

SAFETY DATA SHEET

Section 1 Identification

Product Name: Cal-CM+ Plus Mini Prilled Calcium Sulfate

Recommended use: Soil Enhancer

Not Recommended: Use only as directed.

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

Telephone: (775) 882-0700

Date of Preparation: December 12, 2014

Section 2. Hazard Identification

Classification: Not classified as hazardous

Labeling:

None required

Section 3. Composition / Information On Ingredients

Chemical name	CAS No.	Concentration
Calcium Sulfate	7778-18-9	90-100
Ammonium Lignosulfonate	8061-53-8	1-5%
Crystalline Silica Quartz	14808-60-7	<0.25%

* The crystalline silica in this product is inextricably bound in a manner that no exposure occurs during normal use and handling. Therefore this product is not classified as a carcinogen.

The specific identity and/or exact concentration has been withheld as a trade secret.

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.

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

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 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. Wash thoroughly with soap and water after use.

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:

Calcium Sulfate	5 mg/m3 TWA OSHA PEL (respirable) 10 mg/m3 TWA OSHA PEL (total dust) 10 mg/m3 TWA ACGIH TLV (inhalable fraction)
Ammonium Lignosulfonate	None Established
Crystalline Silica	10 mg/m3 TWA OSHA PEL (respirable fraction) % Silica + 2 30 mg/m3 TWA OSHA PEL (total dust) % Silica + 2 0.025 mg/m3 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 pellets

Odor: Odorless

Odor threshold: Not applicable	pH: Not applicable
Melting Point/Freezing Point: 2642°F /1450°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: 2.5	Solubility in Water: Slightly (2.5%)
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 water.

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: Reacts with water to form gypsum and plaster of paris.

Conditions to avoid: None known.

Incompatible materials: Avoid water, diazomethanem aluminum and phosphorus.

Hazardous decomposition products: Thermal decomposition may produce oxides of sulfur 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 mechanical irritation, tearing and pain.

Chronic effects: None known.

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. The crystalline silica in this product is inextricably bound in a manner that no exposure occurs during normal use and handling. Therefore this product is not classified as a carcinogen. None of the other components are listed as a carcinogen by IARC, NTP or OSHA.

Acute Toxicity Values:

Calcium Sulfate: Oral rat LD50 >2000 mg/kg, Inhalation rat LC50 >3.26 mg/L/4 hr

Ammonium Lignosulfonate: No toxicity data available

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

Section 12. Ecological Information

Ecotoxicity:

Calcium Sulfate: No data available

Ammonium Lignosulfonate: 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

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	<0.25%	Cancer
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* The crystalline silica in this product is inextricably bound in a manner that no exposure occurs during normal use and handling. Therefore no warning is required. .

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