



SAFETY DATA SHEET

Section 1 Identification

Product Name: Cal-CM Plus Agricultural Grade Limestone

Recommended use: Soil Enhancer

Not Recommended: Use only as directed.

Manufacturer: Art Wilson Company
P.O. Box 20160
Carson City, NV 89721

Telephone: (775) 882-0700

Date of Preparation: December 12, 2014

Section 2. Hazard Identification

Classification:

Health Hazards	Physical Hazards
Carcinogen Category 1A	Not Hazardous
Specific Target Organ Toxicity Repeat Exposure Category 1	

Labeling:

Danger!



Health Phrases:

May cause cancer by inhalation.

Causes damage to lungs through prolonged or repeated inhalation exposure.

Precautionary Phrases:

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe dust.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use personal protective equipment as required.

IF exposed or concerned: Get medical attention.

Dispose of contents and container in accordance with local and national regulations.

Section 3. Composition / Information On Ingredients

Chemical name	CAS No.	Concentration
Limestone	1317-65-3	90-100
Crystalline Silica, Quartz	14808-60-7	1-5%

4. First-Aid Measures

Inhalation: If irritation develops, remove to fresh air. Get medical attention if irritation persists.

Skin contact: First aid is not normally required. Wash skin with soap and water. Get medical attention if irritation develops or persists. Remove contaminated clothing and launder before reuse.

Eye contact: Flush with plenty of water, holding the eyelids apart to ensure thorough washing. Get medical attention if irritation persists.

Ingestion: Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if large amount is swallowed.

Most important symptoms/effects, acute and delayed: Dust may cause mechanical eye and skin irritation. Inhalation of dust may cause respiratory irritation, coughing and difficulty in breathing. Prolonged overexposure to respirable crystalline silica may cause lung disease (silicosis) and increase the risk of lung cancer. Risk of cancer depends on duration and level of exposure

Indication of immediate medical attention and special treatment, if necessary: None required under normal conditions of use.

Section 5. Fire-Fighting Measures

Suitable (and unsuitable) extinguishing media: Use media appropriate for the surrounding fire.

Specific hazards arising from the chemical: Not flammable or combustible. Dry powders may accumulate static charge in handling which can be a source of ignition for flammable atmospheres.

Special protective equipment and precautions for fire-fighters: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing.

Section 6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures: Wear appropriate protective equipment. Avoid creating and breathing dust.

Environmental hazards: Report releases as required by local and federal authorities.

Methods and materials for containment and cleaning up: Collect using dustless method and place in appropriate container for use or disposal.

7. Handling and Storage

Precautions for safe handling: Avoid contact with eyes, skin and clothing. Do not breathe dust. Wear protective clothing and equipment as described in Section 8. Use with adequate ventilation and proper dust collection methods to keep exposure level below occupational exposure limits. Wash thoroughly with soap and water after use.

Dust can accumulate electrostatic charges due to friction from transfer and mixing operations and cause an electrical spark (ignition source) which can ignite flammable liquids and atmospheres. Provide adequate precautions when adding this product to flammable and combustible mixtures like paints and coating, such as electrical grounding and bonding, inert atmosphere or non-sparking tools. However, bonding and grounds may not eliminate the hazard for static accumulation.

Empty containers retain product residues. Follow all SDS precautions in handling empty containers.

Conditions for safe storage, including any incompatibilities: Store in a cool, dry, well-ventilated area. Protect from physical damage.

Section 8. Exposure Controls / Personal Protection

Exposure guidelines:

Limestone	5 mg/m ³ TWA OSHA PEL (respirable) 10 mg/m ³ TWA OSHA PEL (total dust)
Crystalline Silica	10 mg/m ³ TWA OSHA PEL (respirable fraction) % Silica + 2 30 mg/m ³ TWA OSHA PEL (total dust) % Silica + 2 0.025 mg/m ³ TWA ACGIH TLV (respirable fraction)

Appropriate engineering controls:

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

Individual protection measures, such as personal protective equipment:

Respiratory protection: If the exposure limits are exceeded a NIOSH approved particulate respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 or other applicable regulations and good industrial hygiene practice.

Skin protection: Abrasive resistant gloves are recommended if needed to avoid skin contact.

