applicable

Auto-Ignition Temperature: Not applicable

Explosive Properties: None

Oxidizing Properties: None

Vapor Pressure: Not applicable

Vapor Density: Not applicable

10. Stability and Reactivity

Reactivity: Stable under recommended storage conditions.

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: Excessive moisture, Strong acids, Excessive heat.

Incompatible Materials: Strong acids and strong oxidizing agents.

Hazardous Decomposition Products: Carbon dioxide may be released upon reaction with acids or thermal decomposition.

11. Toxicological Information

Acute Toxicity: Low acute toxicity.

Skin Irritation: May cause slight mechanical irritation.

Eye Irritation: Dust may cause temporary irritation.

Respiratory Effects: Dust may irritate the upper respiratory tract.

Carcinogenicity: Not classified as carcinogenic.

Mutagenicity: No known adverse effects.

Reproductive Toxicity: No known adverse effects.

12. Ecological Information

Ecotoxicity: No significant ecological toxicity expected.

Persistence and Degradability: Naturally occurring mineral material.

Bioaccumulative Potential: Not expected to bioaccumulate.

Mobility in Soil: Low mobility.

Environmental Impact: No known adverse environmental effects under normal use.

13. Disposal Considerations

Dispose of unused product and contaminated packaging in accordance with applicable local, state, and national regulations.

Avoid uncontrolled release into drains, watercourses, or the environment.

14. Transport Information (Detailed)

Calcium Carbonate Oystershell DC Granules are **not classified as hazardous goods** under national or international transportation regulations. The material is considered a stable, non-flammable, non-toxic mineral product and presents no unusual transport hazards when handled according to good industrial practice.

UN Number: Not regulated.

UN Proper Shipping Name: Not regulated.

Transport Hazard Class: Not regulated.

Packing Group: Not regulated.

Environmental Hazard: Not classified as environmentally hazardous.

Marine Pollutant: No.

Road Transport (ADR/RID): Not classified as dangerous goods for road or rail transportation. Transport in sealed bags, HDPE drums, fiber drums, or approved containers. Protect packaging from tearing, moisture, and contamination.

Sea Transport (IMDG): Not regulated under the International Maritime Dangerous Goods (IMDG) Code. The product is not considered a marine pollutant and does not require special segregation, hazard labels, or emergency schedules. Containers should remain dry and securely closed throughout shipment.

Air Transport (IATA): Not classified as dangerous goods by the International Air Transport Association (IATA). Standard commercial packaging is acceptable provided that dust generation is minimized and containers remain securely sealed.

Special Transport Precautions:

- Keep containers tightly closed throughout transportation.
- Protect from rain, humidity, and excessive moisture.
- Prevent physical damage to packaging during loading and unloading.
- Avoid generating excessive dust during handling.
- Keep away from strong acids and incompatible chemicals.
- Transport in clean, dry vehicles.
- Secure cargo properly to prevent movement and package damage.

Transport in Bulk According to MARPOL Annex II and IBC Code: Not applicable because the product is transported as a solid mineral material.

Emergency Transport Information: No special emergency response procedures are required during transportation. In the event of accidental spillage, avoid dust formation, collect the material by sweeping or vacuuming, and dispose of it according to local regulations. Personnel should wear appropriate personal protective equipment during cleanup.

15. Regulatory Information

This product is not classified as hazardous under the Globally Harmonized System (GHS).

Manufactured and supplied in accordance with applicable pharmaceutical quality systems and relevant national regulations.

No special hazard labeling is required under normal conditions of use.

---

16. Other Information

The information provided in this Material Safety Data Sheet is based on current scientific knowledge and industrial experience. It is intended solely as guidance for safe handling, storage, transportation, processing, and disposal of the product. It does not constitute a guarantee of product specifications or suitability for any particular application.

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