

Revision date: July 11, 2019

1. Identification

Product Name:	Agricultural Liming Agent			
Synonyms:	none	none		
Recommended Uses:	Soil amendment, pH adjustr	nent, constructio	n and fill material.	
Manufacturer:	Carmeuse Americas			
	<u>US Office</u> 11 Stanwix Street, 21 st Floor Pittsburgh, PA 15222 Phone: (412) 995-5500 Fax: (412) 995-5594		<u>Canadian Office</u> PO Box 190 Ingersoll, ON N5C 3K5 Phone: (519) 423-6283 Fax: (519) 423-6545	
Emergency Contact:	Infotrac: (800) 535-5053	(24 hrs a day, 7 d	days a week)	

2. Hazards Identification

GHS	Physical Hazards		
classification	tion None		
	Health Hazards	i	
	Skin Irrit	ation	Category 2
	Eye Dan	nage	Category 1
	Carcino	genicity	Category 1A
	Specific	Target Organ Toxicity – Single Exposure	Category 3
	Specific	Target Organ Toxicity – Repeated Exposure	Category 1
GHS Label	Signal Word:	Danger	
Elements:	Hazard Statements:	Causes skin irritation. Causes serious eye damage. May cause respiratory irritation. May cause cancer through inhalation Causes damage to lungs through prolonged o	or repeated exposure by
	Precautionary Statements:	 inhalation. Obtain special instructions before use. Do not handle until all safety precautions have understood. Keep container tightly closed Do not breathe dust. Wash thoroughly after handling. Do not eat, drink or smoke when using this p Use only outdoors or in well-ventilated area Wear protective gloves, clothing and eye pro- 	ve been read and roduct.





Agricultural Liming Agent

Revision date: July 11, 2019

Pictograms:



3. Composition

Chemical name	<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	37247-91-9
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:	n: 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 breat give artificial respiration		Seek medical attention if necessary. If breathing has stopped,	
Most Important Irritation of s Symptoms:		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.	



Revision date: July 11, 2019

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

<u> </u>	
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



Safety Data Sheet

Agricultural Liming Agent

Revision date: July 11, 2019

8. Exposure Controls/Personal Protection

Occupational Exposure Limits			
	OSHA PEL (mg/m³)	ACGIH TLV (mg/m ³)	Ont. Reg. 833 TWAEV (mg/m³)
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, cristobalite and tridymite	0.05 (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.



Revision date: July 11, 2019

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	ve limits Not Applicable
Vapor pressure/density:	Non Volatile
Relative density:	2.24
Density	<mark>2.6 – 2.8 g/cm³</mark>
Bulk Density	<mark>200 – 300 kg/m³</mark>
Specific Gravity	<mark>2.65 – 2.75 (dry)</mark>
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



Revision date: July 11, 2019

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: 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:	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 gastrointestina swallowed.		ation or burning of gastrointestinal tract if
Inhalation: This product can cause severe irritation of the respiratory system.		ation of the respiratory system.
Chronic health effeo	-	s trace amounts of crystalline silica. Prolonged or of respirable crystalline silica can cause silicosis, as
Respiratory or skin sensitization:	This material is not k	nown to cause sensitization
Germ cell mutageni	ty: No data available.	



Safety Data Sheet

Revision date: July 11, 2019

Agricultural Liming Agent

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 Diydroxide: 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 liste	d	
SARA Toxic Chemical (40 CFR 372.65)			Not liste	d	
SARA Section 302 Extremely Hazardous Substances (40 CFR 355)			Not liste	d	
SARA 311/312			Not liste	d	
SARA Section 313 Toxic Chemicals reporting requirements			None		
Threshold planning quantity (TPQ)			Not liste	d	
RCRA Hazardous Waste Classification (40 CFR 261)			Not Clas	sified	
EPA Toxic Substances Control Act (TSCA) Status	The components of this product are each listed on the TSCA Inventory List in the "active" status				
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 prote	ction: E
OSHA Specifically regulated substance (29 CFR 1910)			Not liste	d	
OSHA Air contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A) Listed					
MSHA	Not listed				



Safety Data Sheet

Agricultural Liming Agent

Revision date: July 11, 2019

Canada DSL		Listed			
Canadian WHMIS Classification		D2A, Materials Causing other toxic effects.			
		E, Corrosive Material			
Canada CPR	•	been classified in accordance with the hazard criteria of the Controlled ion of a Canada and this SDS contains all the required information.			

16. Other Information

List of GI	H315: Causes skin irritation					
Hazard	H318: Causes serious eye dama	H318: Causes serious eye damage				
Stateme	nts: H335: May cause respiratory in	H335: May cause respiratory irritation.				
	H350: May cause cancer throug	gh inhalat	ion			
List of GI	List of GHS P201: Obtain special instructions before use.					
Precautio	Precautionary P202: Do not handle until all safety precautions have been read and understood.					
Stateme	Statements: 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	RCRA	Resource Conservation and Recovery Act			
	Response, Compensation and Liability					
	Act					
SARA	Superfund Amendments and	IARC	International Agency for Research on Cancer			
	Reauthorization Act		с ,			
NTP	National Toxicology Program					

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