

Material Safety Data Sheet (MSDS)

Product Name: Egg Shell Calcium Carbonate

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:** Egg Shell Calcium Carbonate
- **Chemical Name:** Calcium Carbonate
- **Synonyms:** Eggshell Powder, Natural Calcium Carbonate, Egg Shell Calcium
- **CAS Number:** 471-34-1
- **Molecular Formula:** CaCO_3
- **Molecular Weight:** 100.09 g/mol
- **Recommended Use:**

Pharmaceutical, Nutraceutical, Food Supplement, Animal Feed and Industrial Applications.

2. Hazard Identification

GHS Classification: This product is not classified as hazardous according to the Globally Harmonized System (GHS).

Potential Health Effects:

Inhalation: Excessive inhalation of dust may cause irritation of the nose, throat, and respiratory tract.

Skin Contact: Prolonged or repeated contact may cause mild skin irritation.

Eye Contact: Dust particles may cause temporary irritation, redness, and discomfort.

Ingestion: Low toxicity. Large amounts may cause mild gastrointestinal discomfort.

Environmental Hazards: No known significant environmental hazards.

Precautionary Statements

- Avoid breathing dust.
- Use adequate ventilation.
- Wear suitable personal protective equipment.
- Wash hands thoroughly after handling.

3. Composition / Information on Ingredients

Chemical Name: Calcium Carbonate

CAS Number: 471-34-1

Molecular Formula: CaCO_3

Source: Purified and processed eggshells

Purity: Typically 95–98% Calcium Carbonate

The product consists primarily of naturally derived calcium carbonate obtained from cleaned, sterilized, and processed eggshells. Minor naturally occurring minerals may be present in trace quantities.

4. First Aid Measures

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

Skin Contact: Wash thoroughly with soap and water.

Eye Contact: Immediately flush eyes with plenty of clean water for at least 15 minutes. Obtain medical attention if irritation continues.

Ingestion: Rinse mouth with water. Drink water. Seek medical attention if discomfort persists.

Most Important Symptoms

- Eye irritation
- Respiratory irritation

- Mild skin dryness

5. Fire Fighting Measures

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire conditions.

Unsuitable Extinguishing Media: None known.

Special Hazards: The product is non-flammable and does not support combustion.

Protective Equipment for Firefighters: Wear self-contained breathing apparatus and protective clothing.

6. Accidental Release Measures

Personal Precautions

- Avoid dust formation.
- Ensure adequate ventilation.
- Wear suitable respiratory protection when necessary.

Environmental Precautions

Prevent large quantities from entering drains, sewers, or waterways.

Methods for Cleanup

- Sweep or vacuum carefully.
- Collect material into suitable containers.
- Avoid generating airborne dust.

7. Handling and Storage

Handling

- Avoid excessive dust generation.
- Use appropriate ventilation.
- Follow good industrial hygiene practices.

Storage

- Store in tightly closed containers.
- Keep in a cool, dry, and well-ventilated area.
- Protect from moisture, contamination, and direct sunlight.

Recommended Storage Conditions: Store at ambient temperature in dry conditions.

8. Exposure Controls / Personal Protection

Engineering Controls: Provide adequate ventilation and dust control measures.

Personal Protective Equipment

Respiratory Protection: Dust mask or approved respirator when dust levels exceed recommended exposure limits.

Eye Protection: Safety glasses or protective goggles.

Hand Protection: Protective gloves.

Skin Protection: Protective work clothing as required.

9. Physical and Chemical Properties

Appearance: Fine off-white to white powder

Odor: Odorless

Physical State: Solid powder

pH (10% Suspension): Approximately 8.0 – 10.5

Melting Point: Decomposes above 825°C

Boiling Point: Not applicable

Bulk Density: Varies according to particle size and grade

Specific Gravity: Approximately 2.7

Solubility: Practically insoluble in water; soluble in dilute acids with release of carbon dioxide

Flash Point: Not applicable

Auto-Ignition Temperature: Not applicable

Explosive Properties: None

Oxidizing Properties: None

Vapor Pressure: Not applicable

Vapor Density: Not applicable

10. Stability and Reactivity

Reactivity: Stable under normal storage and handling conditions.

