



Safety Data Sheet
Agricultural Liming Agent

Revision date:
August 31, 2018

1. Identification

Product Name: Agricultural Liming Agent
Synonyms: none
Recommended Uses: Soil amendment, pH adjustment, construction and fill material.
Manufacturer: Carmeuse Lime & Stone

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Emergency Contact: Infotrac: (800) 535-5053 (24 hrs a day, 7 days a week)

2. Hazards Identification

GHS classification	Physical Hazards	None
	Health Hazards	
	Skin Irritation	Category 2
	Eye Damage	Category 1
	Carcinogenicity	Category 1A
	Specific Target Organ Toxicity – Single Exposure	Category 3
Specific Target Organ Toxicity – Repeated Exposure	Category 1	

GHS Label Elements:	Signal Word:	Danger
	Hazard Statements:	Causes skin irritation. Causes serious eye damage. May cause respiratory irritation. May cause cancer through inhalation Causes damage to lungs through prolonged or repeated exposure by inhalation.
	Precautionary Statements:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep container tightly closed Do not breathe dust. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in well-ventilated area Wear protective gloves, clothing and eye protection

Pictograms:



3. Composition

<u>Chemical name</u>	<u>% by weight</u>	<u>CAS#</u>
Calcium Carbonate (CaCO ₃)	35 - 70	1317-65-3
Calcium hydroxide (Ca(OH) ₂)	15 - 40	1305-62-0
Calcium Magnesium Oxide (CaMgO ₂)	< 5	1305-788
Silica, Amorphous (SiO ₂)	2 - 5	7631-86-9
Iron Oxide (Fe ₂ O ₃)	< 2	1309-37-1
Silica, crystalline quartz (SiO ₂)	< 0.5	14808-60-7

4. First Aid Measures

- Eyes:** Immediately flush eyes with generous amounts of water for at least 15 minutes. Pull back the eyelid to ensure that all lime dust has been washed out. Seek medical attention immediately. Do not rub eyes.
- Skin:** Wash exposed area with large amounts of water. Seek medical attention immediately.
- Ingestion:** Do not induce vomiting. Seek medical attention immediately. Never give anything by mouth unless instructed to do so by medical personnel.
- Inhalation:** Move victim to fresh air. Seek medical attention if necessary. If breathing has stopped, give artificial respiration
- Most Important Symptoms:** Irritation of skin, eyes, gastrointestinal tract or respiratory tract.
- Immediate medical attention / special treatment?** See first aid information above. Note to Physicians: Provide general supportive measures and treat symptomatically.



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5. Fire Fighting Measures

Suitable (and unsuitable) fire extinguishing media:	Use fire extinguishing media appropriate for surroundings.
Specific hazards arising from the product	Inhalation, skin or eye contact, can result in serious injury. This product is not combustible or flammable. This product is not considered to be an explosion hazard. Hazardous Combustion Products: None.
Special protective equipment and precautions for fire fighters	Wear full fire-fighting turn-out gear (full Bunker gear), and respiratory protection (SCBA) to prevent inhalation, skin or eye contact.

6. Accidental Release Measures

Personal precautions, protective equipment, emergency procedures:

Avoid inhalation, eye and skin contact. Avoid generating airborne dust. Wear appropriate protective clothing as described in section 8.

Methods and materials for containment and clean up:

Utilize cleanup methods that minimize generating dust: vacuum. Residue on surfaces may be removed with copious amount of water or vinegar.

7. Handling & Storage

Safe Handling:	Avoid inhalation, skin and eye contact. Avoid generating airborne dust. An eye wash station should be readily available when this product is handled.
Safe Storage:	Keep in tightly closed containers. Protect containers from physical damage. Store in a cool, dry, and well-ventilated location. Do not store near incompatible materials (see Section 10 below). Long-term storage in aluminum containers is not recommended, as calcium oxide may corrode aluminum over long periods of time

8. Exposure Controls/Personal Protection

Occupational Exposure Limits

	OSHA PEL (mg/m ³)	ACGIH TLV (mg/m ³)	Ont. Reg. 833 TWAEV (mg/m ³)
Calcium Carbonate	15 5 (respirable)	10	10
Calcium hydroxide	15 (total) 5 (respirable)	5	5
Calcium Magnesium Oxide	5	2	2
Silica, amorphous	80 / % silica	6	10
Iron Oxide	10 (total) 5 (Respirable)	5 (respirable)	5 (respirable)
Silica, crystalline quartz	30 / (% silica +2) (total) 10 / (% silica +2) (respirable)	0.025 (respirable)	0.1 (respirable)

Engineering Controls: Use with adequate general or local exhaust ventilation and to maintain exposure below occupational exposure limits.

Individual Protection Measures (Personal Protective Equipment):

Specific Eye / Face Protection: Safety glasses with side shields. In windy conditions, or if work activity generates elevated airborne dust levels, dust proof or chemical goggles are recommended. Contact lenses should not be worn.

Specific Skin Protection: When there is a risk of skin contact, wear appropriate clothing and gloves to prevent contact.

Specific Respiratory Protection: If exposure limits are exceeded, an approved particulate respirator, or supplied air respirator, appropriate for the airborne concentrations, should be used. Selection and use of the respiratory protective equipment must be in accordance with applicable regulations and good industrial hygiene practices.

Other: An emergency eye wash fountain and shower are recommended.

