

Material Safety Data Sheet (MSDS)

Product Name: Calcium Carbonate Oystershell BP Grade

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

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

Product Name: Calcium Carbonate Oystershell BP Grade

Chemical Name: Calcium Carbonate

Synonyms: Limestone, Chalk, Calcite, Oystershell Calcium Carbonate

Chemical Formula: CaCO₃

Recommended Use: Used in pharmaceuticals, nutraceuticals, food supplements, and cosmetic formulations.

2. Hazard Identification

- **Classification:** Not classified as hazardous under normal conditions.
- **Hazard Statements:** May cause mild irritation to eyes, skin, or respiratory tract due to dust.
- **Precautionary Statements:**
 - Avoid inhalation of dust.

- Use adequate ventilation.
- Wash hands thoroughly after handling.
- **Emergency Overview:** White odorless powder; non-combustible, stable under normal conditions.

3. Composition / Information on Ingredients

Chemical Name: Calcium Carbonate

CAS Number: 471-34-1

Molecular Formula: CaCO₃

Molecular Weight: 100.09 g/mol

Purity: ≥ 98.0% (BP Grade)

4. First Aid Measures

- **Inhalation:** Move to fresh air. If irritation persists, seek medical advice.
- **Skin Contact:** Wash with soap and water. Seek medical attention if irritation continues.
- **Eye Contact:** Rinse immediately with plenty of water for at least 15 minutes. Consult a physician if irritation develops.
- **Ingestion:** Rinse mouth with water. If large amounts are ingested, seek medical attention.

5. Fire Fighting Measures

- **Flammability:** Non-flammable.
- **Suitable Extinguishing Media:** Use extinguishing media suitable for surrounding fire.
- **Special Hazards:** None known.
- **Protective Equipment:** Firefighters should wear protective clothing and self-contained breathing apparatus.

6. Accidental Release Measures

- Avoid dust formation.
- Sweep up and collect in suitable container for disposal.

- Prevent dust accumulation and avoid contact with eyes and skin.
 - Dispose of in accordance with local regulations.
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7. Handling and Storage

- **Handling:** Avoid creating dust. Use personal protective equipment.
 - **Storage:** Store in a cool, dry place in tightly closed containers. Keep away from acids.
 - **Incompatible Materials:** Strong acids (may release carbon dioxide).
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8. Exposure Controls / Personal Protection

- **Exposure Limits:**
 - OSHA PEL (TWA): 15 mg/m³ (total dust)
 - ACGIH TLV: 10 mg/m³ (inhalable dust)
 - **Engineering Controls:** Ensure adequate ventilation.
 - **Personal Protective Equipment:**
 - **Respiratory:** Use dust mask where ventilation is inadequate.
 - **Eye:** Safety goggles.
 - **Skin:** Gloves and protective clothing.
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9. Physical and Chemical Properties

- **Appearance:** White fine powder
- **Odor:** Odorless
- **Solubility:** Practically insoluble in water; soluble in acids with effervescence
- **pH (suspension):** 8.5 – 9.5
- **Melting Point:** Decomposes above 825°C
- **Specific Gravity:** 2.7
- **Boiling Point:** Not applicable

- **Flash Point:** Non-flammable
 - **Bulk Density:** Approx. 1.0 g/cm³
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10. Stability and Reactivity

- **Stability:** Stable under normal temperature and pressure.
 - **Conditions to Avoid:** Moisture, acids.
 - **Incompatible Materials:** Acids (releases CO₂ gas).
 - **Hazardous Decomposition Products:** Calcium oxide and carbon dioxide upon heating.
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11. Toxicological Information

- **Acute Toxicity:** Non-toxic under normal use.
 - **Skin Corrosion/Irritation:** May cause mild irritation.
 - **Eye Damage/Irritation:** Dust may cause mechanical irritation.
 - **Inhalation:** Prolonged exposure to dust may cause respiratory irritation.
 - **Ingestion:** Considered safe in regulated quantities (used as a food additive).
 - **Carcinogenicity:** Not listed by IARC, NTP, or OSHA.
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12. Ecological Information

- **Ecotoxicity:** Not harmful to aquatic or terrestrial life.
 - **Persistence and Degradability:** Naturally occurring and stable.
 - **Bioaccumulation Potential:** No bioaccumulation expected.
 - **Mobility in Soil:** Low mobility; reacts with acids to form soluble salts.
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13. Disposal Considerations

- Dispose of waste material in accordance with local, regional, or national regulations.
- Non-hazardous waste.
- Avoid release into the environment.

14. Transport Information (Detailed)

- **UN Number:** Not applicable (non-hazardous material).
- **UN Proper Shipping Name:** Calcium Carbonate (Oystershell), BP Grade
- **Transport Hazard Class:** Not regulated as hazardous by transport authorities.
- **Packing Group:** Not applicable.
- **Marine Pollutant:** No
- **Environmental Hazards:** None identified.
- **Special Precautions for User:**
 - Ensure containers are well-sealed and labeled.
 - Prevent container damage during handling.
 - Avoid generating airborne dust during loading/unloading.
- **Transport in Bulk (IMDG/IMO):** Not applicable.
- **Land Transport (ADR/RID):** Non-dangerous goods.
- **Air Transport (IATA/ICAO):** Non-dangerous goods.
- **Sea Transport (IMDG):** Non-dangerous goods.
- **Regulatory Information:** Complies with IATA, IMDG, ADR, and DOT non-hazardous classification.
- **Emergency Response Guide (ERG):** Not required; no special measures needed.

15. Regulatory Information

- **Regulatory Status:** Not classified as hazardous under GHS.
- **Chemical Safety Assessment:** Not required for this product.
- **Compliance:** BP/Pharmaceutical Grade, suitable for human consumption applications under prescribed limits.

16. Other Information

This information is based on current knowledge and is intended to describe the product in terms of safety requirements. It should not be construed as guaranteeing specific properties.

Users are advised to ensure that this product is suitable for their particular purpose and usage conditions.

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