

MATERIAL SAFETY DATA SHEET

NFPA	HMIS	Personal Protective Equipment
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Health Hazard	2
Fire Hazard	0
Reactivity	0



See Section 8.

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product code:	C1078
Product Name:	CALCIUM CARBONATE, LIGHT POWDER, FCC
Chemical Name:	No information available
Synonyms:	Carbonic acid, calcium salt (1:1) Calcium Monocarbonate Aglime Aragonite Atomite Calcite Chalk Limestone
Recommended use:	In manufacturing of paint, rubber, plastics, paper, dentifrices, ceramics, putty, polishes, insecticides, inks, shoe dressings; in foods, cosmetics, pharmaceuticals, antibiotics, crayons, linoleum, insulating compounds, welding rods; as a filler in production of adhesives, matches, pencils; removing acidity of wines; in analytical chemistry for detecting and determining halogens in organic combinations; neutralizing agent; source of lime; portland cement; whitewash.
CAS #:	471-34-1
RTECS #	FF9335000
Formula:	CaCO ₃
CI#:	Not available
Supplier:	Spectrum Chemicals and Laboratory Products, Inc. 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000
Order Online At:	https://www.spectrumchemical.com
Emergency Telephone Number:	CHEMTREC: 1-800-424-9300
Contact Person:	Regina Wachenheim (East Coast)
Contact Person:	Martin LaBenz (West Coast)

2. HAZARDS IDENTIFICATION

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EMERGENCY OVERVIEW

WARNING! IRRITANT

Irritating to eyes

Irritating to skin

None. Odorless.

Physical state:
Solid.

Appearance:
Powder.

Color:
White.

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

POTENTIAL HEALTH EFFECTS

Principal Routes of Exposure:

Ingestion. Inhalation.

Acute Potential Health Effects:

Skin Contact:

Causes skin irritation.

Eye Contact:

Causes eye irritation. When Calcium Carbonate is in powdered form, contact with eyes causes eye irritation.

Inhalation:

May cause irritation of respiratory tract.

Ingestion:

Expected to be a low hazard for usual industrial handling. May cause gastrointestinal disturbances. May cause nausea and vomiting. May cause constipation. Chronic ingestion may cause hypercalcemic syndrome (hypercalcemia) and alkalosis. See section 11 for symptoms..

Chronic Potential Health Effects:

Component

Calcium Carbonate
471-34-1 (100)

Carcinogen Status:

No information available

Target Organs:

No information available

Mutagenic Effects:

No information available

Teratogenic Effects:

No information available

Aggravated Medical Conditions: No information available

See Section 11 for additional Toxicological Information

POTENTIAL ENVIRONMENTAL EFFECTS

No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

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Components	CAS-No.	Weight %
Calcium Carbonate	471-34-1	100

4. FIRST AID MEASURES

General Advice:	Poison information centres in each State capital city can provide additional assistance for scheduled poisons (13 1126). First aider needs to protect himself. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Skin Contact:	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention. If skin irritation persists, call a physician.
Eye Contact:	Flush eye with water for 15 minutes. Get medical attention.
Inhalation:	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion:	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.
Notes to Physician:	Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flammable Properties

Flashpoint (°C/°F):	No information available.
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Flash Point Tested according to: Not applicable

Lower Explosion Limit (%):	No information available
Upper Explosion Limit (%):	No information available

Autoignition Temperature (°C/°F):	No information available
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Suitable Extinguishing Media:	The product is not flammable. If it is involved in a fire, extinguish the fire using an agent suitable for the type of surrounding fire.
Unsuitable Extinguishing Media:	No information available.
Hazardous Combustion Products:	Carbon dioxide; Calcium oxides
Specific hazards:	The substance itself does not burn, but may decompose upon heating. When heated to decomposition it emits acrid smoke and irritating fumes. Will ignite and burn fiercely in contact with fluorine.
Special Protective Equipment for Firefighters:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear
Specific Methods:	No information available.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Avoid dust formation.

