

Material Safety Data Sheet (MSDS)

Product Name: Calcite/ Limestone Powder

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

Rawpharma Biz Pvt Ltd
1101- City Centre 2,
Science City Road,
Sola Ahmedabad Gujarat,
India - 380060.

Contact No.: +91 97272 88479

Email: info@rawpharmabiz.com

Website: www.rawpharmabiz.com

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

- **Product Name:** Calcite / Limestone Powder
 - **Synonyms:** Calcium Carbonate Powder
 - **CAS Number:** 471-34-1
 - **Chemical Formula:** CaCO_3
 - **Recommended Use:** Raw material in cement, construction, chemical industries, and as filler in plastics and paints.
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2. Composition / Information on Ingredients

- **Substance:** Calcite / Limestone Powder
- **Chemical Name:** Calcium Carbonate
- **Concentration:** $\geq 95\%$

- **Impurities:** Trace amounts of magnesium carbonate, silica, and clay.
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3. Hazards Identification

- **GHS Classification:**
 - Not classified as hazardous under normal handling
 - **Health Hazards:**
 - Inhalation: May cause respiratory irritation
 - Skin contact: May cause mild irritation in sensitive individuals
 - Eye contact: Dust may cause mechanical irritation
 - **Environmental Hazards:**
 - Not known to be hazardous to the environment
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4. First-Aid Measures

- **Inhalation:** Move to fresh air; seek medical attention if irritation persists
 - **Skin Contact:** Wash with soap and water
 - **Eye Contact:** Rinse immediately with plenty of water; consult a doctor if irritation persists
 - **Ingestion:** Rinse mouth with water; do not induce vomiting; seek medical advice if large amounts ingested
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5. Fire-Fighting Measures

- **Flammability:** Non-flammable
 - **Extinguishing Media:** Use water spray, foam, dry powder, or CO₂ if other materials are involved
 - **Special Hazards:** Decomposition may release CO₂ at very high temperatures
 - **Protective Equipment:** Firefighters should wear standard protective equipment
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6. Accidental Release Measures

- **Personal Precautions:** Avoid dust formation; use protective equipment
 - **Environmental Precautions:** Avoid releasing large quantities into drains or waterways
 - **Methods for Cleanup:** Sweep or vacuum powder and transfer to suitable containers; avoid dry sweeping that creates dust clouds
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7. Handling and Storage

- **Handling:** Avoid generating dust; use adequate ventilation; do not inhale dust
 - **Storage:** Store in a cool, dry, and well-ventilated area; keep container tightly closed; protect from moisture
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8. Exposure Controls / Personal Protection

- **Occupational Exposure Limits:**
 - OSHA PEL: 15 mg/m³ (total dust), 5 mg/m³ (respirable fraction)
 - **Engineering Controls:** Local exhaust ventilation recommended
 - **Personal Protective Equipment (PPE):**
 - Respiratory protection: Dust mask or respirator
 - Eye protection: Safety goggles
 - Skin protection: Gloves and long-sleeved clothing
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9. Physical and Chemical Properties

- **Appearance:** White to off-white powder
- **Odor:** Odorless
- **pH:** 8.0 – 9.0 (in water suspension)
- **Melting Point:** Decomposes at ~825°C
- **Boiling Point:** Not applicable
- **Solubility:** Slightly soluble in water; soluble in acids
- **Density:** 2.71 g/cm³

10. Stability and Reactivity

- **Chemical Stability:** Stable under normal conditions
- **Conditions to Avoid:** Excessive heat, moisture
- **Incompatible Materials:** Strong acids (reacts to release CO₂), strong oxidizers
- **Hazardous Decomposition Products:** Carbon dioxide when heated

11. Toxicological Information

- **Acute Toxicity:** Low toxicity
- **Skin / Eye Irritation:** May cause minor mechanical irritation
- **Respiratory Effects:** Dust inhalation may cause coughing or sneezing
- **Chronic Effects:** Prolonged exposure to high dust concentrations may lead to respiratory issues

12. Ecological Information

- **Ecotoxicity:** Low; not harmful to aquatic organisms in normal use
- **Persistence and Degradability:** Non-biodegradable but environmentally inert
- **Bioaccumulation:** Low potential

13. Disposal Considerations

- Dispose in accordance with local, state, and federal regulations
- Avoid release to drains, sewers, or waterways

14. Transport Information (Detailed)

- **UN Number:** Not regulated
- **UN Proper Shipping Name:** Not applicable
- **Transport Hazard Class:** Not hazardous
- **Packing Group:** Not applicable

- **Transport by Road / Rail (ADR/RID):** No special requirements
- **Transport by Sea (IMDG):** Non-hazardous
- **Transport by Air (ICAO/IATA):** Not regulated
- **Special Precautions:**
 - Ensure containers are properly closed to prevent dust escape
 - Avoid generating dust clouds during handling and transport
 - When transported in bulk, use covered or enclosed containers to minimize dust dispersion
 - Avoid transportation with incompatible materials like strong acids

15. Regulatory Information

- Not classified as hazardous under OSHA, EU, or Indian regulations
- Complies with REACH and other chemical safety regulations

16. Other Information

- **Disclaimer:** The information provided is based on current knowledge and intended as a guide for safe handling, storage, and disposal. It does not constitute a warranty or specification.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.