

Material Safety Data Sheet (MSDS)

Product Name: Precipitated/ Light Calcium Carbonate 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 Company

- **Product Name:** Precipitated / Light Calcium Carbonate BP/USP Grade
- **Synonyms:** PCC, Light Calcium Carbonate
- **Chemical Formula:** CaCO_3
- **Intended Use:** Pharmaceutical excipient, food additive, cosmetics, industrial applications.

2. Hazards Identification

- **Classification (GHS):** Not classified as hazardous.
- **Physical State:** White, fine, odorless powder.
- **Primary Hazards:** Dust may cause mild irritation to eyes, skin, and respiratory tract.
- **Signal Word:** None required.
- **Hazard Statements:** Not considered hazardous under normal handling.

3. Composition / Information on Ingredients

- **Substance:** Calcium Carbonate (Precipitated/Light)
- **CAS No.:** 471-34-1
- **EINECS No.:** 207-439-9
- **Purity:** $\geq 98\%$ (BP/USP grade)

4. First Aid Measures

- **Inhalation:** Move to fresh air. If irritation persists, seek medical advice.
- **Skin Contact:** Wash with water. No special treatment required.
- **Eye Contact:** Rinse cautiously with water for several minutes. If irritation continues, seek medical attention.
- **Ingestion:** Non-toxic. If discomfort occurs, rinse mouth and seek medical advice.

5. Fire-Fighting Measures

- **Suitable Extinguishing Media:** Use media appropriate for surrounding fire. Calcium carbonate itself is non-flammable.
- **Special Hazards:** At very high temperatures ($> 825^{\circ}\text{C}$), decomposition may release CO_2 .
- **Protective Equipment:** Standard protective gear for firefighters.

6. Accidental Release Measures

- **Personal Precautions:** Avoid dust formation, wear dust mask and safety goggles.
- **Environmental Precautions:** Non-hazardous, but avoid excessive release into drains.
- **Clean-Up:** Sweep up, avoid creating dust, collect in suitable container.

7. Handling and Storage

- **Handling:** Avoid dust generation, use in well-ventilated area.
- **Storage:** Store in a dry, cool, well-ventilated area. Keep container tightly closed.

8. Exposure Controls / Personal Protection

- **Exposure Limits:** OSHA PEL: 15 mg/m³ (total dust), 5 mg/m³ (respirable fraction).
- **Respiratory Protection:** Dust mask if airborne dust exceeds limits.
- **Eye Protection:** Safety goggles recommended.
- **Skin Protection:** Normal work clothing.
- **Engineering Controls:** Local exhaust ventilation where dust is generated.

9. Physical and Chemical Properties

- **Appearance:** White, odorless, fine powder.
- **Molecular Weight:** 100.09 g/mol
- **Melting Point/Decomposition:** Decomposes > 825°C to CaO and CO₂.
- **Solubility:** Practically insoluble in water; soluble in dilute acids.
- **pH (10% slurry):** ~9 – 10
- **Density:** ~2.7 g/cm³

10. Stability and Reactivity

- **Stability:** Stable under normal conditions.
- **Incompatible Materials:** Strong acids (releases CO₂).
- **Decomposition Products:** CaO and CO₂ on heating above decomposition temperature.
- **Hazardous Polymerization:** Will not occur.

11. Toxicological Information

- **Acute Toxicity:** Non-toxic (LD₅₀ oral rat > 5000 mg/kg).
- **Skin/Eye Contact:** May cause mild mechanical irritation.
- **Inhalation:** Prolonged exposure to dust may cause respiratory discomfort.
- **Chronic Effects:** No known chronic effects.

- **Carcinogenicity:** Not listed by IARC, OSHA, or NTP.

12. Ecological Information

- **Eco-toxicity:** Non-toxic to aquatic or terrestrial life.
- **Persistence/Degradability:** Inorganic material, stable in environment.
- **Mobility:** Low mobility in soil.
- **Bioaccumulation:** No bioaccumulation potential.

13. Disposal Considerations

- **Waste Disposal:** Dispose of in accordance with local, regional, and national regulations.
- **Unused Product:** Non-hazardous waste. Can be landfilled in compliance with regulations.
- **Packaging Waste:** Recycle or dispose according to regulations.

14. Transport Information (Detailed)

- **UN Number:** Not applicable (non-hazardous).
- **UN Proper Shipping Name:** Calcium Carbonate (Precipitated/Light), BP/USP Grade
- **Transport Hazard Class:** Not classified as dangerous goods.
- **Packing Group:** Not applicable.
- **Labeling Requirements:** None required under ADR, RID, IMDG, IATA, or DOT.
- **Environmental Hazards:** Not environmentally hazardous.
- **Special Precautions for User:**
 - Avoid creating dust during loading/unloading.
 - Ensure packaging is intact to prevent spillage.
 - Handle in dry conditions; product may cake if exposed to moisture.
- **Transport in Bulk (per IMO/IMDG):** Not regulated as bulk cargo.
- **Regulatory References:**

- ADR/RID: Not classified.
- IMDG Code: Not classified.
- ICAO/IATA: Not classified.
- DOT (USA): Not regulated.

Conclusion: Precipitated/Light Calcium Carbonate BP/USP Grade is **not a hazardous material for transport** under international or domestic regulations. Transport can be carried out safely using normal packaging and handling procedures.

15. Regulatory Information

- **EU Classification:** Not hazardous.
 - **US (OSHA):** Not hazardous.
 - **India:** Complies with Drugs & Cosmetics Act for BP/USP excipient.
 - **Other Regulations:** Exempt from chemical inventories due to natural mineral origin.
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16. Other Information

- **Training Advice:** Provide training on safe handling of powders.
- **Key References:** BP/USP monographs, OSHA standards, REACH guidelines.
- **Disclaimer:** Information is believed accurate and represents best knowledge, but without any warranty. User is responsible for safe handling.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.