

SuperCal SO4



Granulated Gypsum

- Improves Soil Structure
- Helps Reclaim Sodic Soils
- Prevents Crusting of Soil and Aids in Seed Emergence
- Improves Compacted Soil
- Makes Slightly Wet Soils Easier To Till
- Stops Water Runoff and Erosion
- Decreased pH of Sodic soils
- Improves Swelling Clays
- Prevents Waterlogging of Soil
- Helps Make Stable Soil Organic Matter
- Makes Water-Soluble Polymer Soil Conditions More Effective
- Makes Magnesium Non-Toxic
- Corrects Subsoil Acidity
- Improves Water-Use Efficiency
- Decreases Dust Erosion
- Makes it Possible to use Low Quality Irrigation Water
- Has 17% Sulfate
- Helps Plants Absorb Plant Nutrients
- Decreases Heavy-Metal Toxicity
- Increases Value of Organics
- Improves Fruit Quality & Prevents Some Plant Diseases
- Helps Prepare Soil for No-Till Management
- Decreases Bulk Density of Soil
- Decreases the Toxic Effect of NaCl Salinity
- Decreases Loss of Fertilizer Nitrogen to the Air
- Keeps Clay Off Tuber & Root Crops
- Helps Earthworms to Flourish
- Safe for Organic Growers

Available in a 40lb Bag



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SuperCal SO4



Granulated Gypsum

TYPICAL SIEVE ANALYSIS PRIOR TO GRNULATION

99% passing 50 mesh
85% passing 100 mesh
73% passing 200 mesh

CHEMICAL ANALYSIS

Calcium	23%
Sulfur	>17%
Calcium Sulfate Dihydrate	94%
Moisture	>1%
Binder (lignosulfates)	2%

Section 1: Product Information

Product Name:	SuperCal SO4
EPA Reg. Number:	Unknown
Chemical Name:	Calcium Sulfate Dihydrate
Shipping Information:	Not regulated by U.S. DOT for all modes of transportation within the U.S.

Section 2: Composition/Information on Ingredients

<u>Chemical Name</u>	<u>CAS Registry #</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>SARA 313 Reportable</u>
Gypsum	10101-41-4	None	None	No
Crystalline Silica (Quartz)*	14808-60-7	0.1 mg/m ³	0.1 mg/m ³	No

* May be present as a naturally occurring mineral in the fertilizer ingredients used in this formulation. The respirable portion of crystalline silica in this product is very small, and excessive inhalation is unlikely under normal conditions of use.

Section 3: Physical and Chemical Properties

Physical Form:	Granular Solid	Bulk Density:	Not Established
pH:	Not applicable	Refractive Index:	Not applicable
Boiling Point:	Not applicable	Freezing Point:	Not applicable
Solubility in Water:	Zero	Viscosity:	Free-flowing granules
Vapor Pressure:	Not Applicable	Vapor Density:	Not Applicable
Percent Volatile:	Zero	Evaporation Rate:	Zero
Appearance and Odor:	Multicolored granules with a characteristic insecticide odor.		

Section 4: Fire and Explosion Hazard Data

Flash Point (F):	Not Flammable	Flash Point Method:	Not applicable
Auto Ignition Temp. (F):	Not Flammable	Burning Rate:	Not applicable
Explosive Limits:	Upper (UEL): Not App.	Lower Limit (LEL):	Not applicable
Extinguishing Media:	Not required		
Special Firefighting Procedures:	Fire fighters should wear full protective gear and self-contained breathing apparatus. Contain runoff to prevent pollution. Fumes and smoke from fire may be hazardous.		
Unusual Fire or Explosion Hazards:	None.		

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Section 5: Health Hazard Data

Primary Routes of Entry: Inhalation, ingestion, skin or eye contact.