9. Physical & Chemical Properties

Appearance:	Gray
Odor:	Odorless
Odor threshold:	Not Applicable
pH at 25 degrees C:	12.43
Melting Point:	Not Available.
Boiling Point and range:	Not Applicable
Flash Point:	Not Applicable
Evaporation Rate:	Not Applicable
Flammability:	Not Applicable
Upper/lower flammability or explosive limits	Not Applicable
Vapor pressure/density:	Non Volatile
Relative density:	2.24
Density	2.6 – 2.8 g/cm ³
Bulk Density	200 – 300 kg/m ³
Specific Gravity	2.65 – 2.75 (dry)
Solubility:	0.00066 g/100 g Slightly soluble in water: 0.2% @ 0 °C. Soluble in acids, glycerin, and sugar solutions
Partition coefficient: n-octanol/water	Not applicable
Auto-ignition temperature:	Not Available
Decomposition temperature:	540 – 1076 °C
Viscosity:	Not Applicable

10. Stability & Reactivity

Reactivity:	Reacts with acids to form calcium salts, releasing heat. Reacts with carbon dioxide in air to form calcium carbonate. See also Incompatibility below.
Chemical stability:	Stable under normal storage and handling conditions.
Possibility of Hazardous Reactions:	See “reactivity” above.
Conditions to avoid:	Vicinity of incompatible materials.
Incompatibility:	This product should not be mixed or stored with the following materials, due to the potential for violent reaction and release of heat: <ul style="list-style-type: none">• acids• reactive fluoridated compounds• reactive brominated compounds• reactive powdered metals• reactive phosphorous compounds• aluminum powder• organic acid anhydrides• nitro-organic compounds• interhalogenated compounds
Hazardous decomposition products:	None

11. Toxicological Information

Likely routes of exposure & symptoms:

Eyes:	Contact can cause severe irritation or burning of eyes, including permanent damage.
Skin:	Contact can cause severe irritation or burning of skin, especially in the presence of moisture.
Ingestion:	This product can cause severe irritation or burning of gastrointestinal tract if swallowed.
Inhalation:	This product can cause severe irritation of the respiratory system.
Chronic health effects:	This product contains trace amounts of crystalline silica. Prolonged or repeated inhalation of respirable crystalline silica can cause silicosis, as serious lung disease.
Respiratory or skin sensitization:	This material is not known to cause sensitization
Germ cell mutagenicity:	No data available.



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Carcinogenicity:	This product is not listed as carcinogenic by OSHA, IARC, NTP, ACGIH, or the EU Directives. This product may contain trace amounts of crystalline silica quartz which is listed by IARC as "Carcinogenic to Humans" (Group 1) and "Known to be a Human Carcinogen" by NTP (National Toxicology Program).
Reproductive toxicity:	No Data Available.
Numerical Measures of Toxicity	Crystalline Silica: Oral Rat LD ₅₀ > 22,500 mg/kg Calcium Dihydroxide: Oral (rat) LD ₅₀ : 7340 mg/kg

12. Ecological Information

Because of the elevated pH of this product, it might be expected to produce some ecotoxicity upon exposure to certain aquatic organisms and aquatic systems in high concentrations
This material shows no bioaccumulation effect or food chain concentration toxicity.

13. Disposal Considerations

Dispose of contents in accordance with federal, state, provincial and local regulations.

14. Transport Information

Not regulated by Department of Transportation, Transport of Dangerous Goods

15. Regulatory Information

CERCLA Hazardous Substances	Not listed
SARA Toxic Chemical (40 CFR 372.65)	Not listed
SARA Section 302 Extremely Hazardous Substances (40 CFR 355)	Not listed
SARA 311/312	Not listed
SARA Section 313 Toxic Chemicals reporting requirements	None
Threshold planning quantity (TPQ)	Not listed
RCRA Hazardous Waste Classification (40 CFR 261)	Not Classified
EPA Toxic Substances Control Act (TSCA) Status	All of the components of this product are listed on the TSCA
California Proposition 65	Airborne crystalline silica particulates of respirable size are known to the State of California to cause cancer.
NFPA ratings	Health: 3 Fire: 0 Reactivity: 0
HMIS Ratings	Health: 3 Fire: 0 Reactivity: 0 Personal protection: E
OSHA Specifically regulated substance (29 CFR 1910)	Not listed
OSHA Air contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A)	Listed
MSHA	Not listed



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Canada DSL

Listed

Canadian WHMIS Classification

D2A, Materials Causing other toxic effects.

E, Corrosive Material



Canada CPR

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation of a Canada and this SDS contains all the required information.

16. Other Information

List of GHS Hazard Statements:
 H315: Causes skin irritation
 H318: Causes serious eye damage
 H335: May cause respiratory irritation.
 H350: May cause cancer through inhalation

List of GHS Precautionary Statements:
 P201: Obtain special instructions before use.
 P202: Do not handle until all safety precautions have been read and understood.
 P233: Keep container tightly closed
 P260: Do not breathe dust.
 P264: Wash thoroughly after handling.
 P270: Do not eat, drink or smoke when using this product.
 P271: Use only outdoors or in well-ventilated area
 P280: Wear protective gloves, clothing and eye protection

Abbreviations

CERCLA	Comprehensive Environmental Response, Compensation and Liability Act	RCRA	Resource Conservation and Recovery Act
SARA	Superfund Amendments and Reauthorization Act	IARC	International Agency for Research on Cancer
NTP	National Toxicology Program		

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