

Material Safety Data Sheet (MSDS)

Product Name: Calcium Carbonate Oyster Shell

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

Rawpharma Biz Pvt Ltd

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

- **Product Name:** Calcium Carbonate – Oyster Shell Grade
- **Synonyms:** Limestone, Chalk, Oyster Shell Powder, Natural Calcium Carbonate
- **Chemical Formula:** CaCO_3

2. Hazard Identification

- Not classified as hazardous under GHS criteria.
- Low acute toxicity.
- Dust may cause mechanical irritation to eyes and respiratory tract.
- Prolonged inhalation of high concentrations may cause lung irritation.

3. Composition / Information on Ingredients

- **Substance:** Calcium Carbonate (Natural, Oyster Shell)

- **CAS No.:** 471-34-1
- **EC No.:** 207-439-9
- **Purity:** ≥ 98%

4. First Aid Measures

- **Inhalation:** Move to fresh air. Seek medical attention if irritation persists.
- **Skin Contact:** Wash with soap and water. No special treatment required.
- **Eye Contact:** Rinse thoroughly with plenty of water for at least 15 minutes. Seek medical advice if irritation continues.
- **Ingestion:** Rinse mouth with water. If large amounts are swallowed, seek medical attention.

5. Firefighting Measures

- **Suitable Extinguishing Media:** Not combustible. Use water spray, CO₂, dry chemical or foam for surrounding fire.
- **Specific Hazards:** Non-flammable, non-explosive. Decomposes above 825°C releasing CO₂.
- **Protective Equipment:** Wear self-contained breathing apparatus for surrounding fire.

6. Accidental Release Measures

- Avoid dust formation.
- Sweep or vacuum without generating dust.
- Collect in suitable container for reuse or disposal.
- Ensure good ventilation.

7. Handling and Storage

- Handle in accordance with good industrial hygiene practices.
- Avoid creating dust.
- Store in a dry, well-ventilated place.

- Keep container tightly closed.

8. Exposure Controls / Personal Protection

- **Occupational Exposure Limits:**
 - OSHA PEL: 15 mg/m³ (total dust), 5 mg/m³ (respirable fraction).
 - ACGIH TLV: 10 mg/m³ (total dust).
- **Engineering Controls:** Use local exhaust ventilation if dust is generated.
- **Personal Protection:**
 - Respiratory: NIOSH approved dust mask if dust levels are high.
 - Eyes: Safety glasses.
 - Skin: Protective gloves not required under normal use.

9. Physical and Chemical Properties

- Appearance: White powder / granules
- Odor: Odorless
- Molecular Weight: 100.09 g/mol
- Solubility: Slightly soluble in water (0.014 g/L at 25°C)
- Melting/Decomposition Point: > 825°C (decomposes)
- pH: ~9 (suspension in water)

10. Stability and Reactivity

- Stable under normal conditions.
- **Conditions to Avoid:** Excessive heat, moisture.
- **Incompatible Materials:** Acids (releases CO₂).
- **Hazardous Decomposition Products:** Carbon dioxide on heating.

11. Toxicological Information

- **Acute Toxicity:** LD₅₀ (oral, rat) > 5000 mg/kg → practically non-toxic.
- **Irritation:** Dust may cause mechanical irritation to eyes, skin, and respiratory tract.
- **Carcinogenicity:** Not classified as carcinogenic.
- **Chronic Effects:** Prolonged inhalation of high concentrations may cause lung discomfort.

12. Ecological Information

- Not toxic to aquatic or terrestrial organisms.
- Non-bioaccumulative.
- Large discharges may cause temporary pH rise in water.

13. Disposal Considerations

- Dispose of in accordance with local, regional, and national regulations.
- Can be recycled or reused in industrial applications.
- Avoid release into sewage systems.

14. Transport Information

- **UN Number:** Not applicable (non-hazardous).
- **UN Proper Shipping Name:** Not regulated for transport.
- **Transport Hazard Class(es):** Not classified as dangerous for transport.
- **Packing Group:** Not applicable.
- **Marine Pollutant:** No.
- **Special Precautions for User:**
 - Product is stable and non-hazardous under normal transport conditions.
 - Transport in clean, dry, and sealed packaging to prevent contamination and moisture absorption.
 - Ensure bags or containers are properly labeled.

- Avoid generation of dust during loading/unloading.
 - Store away from acids to prevent CO₂ release.
 - **Transport by Road (ADR/RID):** Not regulated.
 - **Transport by Sea (IMDG/IMO):** Not regulated; not a marine pollutant.
 - **Transport by Air (IATA/ICAO):** Not regulated; no restrictions.
 - **Transport in Bulk (Annex II of MARPOL 73/78 & IBC Code):** Not applicable – not classified as a bulk liquid chemical.
 - **Environmental Hazards:** None known.
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15. Regulatory Information

- OSHA Hazard Communication: Non-hazardous.
 - REACH/CLP: Not classified.
 - TSCA: Listed.
 - EC Inventory: Listed.
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16. Other Information

- This MSDS is prepared based on current knowledge and international guidelines.
- Users must ensure suitability of the product for intended applications.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.