

## Material Safety Data Sheet CALCIUM CARBONATE

### Section 1: Chemical Product Identification

**Product Name:** Calcium Carbonate

**CAS #:** 471-34-1

**H.S CODE:** 28365000

**RTECS:** FF9335000

**TSCA:** TSCA 8 (b) inventory: Calcium Carbonate

**CI#:** Not available

**Chemical Name:** CALCIUM CARBONATE

**Chemical Formula:** CaCO<sub>3</sub>

### Section 2: Composition and Information on Ingredients

**Composition:**

Name	CAS #	% by Weight
Calcium Carbonate	471-34-1	100

**Toxicological Data on Ingredients:**

Calcium Carbonate: ORAL (LD50): Acute: 6450 mg/kg [Rat].

### Section 3: Hazards Identification

**Classification of the Substance or Mixture:**

No known OSHA hazards.

**Classification according to Regulation:**

Skin Corrosion/Irritation, Category 2: Mild Irritant

**Label Elements:**

**Labelling according to Regulation:**

GHS Signal Word	:	Warning
GHS Hazard Phrases	:	H315: Causes mild skin irritation.
GHS Precaution Phrases	:	No phrases apply.
GHS Response Phrases	:	P332+313: If skin irritation occurs, get medical advice/attention.
GHS Storage and Disposal Phrases	:	Please refer to Section 7 for Storage and Section 13 for Disposal information.

**Adverse Human Health:**

Causes mild skin irritation.

**Effects and Symptoms:**

Material may be irritating to the mucous membranes and upper respiratory tract.

May be harmful by inhalation, ingestion, or skin absorption.

May cause eye or respiratory system irritation.

To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

**Other Hazards:**

Other hazards not contributing to the classification: None under normal condition.

**Unknown acute toxicity (GHS-US):**

No data available.

**Section 4: First Aid Measures**

**Eye Contact:** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. WARM water MUST be used. Get medical attention.

**Skin Contact:** Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

**Serious Skin Contact:** Not available.

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Serious Inhalation:** Not available

**Ingestion:** Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

**Serious Ingestion:** Not available.

### Section 5: Fire and Explosion Date

**Flammability of the Product:** Non-flammable.

**Auto-ignition Temperature:** Not applicable.

**Flash Points:** Not applicable.

**Flammable Limits:** Not available

**Fire Fighting Media and Instructions:** Not applicable.

**Special Remarks on Fire Hazards:** Will ignite and burn fiercely in contact with fluorine.

**Special Remarks on Explosion Hazards:**

When a mixture of calcium carbonate and magnesium is heated in a current of hydrogen, a violent explosion occurs.

### Section 6: Accidental Release Measures

**Small Spill:**

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

**Large Spill:**

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

### Section 7: Handling and Storage

**Precautions:**

Do not ingest. Do not breathe dust. Avoid contact with eyes. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatible such as oxidizing agent, acids.

**Storage:** Keep container tightly closed. Keep container in a cool, well-ventilated area. Hygroscopic.

## Section 8: Exposure Controls/Personal Protection

### Engineering Controls:

Used process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limit. If user operations generated dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

### Personal Protection:

Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

### Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

### Exposure Limits:

TWA: 10 (mg/m<sup>3</sup>) from ACGIH (TLV) [United States] Inhalation Total. TWA: 10 STEL: 20 (mg/m<sup>3</sup>) [Canada] Inhalation Total: TWA: 5 (mg/m<sup>3</sup>) from OSHA (PEL) [United States] Inhalation Respirable. TWA: 15 from OSHA (PEL) [United States] Inhalation Total. Consult local authorities for acceptable exposure limits.