Environmental Precautions:

Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up:

Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

Safe Handling Advice:

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not ingest. Do not breathe vapours/dust. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

Storage

Technical Measures/Storage Conditions:

Hygroscopic. Protect from moisture. Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

Incompatible Materials:

Acids. Fluorine. Alum. ammonium salts. Magnesium. Mercury + Hydrogen.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure:

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

Personal Protective Equipment

Eye protection: Goggles.

Skin and body protection: Long sleeved clothing. Chemical resistant apron. Gloves.

Respiratory protection: Wear respirator with dust filter..

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

National occupational exposure limits

United States

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
Calcium Carbonate - 471-34-1	None	10 mg/m ³ TWA 5 mg/m ³ TWA	None	None

Canada

Components	Alberta	British Columbia	Ontario	Quebec
Calcium Carbonate 471-34-1	10 mg/m ³ TWA	None	None	10 mg/m ³ TWAEV total dust

Australia and Mexico

Components	Australia	Mexico
Calcium Carbonate 471-34-1	10 mg/m ³ TWA	None

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:

Solid.

Appearance:

Powder.

Color:

White.

Odor:

None. Odorless.

Taste

Chalky.

Molecular/Formula weight:

100.09

Flash point (°C):

No data available

Lower Explosion Limit (%):

No information available

Upper Explosion Limit (%):

No information available

Autoignition Temperature (°C/°F):

No information available

Melting point/range(°C/°F):

No information available

Boiling point/range(°C/°F):

No information available

pH:

No information available

Specific gravity:

No information available

Density (g/cm³):

2.7-2.9 @ 20 °C

Decomposition temperature(°C/°F):

825 °C/1517 °F

Bulk density:

No information available

Vapor pressure @ 20°C (kPa):

No information available

Evaporation rate:

No information available

Vapor density:

No information available

VOC content (g/L):

No information available

Odor threshold (ppm):

No information available

**Partition coefficient
(n-octanol/water):**

No information available

Miscibility:

No information available

Solubility:

Practically insoluble in water

Insoluble in alcohol

Soluble in dilute acids

10. STABILITY AND REACTIVITY

Stability:

Stable at normal conditions

Conditions to avoid:

Heat. Avoid dust formation. Incompatible materials.

Incompatible Materials:

Acids. Fluorine. Alum. ammonium salts. Magnesium. Mercury + Hydrogen.

Hazardous decomposition products:

When heated to decomposition it emits acrid smoke and irritating fumes. Carbon dioxide. Calcium oxides.

Possibility of Hazardous Reactions: When a mixture of calcium carbonate and magnesium is heated in a current of hydrogen, a violent explosion occurs
Will ignite and burn fiercely in contact with fluorine

Polymerization: Hazardous polymerisation does not occur

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component Information

Calcium Carbonate - 471-34-1

LD50/oral/rat = 6450 mg/kg Oral LD50 Rat
LD50/oral/mouse = No information available
LD50/dermal/rat = No information available
LD50/dermal/rabbit = No information available
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50 information = No information available

Product Information

LC50/inhalation/rat No information available
LC50/Inhalation/mouse No information available
LD50/dermal/rabbit No information available
LD50/dermal/rat No information available
LD50/oral/mouse = No information available
LD50/oral/rat = 6450mg/kg

Local Effects

Skin irritation: Causes skin irritation.

Eye irritation: Causes eye irritation. When Calcium Carbonate is in powdered form, contact with eyes causes eye irritation.

Inhalation: May cause irritation of respiratory tract

Ingestion: Low hazard. May cause gastrointestinal disturbances. Ingestion may cause nausea, vomiting. May cause constipation.

Sensitization: No information available

Chronic Toxicity

Chronic Toxicity

Chronic ingestion of large amounts may cause hypercalcemia, which is characterized by nausea, vomiting, constipation, anorexia (loss of appetite), fatigue, severe dryness of the mouth, acute drowsiness, fatigue, irritability, headache, confusion, mental depression, excessive/frequent and painful urination, high blood pressure (hypertension), fast or slow heartbeat. It may also cause hypophosphatemia, hypokalemia, metabolic alkalosis, leukocytosis. It may also affect the urinary system (kidneys) and cause hypercalcuria, alkaluria, kidney stones, and renal impairment. When larger doses of Calcium Carbonate are administered with milk or cream for the management of peptic ulcer, "milk-alkali syndrome" can occur. It is characterized by hypercalcemia and calcium deposits in the kidneys (kidney stones).