Chemical Stability: Stable under recommended conditions.

Conditions to Avoid

- Excessive moisture
- Contact with strong acids

Incompatible Materials: Strong acids.

Hazardous Decomposition Products: Carbon dioxide may be released when heated above decomposition temperature or upon reaction with acids.

11. Toxicological Information

Acute Toxicity: Low acute toxicity.

Skin Irritation: May cause mild irritation due to mechanical action.

Eye Irritation: May cause temporary irritation and redness.

Respiratory Effects: Dust may cause irritation of the respiratory tract.

Carcinogenicity: Not classified as carcinogenic.

Mutagenicity: No known adverse effects.

Reproductive Toxicity: No known adverse effects.

12. Ecological Information

Ecotoxicity: No known significant ecological hazards.

Persistence and Degradability: Naturally occurring mineral substance.

Bioaccumulative Potential: Not expected to bioaccumulate.

Mobility in Soil: Low mobility.

Environmental Impact: No significant environmental effects anticipated under normal use conditions.

13. Disposal Considerations

Dispose of product and packaging according to local, state, and national regulations.

Disposal Method

- Dispose through approved waste management facilities.
- Avoid uncontrolled release into waterways.

Contaminated Packaging: Dispose of in accordance with local regulations.

14. Transport Information (Detailed)

Egg Shell Calcium Carbonate is not classified as a hazardous material for transportation under international transport regulations. The product does not pose significant hazards during transportation when properly packaged and handled.

UN Number: Not regulated.

UN Proper Shipping Name: Not regulated.

Transport Hazard Class: Not regulated.

Packing Group: Not regulated.

Environmental Hazard: Not classified as environmentally hazardous.

Marine Pollutant: No.

Road Transport (ADR/RID)

The product is not classified as dangerous goods for road or rail transportation. It may be transported in sealed bags, fiber drums, HDPE drums, or other approved containers. Packaging should be protected against moisture, contamination, and physical damage during transit.

Sea Transport (IMDG)

Egg Shell Calcium Carbonate is not classified as dangerous goods under the International Maritime Dangerous Goods (IMDG) Code. The product is not considered a marine pollutant and does not require special segregation or labeling during shipment by sea. Containers should remain dry and securely closed throughout transportation.

Air Transport (IATA)

The product is not regulated as dangerous goods under International Air Transport Association (IATA) regulations. Standard cargo handling and packaging procedures are sufficient. Packaging should be designed to prevent leakage and minimize dust formation.

Special Transport Precautions

- Keep containers tightly sealed during transportation.
- Protect packages from moisture, rain, and excessive humidity.
- Prevent physical damage to bags, drums, and containers.
- Avoid generating airborne dust during loading and unloading.
- Do not transport with strong acids or incompatible materials.
- Maintain clean transport vehicles and containers.

Transport in Bulk According to MARPOL Annex II and IBC Code: Not applicable.

Emergency Transport Information: No special emergency transport measures are required. In case of accidental spillage during transportation, avoid dust generation, collect spilled material using appropriate methods, and dispose of according to local regulations.

15. Regulatory Information

Applicable Regulations

- Globally Harmonized System (GHS)
- Good Manufacturing Practices (GMP)
- Applicable food, pharmaceutical, nutraceutical, and feed regulations

Labeling Requirements: No hazard labeling required under normal conditions of use..

16. Other Information

The information contained in this Material Safety Data Sheet is believed to be accurate and is based on current knowledge and experience. It is intended solely as guidance for safe handling, storage, transportation, use, and disposal of the product and does not constitute a warranty of product properties.

- **MSDS Generate Date:** 20-05-2017
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- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.