Eye protection: Chemical safety glasses with sideshields are recommended to avoid eye contact.

Other: None required.

Section 9. Physical and Chemical Properties

Appearance: White or tan powder

Odor: Odorless

Odor threshold: Not applicable	pH: Not applicable
Melting Point/Freezing Point: 2372°F /1300°C	Boiling point: Not applicable
Flash point: Not applicable	Evaporation rate: Not applicable
Flammability (solid, gas):	
Flammable limits: LEL: Not applicable	UEL: Not applicable
Vapor pressure: Not applicable	Vapor density: Not applicable
Relative density: 87-107 lb./ft ³	Solubility in Water: 0.0006%
Partition coefficient: n-ctanol/water: Not applicable	Auto-ignition temperature: Not applicable
Decomposition Temperature: Not available	Viscosity: Not applicable

Section 10. Stability and Reactivity

Reactivity: Reacts with acids.

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: Reacts with acids to form carbon dioxide and heat. .

Conditions to avoid: None known.

Incompatible materials: Avoid acids, alum, ammonium salts, mercury and heat, fluorine and magnesium.

Hazardous decomposition products: Thermal decomposition may produce oxides of carbon and calcium.

Section 11. Toxicological Information

Likely routes of exposure:

Inhalation: Inhalation of dust may cause irritation to the nose, throat and upper respiratory tract with coughing and shortness of breath.

Ingestion: Not expected to cause adverse effects.

Skin contact: Prolonged skin contact may cause mechanical irritation and abrasions.

Eye contact: Dust may cause irritation or redness with inflammation of the cornea.

Chronic effects: Chronic inhalation of respirable crystalline silica dust may cause a progressive, disabling and sometimes fatal lung disease called silicosis. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness and reduced pulmonary function.

Germ Cell Mutagenicity: This product is not expected to cause germ cell mutagenicity.

Developmental / Reproductive Toxicity: This product is not expected to cause adverse effects on reproduction or development.

Carcinogenicity: Crystalline silica quartz is listed as "Carcinogenic to Humans" (Group 1) by IARC and "Known to be a Human Carcinogen" by NTP. None of the other components are listed as a carcinogen by IARC, NTP or OSHA.

Acute Toxicity Values:

Limestone: Oral rat LD50 6540 mg/kg

Crystalline Silica, Quartz: Oral rat LD50 >22,500 mg/kg

Section 12. Ecological Information

Ecotoxicity:

Limestone: No data available

Crystalline Silica, Quartz: No data available

Persistence and degradability: Biodegradation is not applicable for inorganic substances.

Bioaccumulative potential: This product is not expected to bioaccumulate.

Mobility in soil: No data available

Other adverse effects: None known.

Section 13. Disposal Considerations

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

Section 14. Transport Information

	UN Number	Proper shipping name	Hazard Class	Packing Group	Environmental Hazard
DOT		Not Regulated			
TDG		Not Regulated			
IMDG		Not Regulated			
IATA		Not Regulated			
		Not Regulated			

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Not applicable – product is transported only in packaged form.

Special precautions: None known.

Section 15. Regulatory Information

Safety, health, and environmental regulations specific for the product in question.

CERCLA Section 103: This product is not subject to CERCLA spill reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

SARA Hazard Category (311/312): Chronic Health

EPA SARA 313: This Product Contains the Following Chemicals Subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): None

US TSCA: All of the components of this material are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory or are exempt.

California Proposition 65: This product contain the following chemicals known to the State of California to cause cancer or reproductive toxicity:

Crystalline Silica, quartz	14808-60-7	1-5%	Cancer
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CANADA:

Canadian CEPA: All of the components are listed on the Canadian DSL or are exempt.

Canadian WHMIS: Class D, Division 2A

This product has been classified in accordance with the hazard criteria in the CPR and the MSDS contains all the information required by the CPR.

Section 16. Other Information

NFPA Rating: Health = 1 Flammability = 0 Instability = 0

HMIS Rating: Health = 1* Flammability = 0 Physical Hazard = 0

SDS Revision History: All Section revised - Update to GHS format

Date of preparation: December 12, 2014

Date of last revision: None