

# MATERIAL SAFETY DATA SHEET

Product: **Calcium Carbonate**

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## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### Material Identity

Product Name: Calcium Carbonate, Powder

Product Code: CH-471341A and/or CH-471341B

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

General or Generic ID: Carbonic acid, calcium salt (1:1); Calcium Monocarbonate

### Company

ArtChemicals.com

2250 Davis Street

San Leandro, CA 94577-2204

510-639-4670

### Emergency Telephone Number:

1-800-451-8346

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## 2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>CAS No.</u>	<u>Chemical Identity</u>	<u>Common Name</u>	<u>%</u>
471-34-1	N/A	Calcium Carbonate	100

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## 3. HAZARDS IDENTIFICATION

### Potential Health Effects

#### Eye:

Hazardous in case of eye contact (irritant). Symptoms include stinging, tearing, redness and impairment of vision. The degree of injury will depend on the amount of material that gets into the eye and the speed and thoroughness of the first aid treatment.

#### Skin:

Hazardous in case of skin contact (irritant). Symptoms may include redness, burning of skin, or, occasionally, blistering. The degree of injury will depend on the amount of material that gets on the skin and the speed and thoroughness of the first aid treatment.

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**Ingestion:**

Slightly hazardous in case of ingestion. Inhalation of dust will produce irritation to gastrointestinal tract.

**Inhalation:**

Slightly hazardous in case of inhalation. Breathing in large amounts may cause respiratory irritation, burning, sneezing and coughing.

**Symptoms of Exposure:**

Not available.

**Development Information:**

Not available.

The substance may be toxic to kidneys.

Repeated or prolonged exposure to the substance can produce target organs damage.

**Cancer Information:**

Not available.

**Primary Route(s) of Entry:**

Inhalation, skin absorption, skin contact, and eye contact.

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## 4. FIRST AID MEASURES

**Inhalation:**

If affected, promptly remove individual to fresh air. If not breathing, give artificial respiration. Get medical attention.

**Ingestion:**

Do NOT induce vomiting, unless directed by medical personnel. Seek medical attention. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Do not leave individual unattended. Loosen tight clothing such as collar, tie, belt or waistband. Get medical attention if symptoms appear.

**Eyes:**

Remove contact lenses if worn. Spread eyelids with fingers and flush eye for minimum of 15 minutes with water; keep rotating the eyes to ensure complete flushing. WARM water MUST be used. Do not use an eye ointment. Seek medical attention.

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**Skin:**

Immediately remove contaminated clothing and thoroughly flush skin with plenty of water (15 minutes). Wash thoroughly with soap and water. Seek medical attention if irritation develops. Launder clothing before reuse.

**Note to Physicians:**

Not available.

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## 5. FIRE FIGHTING MEASURES

**Flash Point:** Non-flammable. Not available.

**Explosive Limit:** Not applicable.

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

**Hazardous Products of Combustion:** Not available.

**Extinguishing Media:** Not applicable.

**SPECIAL FIRE-FIGHTING PROCEDURES:** Will ignite and burn fiercely in contact with fluorine. When a mixture of calcium carbonate and magnesium is heated in a current of hydrogen, a violent explosion occurs.

**NFPA CODES:** Health = 2                      Flammability = 0                      Reactivity = 0

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## 6. PRECAUTIONS FOR SAFE HANDLING AND USE

**Steps To Be Taken In Case Material Is Released Or Spilled:**

**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 and 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.

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## 7. PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep container tightly closed. Keep container in a cool, well-ventilated area. Hygroscopic. 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 incompatibles such as oxidizing agents, acids.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### **Respiratory Protection:**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Be sure to use an approved/certified respirator or equivalent.

### **Skin Protection:**

Wear resistant gloves. To prevent repeated or prolonged skin contact, wear impervious clothing and boots or lab coat.

### **Eye Protection:**

Chemical splash goggles in compliance with OSHA regulations are advised. Face shield. Ensure that eyewash stations and safety showers are proximal to the work-station location.

### **Other Protective Clothing or Equipment:**

Provide sufficient mechanical ventilation to maintain exposure below level of overexposure. Boots. Full suit. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling product.

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.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance and Odor:** White powdered solid. (Odorless).

**Molecular Weight:** 100.09 g/mole

**pH:** Not available.

**Boiling Point:** Not available.

**Melting Point:** 825 °C (1517 °F).

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

**Vapor Pressure:** Not applicable.

**Evaporation Rate:** Not available.

**Solubility in Water:** Very slightly soluble in cold water. Insoluble in alcohol.

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## 10. STABILITY AND REACTIVITY

**Incompatibility:** Reactive with oxidizing agents and acids.

**Stability:** Stable.

**Hazardous Decomposition:** N/A

**Hazardous Polymerization:** Will not occur.

**SPECIAL REMARKS ON REACTIVITY:** Hygroscopic. Will ignite and burn fiercely in contact with fluorine. Incompatible with acids, alum, ammonium salts, mercury + hydrogen, aluminum and magnesium.

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## 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity (LD50): 6450 mg/kg [Rat].

Acute Potential Health Effects:

Skin: Causes skin irritation.

Eyes: Dust causes eye irritation.

Inhalation: Excessive inhalation causes respiratory tract and mucous membrane irritation. Low hazard for usual industrial handling.

Ingestion: Ingestion of large amounts may cause gastrointestinal tract disturbances with nausea, vomiting, and possibly constipation. Expected to be a low hazard for usual industrial handling.

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## Chronic Potential Health Effects:

Chronic ingestion of larger amounts may cause nausea, vomiting, anorexia, and may affect kidneys. It may also cause hypokalema, hypercalcemia, metabolic alkalosis, leukocytosis, "milk-alkali syndrome" (characterized by irritability, fatigue, lethargy, stupor, and coma).

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## 12. ECOLOGICAL INFORMATION

Not available.

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise. The product itself and its products of degradation are NOT toxic.

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## 13. DISPOSAL CONSIDERATION

### Waste Disposal Method:

Dispose of in accordance with all applicable local, state and federal regulations.

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## 14. DOT SHIPPING NAME & IDENTIFICATION:

NON-REGULATED. Not a DOT controlled material (United States).

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## 15. OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be, whether originating with the company or not. Recipients are advised to confirm in advance of need that information is current, applicable, and suitable to their circumstances.