## Section 9: Physical and Chemical Properties

**Physical state and appearance:** Solid (Powdered solid).

**Odor:** Odorless.

**Taste:** Chalky

**Molecular Weight:** 100.09 g/mole

**Color:** White.

**pH (1% soln/water):** Not available.

**Boiling Point:** Not available

**Melting Point:** (1517°F) 825°C

**Critical Temperature:** not available.

**Specific Gravity:** 2.8 (Water = 1)

**Vapor Pressure:** Not applicable.

**Vapor Density:** Not available.

**Volatility:** Not available.

**Odor Threshold:** Not available.

**Water/Oil Dist. Coeff.:** Not available.

**Ionicity (in Water):** Not available.

**Dispersion Properties:** Not available.

**Solubility:** Very slightly soluble in cold water. Soluble in dilute acid. Insoluble in alcohol.

#### Section 10: Stability and Reactivity Data

**Stability:** The product is stable.

**Instability Temperature:** Not available.

**Condition of instability:** Incompatible materials.

**Incompatibility with various substances:** Reactive with oxidizing agents, acids.

**Corrosivity:** Non-corrosive in presence of glass.

**Special Remarks on Reactivity:**

Hygroscopic. Will ignite and burn fiercely in contact with fluorine. Incompatible with acids, alum, ammonium salts, mercury + hydrogen, aluminium, and magnesium.

**Special Remarks on Corrosivity:** not available.

**Polymerization:** Will not occur.

Section 11: Toxicological Information
<p><b>Routes of entry:</b> Inhalation, ingestion.</p> <p><b>Toxicity to animals. Acute oral toxicity (LD50):</b> 6450 mg/kg (Rat).</p> <p><b>Chronic Effects on Humans:</b> May cause damage to the following organs: Kidneys.</p> <p><b>Other Toxic Effects on Humans:</b> Slightly hazardous in case of skin contact (irritant), or ingestion, of inhalation.</p> <p><b>Special Remarks on Toxicity to animals:</b> Not available.</p> <p><b>Special Remarks on other Toxic effects on Humans:</b> <b>Acute Potential Health effects:</b> Skin irritation. <b>Eyes:</b> Dust causes eye irritation. <b>Inhalation:</b> Excessive inhalation causes respiratory tract ad mucous membrane irritation. Low hazard for usual industrial handling. <b>Ingestions:</b> ingestion of large amounts may cause gastro-intestinal tract disturbances with nausea and possibly constipation. Expected to be a low hazard for usual industrial handling. <b>Chronic Potential Health Effects:</b> Chronic ingestion may affect kidneys, and may cause hypercalcemia with alkalosis.</p>

Section 12: Ecological Information
<p><b>Ecotoxicity:</b> Not available.</p> <p><b>BOD5 and COD:</b> Not available.</p> <p><b>Products of Biodegradation:</b> Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.</p> <p><b>Toxicity of the Products of Biodegradation:</b> The product itself and its products of degradation are not toxic.</p> <p><b>Special Remarks on the Products of Biodegradation:</b> Not available.</p>

Section 13: Disposal Considerations
<p><b>Waste Disposal:</b> Waste must be disposed of in accordance with federal, state and local environmental control regulations.</p>

#### Section 14: Transport Information

**DOT Classification:** Not a DOT controlled material (United State).

**Identification:** Not applicable

**ICAO/IATA-DGR:** None Allocated

**ADNR:** None Allocated

**Special Provisions for Transport:** Not Applicable

#### Section 15: Other Regulatory Information

**Federal and state regulations:** TSCA 8 (b) inventory: Calcium Carbonate

**Other Regulations:** EINECS: this product is on the European Inventory of Existing Commercial Chemical Substances.

**Other Classifications:**

**WHMIS (Canada):** not controlled under WHMIS (Canada).

**DSCL (EEC):**

R36-Irritating to eyes. S2-keep out of the reach of children. S46- if swallowed, seek medical advice immediately and show this container or label.

**HMIS (USA):**

**Health Hazard: 2**

**Fire Hazard: 0**

**Reactivity: 0**

**Personal Protection: E**

**National Fire Protection Association (USA):**

**Health: 1**

**Flammability: 0**

**Reactivity: 0**

**Protective Equipment:**

Gloves, lab coat, dust respirator. Be sure to use an approved/certified respirator or equivalent. Splash goggles.

#### Section 16: Other Information

**References:** Not available.

**Other Special Considerations:** Not Available.

**Revision Date:** 31/12/2021