SAFETY DATA SHEET

Section 1 Identification

Product Name: Standard and Mini Prilled Sucra-Min Zinc Sucrate 36% Zn

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: April 11, 2017

Section 2. Hazard Identification

Classification: Not classified as hazardous

Labeling: Not Required

Section 3. Composition / Information On Ingredients

Chemical name	CAS No.	Concentration
Zinc Oxide	1314-13-2	40-60%
Calcium Sulfate	7778-18-9	40-60%

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 persist.
Skin contact: No first aid should be needed. Wash with soap and water. Get medical attention if irritation develops.
Eye contact: Flush with plenty of water, holding the eyelids apart to ensure through washing. Get medical attention if irritation persists.
Ingestion: No first aid should be required. 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: Poses little or no health hazard. May cause mild, abrasive irritation to the eyes, skin and respiratory tract.

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. Cool fire exposed container with water.

Specific hazards arising from the chemical: This material is not combustible and presents no fire hazard.

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: Avoid unintentional release to the environment.

Methods and materials for containment and cleaning up: Sweep or vacuum spilled material and place into a container for reuse or disposal.

7. Handling and Storage

Precautions for safe handling: Avoid contact with the eyes. Avoid creating and breathing dust.

Conditions for safe storage, including any incompatibilities: Keep containers closed when not in use.

Section 8. Exposure Controls / Personal Protection

Exposure guidelines:

Zinc Oxide	5 mg/m^3 TWA (respirable fraction), 15 mg/m^3 TWA (total dust) OSHA PEL 2 mg/m^3 TWA, 10 mg/m3 STEL (respirable) ACGIH TLV
Calcium Sulfate	5 mg/m^3 TWA (respirable fraction), 15 mg/m^3 TWA (total dust) OSHA PEL 10 mg/m^3 TWA (inhalable) ACGIH TLV

Appropriate engineering controls:
Engineering Controls: Good outdoor ventilation should be adequate under normal conditions.

Individual protection measures, such as personal protective equipment:
Respiratory protection: In operations where the occupational exposure limits are exceeded, a NIOSH approved respirator with dust/mist cartridges or supplied air respirator should be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.
Eye protection: Follow facility requirements. Dust goggles recommended for dusty conditions.
Skin protection: Abrasive resistant gloves are recommended to prevent skin abrasions.
Other: None required.

Section 9. Physical and Chemical Properties

Appearance: Black pellets
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): Not flammable	
Flammable limits: LEL: Not applicable	**UEL:** Not applicable
Vapor pressure: Not applicable	**Vapor density:** Not applicable
Relative density: 2.5	**Solubility in Water:** Slight
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: None known.
Chemical stability: Stable under normal conditions.
Possibility of hazardous reactions: None known. .
Conditions to avoid: None known.
Incompatible materials: Avoid water, diazomethanem aluminum and phosphorus.
Hazardous decomposition products: Thermal decomposition may produce oxides of sulfur, oxides of zinc and calcium.

Section 11. Toxicological Information

Likely routes of exposure:
Inhalation: Inhalation of dust may cause mild irritation of mucous membranes and upper respiratory tract.
Ingestion: Swallowing large amounts may cause gastric upset and nausea.
Skin contact: No adverse effects are expected. May cause mechanical irritation.
Eye contact: Dust may cause mechanical irritation with redness and tearing.

Chronic effects: No adverse effects expected.

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: None of the components are listed as a carcinogen by OSHA, NTP or IARC.

Acute Toxicity Values:
Zinc Oxide: Oral rat LD50 >5000 mg/kg, Inhalation rat LC50 >5.7mg/L/4 hr TWA (no mortality), Dermal rat LD50 >2000 mg/kg
Calcium Sulfate: Oral rat LD50 >2000 mg/kg, Inhalation rat LC50 >3.26 mg/L (no mortality)

Section 12. Ecological Information

Ecotoxicity:
Zinc Oxide: 96 hr LC50 Oncorhynchus mykiss 169 ug/L, 48 hr LC50 Daphnia magna 860 ug/L, 72 hr IC50 Pseudokirchneriella subcapitata 150 ug/L
Calcium Sulfate: 96 hr LC50 Oryzias latipes >79 mg/L, 48 hr LC50 daphnia magna >79 mg/L, 72 hr EC50 Pseudokirchneriella subcapitata >79 mg/L

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	UN3077	Environmentally Hazardous Substance, n.o.s. (zinc oxide)	9	III	Marine Pollutant
IATA	UN3077	Environmentally Hazardous Substance, n.o.s. (zinc oxide)	9	III	Yes

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: The normal application of fertilizers is exempt from CERCLA reporting.

SARA Hazard Category (311/312): Not Hazardous
EPA SARA 313: Products used in routine agricultural operations and fertilizers held for resale by retailers is excluded from SARA 313 reporting.
US TSCA: All of the components of this material are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory or are exempt.

Section 16. Other Information

NFPA Rating: Health = 0 Flammability = 0 Instability = 0
HMIS Rating: Health = 0 Flammability = 0 Physical Hazard = 0

SDS Revision History: All Sections revised - Update to GHS format
Date of preparation: April 11, 2016
Date of last revision: New SDS