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CIN: U24230GJ2011PTC064654

Material Safety Data Sheet (MSDS)

Product Name: Calcium Carbonate 39%

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Manufacturer / Supplier:

SBF Pharma

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

Product Name: Calcium Carbonate 39%

Chemical Name: Calcium Carbonate

Synonyms: Precipitated Calcium Carbonate, PCC, Chalk, Limestone Powder

CAS Number: 471-34-1

Molecular Formula: CaCO₃

Molecular Weight: 100.09 g/mol

2. Hazards Identification

GHS Classification: Not classified as hazardous under GHS criteria.

Potential Health Effects

Inhalation: Dust may cause irritation to the respiratory tract, nose, and throat.

Skin Contact: May cause mild mechanical irritation after prolonged contact.

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

Ingestion: Low toxicity. Excessive ingestion may cause gastrointestinal discomfort.

Environmental Hazards: Not expected to cause adverse environmental effects.

Precautionary Statements

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

3. Composition / Information on Ingredients

Chemical Name: Calcium Carbonate

CAS Number: 471-34-1

Molecular Formula: CaCO₃

Concentration: Approximately 39% Calcium Content

Purity: As per applicable specification

The product consists primarily of calcium carbonate with impurities maintained within established quality limits.

4. First Aid Measures

Inhalation: Move affected person to fresh air. Seek medical attention if symptoms persist.

Skin Contact: Wash thoroughly with soap and water.

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

Ingestion: Rinse mouth with water. Drink plenty of water. Seek medical advice if discomfort occurs.

Most Important Symptoms

- Eye irritation
- Respiratory tract irritation
- Mild skin dryness

5. Fire And Explosion Data

Suitable Extinguishing Media: Use extinguishing agents suitable for surrounding fire conditions.

Unsuitable Extinguishing Media: None known.

Special Hazards: Product is non-combustible and does not support combustion.

Protective Equipment: Firefighters should wear self-contained breathing apparatus and protective clothing.

6. Accidental Release Measures

Personal Precautions

- Avoid dust generation.
- Use respiratory protection where dust concentrations are excessive.

Environmental Precautions

Prevent large quantities from entering drains and watercourses.

Cleanup Methods

- Sweep or vacuum material carefully.
- Place in suitable containers for disposal.
- Avoid creating airborne dust.

7. Handling and Storage

Handling

- Avoid generating excessive dust.
- Ensure adequate workplace ventilation.
- Follow good industrial hygiene practices.

Storage

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

Recommended Storage Temperature

Ambient temperature.

8. Exposure Controls / Personal Protection

Exposure Controls: Provide local exhaust ventilation where dust may be generated.

Personal Protective Equipment

Respiratory Protection: Dust mask or approved respirator when exposure limits may be exceeded.

Eye Protection: Safety goggles or safety glasses.

Hand Protection: Protective gloves.

Skin Protection: Protective work clothing as necessary.

9. Physical and Chemical Properties

- **Appearance:** Fine 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 grade
 - **Specific Gravity:** Approximately 2.7
 - **Solubility:** Practically insoluble in water; soluble in dilute acids with effervescence
 - **Flash Point:** Not applicable
 - **Auto-Ignition Temperature:** Not applicable
 - **Explosive Properties:** None
 - **Oxidizing Properties:** None
 - **Vapor Pressure:** Not applicable
 - **Vapor Density:** Not applicable
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10. Stability and Reactivity

Reactivity: Stable under recommended storage conditions.

Chemical Stability: Stable under normal conditions.

Conditions to Avoid

- Excessive moisture
- Strong acid contact

Incompatible Materials: Strong acids.

Hazardous Decomposition Products: Carbon dioxide may be released upon decomposition at elevated temperatures.

11. Toxicological Information

- **Acute Toxicity:** Low acute toxicity.
 - **Skin Irritation:** May cause mild irritation due to mechanical abrasion.
 - **Eye Irritation:** May cause temporary discomfort and irritation.
 - **Respiratory Effects:** Dust may irritate the respiratory tract.
 - **Carcinogenicity:** Not classified as carcinogenic.
 - **Mutagenicity:** No known adverse effects.
 - **Reproductive Toxicity:** No known adverse effects.
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12. Ecological Information

- **Ecotoxicity:** Not considered harmful to aquatic organisms.
 - **Persistence and Degradability:** Naturally occurring mineral substance.
 - **Bioaccumulative Potential:** Not expected to bioaccumulate.
 - **Mobility in Soil:** Low mobility.
 - **Environmental Impact:** No significant environmental hazards known.
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13. Disposal Considerations

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

Recommended Disposal Method

- Dispose through approved waste management facilities.
- Prevent contamination of waterways.

Contaminated Packaging

Dispose of in accordance with applicable regulations.

14. Transport Information (DETAILED)

Calcium Carbonate 39% is not classified as a hazardous material for transportation under international, national, or regional transport regulations. The product does not present significant physical, health, or environmental hazards during transportation when handled and packaged appropriately.

UN Number: Not regulated.

UN Proper Shipping Name: Not regulated.

Transport Hazard Class: Not regulated.

Packing Group: Not regulated.

Environmental Hazard Classification: Not classified as environmentally hazardous.

Marine Pollutant Status: Not considered a marine pollutant.

Road Transport (ADR/RID)

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

Sea Transport (IMDG)

The product is not regulated as dangerous goods under the International Maritime Dangerous Goods (IMDG) Code. No special segregation, labeling, or stowage requirements are applicable. Containers should remain dry and securely closed throughout transportation.

Air Transport (IATA)

The product is not classified as dangerous goods under International Air Transport Association (IATA) regulations. Standard cargo handling procedures are adequate. Packaging should prevent leakage and minimize dust generation.

Special Transport Precautions

- Keep containers tightly closed.
- Protect from excessive moisture and humidity.
- Prevent damage to packaging during loading and unloading.
- Avoid generation of airborne dust.
- Store away from strong acids during transportation.
- Ensure good housekeeping practices during shipment.

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 transport, avoid dust formation and collect material using appropriate cleaning methods.

15. Regulatory Information

Applicable Regulations

- Globally Harmonized System (GHS)
- Good Manufacturing Practices (GMP)
- Applicable local and international chemical regulations

Labeling Requirements

No hazard labeling required under normal industrial use conditions.

16. Other Information

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

- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.sbfpharma.com
- MSDS are based on the manufacturer's provided information.