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CIN: U24230GJ2011PTC064654

Material Safety Data Sheet (MSDS)

Product Name: Calcium Carbonate EP Grade

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Manufacturer / Supplier:

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

Product Name: Calcium Carbonate EP Grade

Synonyms: Precipitated Calcium Carbonate, PCC

Recommended Uses: Pharmaceutical excipient, food additive, antacid, laboratory reagent.

2. Hazards Identification

- **Classification:** Not classified as hazardous according to GHS.
- **Primary Hazards:**
 - Nuisance dust may cause mild respiratory irritation.
 - Prolonged exposure may cause dryness of skin or eyes.
- **GHS Label Elements:**

- **Signal Word:** None
 - **Pictograms:** None
 - **Precautionary Statements:**
 - Avoid dust formation.
 - Use adequate ventilation.
 - Avoid eye contact.
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3. Composition / Information on Ingredients

Chemical Name: Calcium Carbonate

Chemical Formula: CaCO₃

CAS No.: 471-34-1

EC No.: 207-439-9

Purity: ≥ 98% (EP Grade)

4. First Aid Measures

Inhalation: Move to fresh air. Seek medical attention if irritation persists.

Skin Contact: Wash with water. No adverse effects expected.

Eye Contact: Rinse cautiously with water for several minutes. Seek medical help if irritation continues.

Ingestion: Non-toxic. Rinse mouth and drink water if needed.

5. Fire-Fighting Measures

- **Suitable Extinguishing Media:** Product is non-combustible; use media appropriate for surrounding fire.
 - **Special Hazards:** No known hazardous combustion products.
 - **Firefighter Protection:** Standard equipment; no special precautions.
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6. Accidental Release Measures

- Avoid creating dust.

- Sweep or vacuum using non-sparking tools.
- Prevent dust from entering drains or ventilation systems.
- Use protective mask and goggles if dust is airborne.

7. Handling and Storage

Handling:

- Avoid breathing dust.
- Use in ventilated areas.

Storage:

- Store in a cool, dry, well-ventilated place.
- Keep container tightly closed and away from moisture.

8. Exposure Controls / Personal Protection

Exposure Limits:

- OSHA PEL (TWA): 15 mg/m³ (total dust)
- ACGIH TLV: 10 mg/m³

Protection:

- **Respiratory:** Dust mask if airborne dust is present.
- **Eye:** Safety goggles.
- **Skin:** Gloves optional; product is not irritating.
- **Engineering Controls:** Use local exhaust ventilation.

9. Physical and Chemical Properties

- **Appearance:** White, fine powder
- **Odor:** Odorless
- **pH (10% slurry):** 9–10
- **Melting Point:** Decomposes at ~825°C

- **Solubility:** Insoluble in water
 - **Boiling Point:** Not applicable
 - **Density:** ~2.7 g/cm³
 - **Bulk Density:** 0.7–1.0 g/cm³
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10. Stability and Reactivity

- **Chemical Stability:** Stable under normal conditions.
 - **Incompatible Materials:** Acids (releases CO₂ gas).
 - **Hazardous Decomposition:** CO₂ upon reaction with acids.
 - **Reactivity:** Non-reactive under standard conditions.
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11. Toxicological Information

- **Acute Toxicity:** Non-toxic.
 - **Skin Irritation:** Not expected.
 - **Eye Irritation:** May cause mechanical irritation.
 - **Inhalation:** Dust may cause mild, temporary irritation.
 - **Carcinogenicity:** Not classified as carcinogenic.
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12. Ecological Information

- **Ecotoxicity:** Not harmful to aquatic or terrestrial life.
 - **Biodegradability:** Inorganic; not biodegradable.
 - **Environmental Fate:** Stable; does not bioaccumulate.
 - **Water Hazard Class:** Not hazardous.
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13. Disposal Considerations

- Dispose of in accordance with local regulations.
- Not classified as hazardous waste.

- Avoid generating airborne dust during disposal.

14. Transport Information (DETAILED INFORMATION)

UN Number: Not applicable — **Non-regulated material**

UN Proper Shipping Name: Not applicable

Transport Hazard Class: Non-hazardous

Packing Group: Not applicable

Environmental Hazards: Not environmentally hazardous

Special Precautions:

- Avoid releasing large quantities of dust during loading/unloading.
- Ensure packaging is secure to prevent spills.
- Keep away from strong acids to avoid CO₂ release during transport.

Transport in Bulk (IMDG/IMO):

- Not regulated; may be transported in standard bulk bags, HDPE bags, or drums.

ADR/RID (Road/Rail):

- Not classified as dangerous goods; no special labeling required.

IATA (Air Transport):

- Non-dangerous goods; no restrictions.

IMDG (Sea Transport):

- Not a marine pollutant; no special requirements.

Additional Notes:

- Product is safe for all modes of transport when stored properly.
- Use clean, dry containers to avoid contamination and moisture uptake.

15. Regulatory Information

- Not classified as hazardous under GHS.
- Complies with EP pharmacopoeial standards.
- No chemical safety assessment required for non-hazardous substances.

16. Other Information

The information provided is accurate to the best of our knowledge as of the revision date. It is intended for guidance in safe handling, storage, and transport. The user must verify suitability for specific applications.

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