Carcinogenic effects: Not considered carcinogenic.

Components	NTP	IARC	OSHA HCS - Carcinogens	ACGIH - Carcinogens	Australia - Prohibited Carcinogenic Substances	Australia - Notifiable Carcinogenic Substances
Calcium Carbonate	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects: No information available

Reproductive Effects: No information available

Teratogenic Effects: No information available

Target Organs: No information available

12. ECOLOGICAL INFORMATION

ECOTOXICITY

Toxicity to terrestrial and aquatic plants and animals: No information available

Ecotoxicity effects: No data available.

Aquatic toxicity: No information available

Mobility: No information available

Persistence and degradability: No information available

Bioaccumulative potential: No information available.

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Calcium Carbonate	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No: Not regulated

Proper Shipping Name: No information available
Hazard Class: No information available
Packing Group: None
Subsidiary Risk: Not applicable
Marine Pollutant: No data available
ERG No: No information available
DOT RQ (lbs): No information available

TDG (Canada)

UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Packing Group: No information available
Subsidiary Risk: No information available
Description: No information available

ADR

UN-No: No information available
Proper Shipping Name: No information available
Hazard Class: No information available
Packing Group: No information available
Subsidiary Risk: No information available
Classification Code: No information available
Description: No information available
CEFIC Tremcard No: No information available

IMO / IMDG

UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Packing Group: No information available
Subsidiary Risk: No information available
Description: No information available
IMDG Page: No information available
Marine Pollutant: No information available
MFAG: No information available
Maximum Quantity: No information available

RID

UN-No: No information available
Proper Shipping Name: No information available
Hazard Class: No information available
Packing Group: No information available
Subsidiary Risk: No information available
Classification Code: No information available
Description: No information available

ICAO

UN-No: No information available
Proper Shipping Name: No information available
Hazard Class: No information available
Packing Group: No information available
Subsidiary Risk: No information available
Description: No information available

IATA

UN-No: Not Regulated
Proper Shipping Name: No information available

Hazard Class: No information available
Packing Group: No information available
Subsidiary Risk: No information available
Description: No information available

15. REGULATORY INFORMATION

International Inventories

Components	U.S. TSCA	Philippines (PICCS)	KOREA KECL	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Calcium Carbonate	Present	Present	Present KE-04487	Present (1)-122	Present	Present	Present 207-439-9

U.S. Regulations

Calcium Carbonate

FDA - Food Additives Generally Recognized as Safe (GRAS): 21 CFR 184.1191

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
Calcium Carbonate	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Components	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting <i>de minimis</i>
Calcium Carbonate	None	None	None	None	None

U.S. TSCA

Components	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Calcium Carbonate	Not Applicable	Not Applicable

Canada

WHMIS hazard class:

Non-controlled

Calcium Carbonate

Uncontrolled product according to WHMIS classification criteria

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Inventory

Product code: C1078

Product name: CALCIUM CARBONATE, LIGHT POWDER, FCC

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Calcium Carbonate

Components	Canada (DSL)	Canada (NDSL)
Calcium Carbonate	Present	Not Listed

Components	CEPA Schedule I - Toxic Substances	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Calcium Carbonate	Not listed	Not listed

EU Classification**R-phrase(s)**

not determined
none

S -phrase(s)

none

Components	Classification	Concentration Limits:	Safety Phrases
Calcium Carbonate		No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

None.

16. OTHER INFORMATION

The MSDS format complies with ANSI Z400.1/Z129.1-2010 standards.

Preparation Date: 24-Apr-2014

Reason for revision: Not applicable

Prepared by: Sonia Owen

Literature reference: No information available

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. The physical properties reported in this MSDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.