

Material Safety Data Sheet (MSDS)

Product Name: Calcium Carbonate Heavy IP/BP/USP 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 Heavy
- **Synonyms:** Limestone, Calcite, Chalk
- **Molecular Formula:** CaCO_3
- **Molecular Weight:** 100.09 g/mol
- **Intended Use:** Pharmaceutical, Food additive, Industrial applications (IP/BP/USP grade).

2. Hazards Identification

- **Classification (GHS):** Not classified as hazardous.
- **Physical State:** White powder/granules.
- **Hazard Statement:** Not considered hazardous under normal use.
- **Precautionary Statements:**
 - Avoid breathing dust.

- Use in well-ventilated areas.
- Wear protective mask if dust is generated.

3. Composition/Information on Ingredients

- **Chemical Name:** Calcium Carbonate
- **CAS No.:** 471-34-1
- **EINECS No.:** 207-439-9
- **Purity:** ≥ 98% (Heavy, IP/BP/USP Grade)

4. First Aid Measures

- **Inhalation:** Move to fresh air. If discomfort persists, seek medical advice.
- **Skin Contact:** Wash with soap and water. No adverse effects expected.
- **Eye Contact:** Rinse cautiously with water for several minutes. Seek medical attention if irritation persists.
- **Ingestion:** Non-toxic; rinse mouth and drink water if large amount is ingested.

5. Fire Fighting Measures

- **Suitable Extinguishing Media:** Not flammable. Use media suitable for surrounding fire.
- **Special Hazards:** Decomposes on heating above 825 °C, releasing carbon dioxide.
- **Protective Equipment:** Wear protective gear for surrounding fire conditions.

6. Accidental Release Measures

- Avoid generating dust.
- Sweep up and collect in suitable container.
- Provide adequate ventilation.
- Dispose according to local regulations.

7. Handling and Storage

- **Handling:** Avoid dust formation. Use protective equipment if dust levels are high.
- **Storage:** Store in a cool, dry, and well-ventilated area. Keep container tightly closed.

8. Exposure Controls/Personal Protection

- **Occupational Exposure Limits (OEL):**
 - ACGIH TLV: 10 mg/m³ (inhalable dust)
- **Engineering Controls:** Use local exhaust ventilation if dust is generated.
- **Personal Protective Equipment:**
 - Respiratory Protection: Dust mask.
 - Eye Protection: Safety goggles.
 - Hand Protection: Gloves if prolonged contact.

9. Physical and Chemical Properties

- **Appearance:** White crystalline powder/granules.
- **Odor:** Odorless
- **pH (suspension in water):** 8 – 9
- **Melting Point:** Decomposes at 825 °C
- **Solubility in Water:** Practically insoluble (0.013 g/L at 25 °C)
- **Density (bulk):** 2.7 g/cm³

10. Stability and Reactivity

- **Stability:** Stable under normal conditions.
- **Conditions to Avoid:** Avoid high temperatures (above decomposition).
- **Incompatible Materials:** Strong acids (releases CO₂).
- **Hazardous Decomposition Products:** CO₂ on decomposition.

11. Toxicological Information

- **Acute Toxicity:** LD₅₀ (oral, rat) > 5000 mg/kg (non-toxic).
- **Skin/Eye Contact:** May cause mild irritation by mechanical action (dust).
- **Chronic Effects:** No known adverse effects when used appropriately.
- **Carcinogenicity:** Not listed as carcinogenic (IARC, OSHA, ACGIH).

12. Ecological Information

- **Ecotoxicity:** Not harmful to aquatic life.
- **Persistence and Degradability:** Inorganic substance; stable in environment.
- **Bioaccumulation:** Not expected.
- **Mobility in Soil:** Low mobility; insoluble in water.

13. Disposal Considerations

- Dispose in accordance with local, regional, and national regulations.
- Can be disposed as non-hazardous waste.
- Avoid disposal into waterways in large quantities.

14. Transport Information (Detailed)

- **UN Number:** Not applicable (non-hazardous).
- **UN Proper Shipping Name:** Calcium Carbonate, Heavy
- **Transport Hazard Class:** Not classified as hazardous for transport.
- **Packing Group:** Not applicable.
- **Label Required:** None (non-dangerous goods).
- **Environmental Hazards:** Not environmentally hazardous.
- **Transport in Bulk (IMDG, IBC Code):** Not applicable.
- **Special Precautions for User:**
 - Ensure packaging is secure to prevent dust release.

- Protect from moisture during transportation.
 - Transport under dry conditions.
- **Mode-Specific Guidance:**
 - **Road (ADR/RID):** Not restricted.
 - **Air (IATA/ICAO):** Not restricted.
 - **Sea (IMDG/IMO):** Not restricted.
 - **Rail:** Not restricted.

Conclusion: Calcium Carbonate Heavy IP/BP/USP Grade is **non-hazardous, non-flammable, and non-dangerous** for all modes of transportation.

15. Regulatory Information

- Not classified as hazardous according to EU CLP Regulation (EC) No. 1272/2008.
- Exempt from REACH registration for natural substances.
- Listed in pharmacopeias (IP/BP/USP) for pharmaceutical use.

16. Other Information

- **References:** IP/BP/USP standards, ECHA database, ILO chemical safety cards.
- **Disclaimer:** Information is accurate to the best of our knowledge. Users are responsible for ensuring suitability for their application.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.