Signs and Symptoms of Over-Exposure:

Eye Contact:	Acute:	Mild, reversible irritation to the conjunctiva of the eye.	Chronic:	None reported
Skin Contact:	Acute:	May cause mechanical irritation.	Chronic:	None reported
Inhalation:	Acute:	Excessive inhalation of fertilizer dust may irritate nose, throat and upper respiratory tract.	Chronic:	Excessive inhalation of crystalline silica (quartz) may cause lung injury.
Ingestion:	Acute:	No specific symptoms of over-exposure to the herbicide active ingredient are known to occur. Ingestion of fertilizer components may cause gastrointestinal distress, nausea and vomiting	Chronic:	None reported.

Emergency First Aid Procedures:

Eye Contact:	Hold eyelids open and flush with lots of water for 15 minutes. If irritation persists after flushing, get medical attention.
Skin Contact:	Remove contaminated clothing and wash skin with soap and water. If irritation develops after washing, get medical attention.
Inhalation:	Remove person to fresh air. If breathing stops, give CPR and get medical attention.
Ingestion:	Call a physician or poison control center. Give person 1-2 glasses of water to drink and induce vomiting by touching back of throat with finger. If Syrup of Ipecac is available, give 1 tablespoon followed by 1-2 glasses of water. If vomiting does not occur within 20 minutes, repeat dosage once. Never induce vomiting or give anything by mouth to an unconscious or convulsing person. Note to physician: No specific antidote is available. Treat symptomatically.
Medical conditions aggravated by exposure:	Existing skin irritation, cuts or scrapes may be aggravated by contact.
Target Organs:	Skin, lungs
Carcinogens:	Crystalline silica (quartz) component is classified as a carcinogen by NTP and IARC.

Section 6: Reactivity Data

Stability:	Stable
Chemical incompatibilities:	Strong oxidizers
Conditions to avoid:	None
Hazardous Decomposition Products:	Thermal decomposition (burning) may produce CO, CO ₂ , Nox, HCl, HCN
Hazardous Polymerization:	Will not occur

This information is believed to be accurate at the time of publication (April 4, 2002). No warranty, guarantee or representation, expressed or implied, is made with regard to this information. Because this information may not be adequate for every application, the user must determine the suitability of the information, and may need additional information due to the manner/conditions of use, storage, state or local regulations.

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Section 7: Accidental Release Procedures

Large Spill or Leak Procedures:	Isolate and contain spill. Remove unauthorized persons from spill area. Do not walk through spilled material. Wear suitable protective gear. Carefully sweep or scoop spilled material and place in a closed, labeled container for use or disposal. Scrub contaminated surfaces with detergent and water, and collect wash water solution for proper disposal according to label directions. Do not allow spilled material to enter streams, sewers or other waters.
Small Spill or Leak Procedures:	Wear protective clothing as recommended on label. Sweep up spilled material for use according to label directions.
Waste Disposal Methods:	Consult state or local environmental agency for disposal of waste generated by a spill. Wastes from the use of this product according to label directions may be disposed as specified on product label.

Section 8: Exposure Controls and Personal Protection

Engineering Controls—Ventilation:	This product is designed for outdoor use only and ventilation is not normally required. Local exhaust may be necessary when handling this product in an enclosed area.
Administrative Controls:	Follow all precautions and directions for use on product label.
Protective Clothing & Equipment:	Wash thoroughly after handling and before eating, drinking, smoking or using the toilet.
Respiratory Protection:	For normal handling and use, a respirator is not required. For excessively dusty conditions, use a dust mask approved by MSHA/NIOSH. See OSHA regulations in 29 CFR 1910.134 before using any respirator or dust mask.
Eye Protection:	Good safety practices suggest the use of goggles to prevent contact with eyes.
Hand Protection:	Good safety practices suggest the use of chemical-resistant (natural rubber) gloves to prevent skin contact.
Skin Protection:	Wear long-sleeved shirt and long trousers to reduce skin contact.
Contaminated Equipment:	Laundry contaminated clothing separately from street clothes. Clean contaminated boots/shoes and other equipment with detergent and water immediately after use.
Safety Stations:	Clean water should be available to flush eyes and/or skin in case of accidental contact.

Section 9: Handling and Storage Precautions

Handling Precautions:	Wear suitable protective gear when handling open containers. Do not take internally. Avoid contact with eyes, skin or clothing. Wash thoroughly after handling.
Storage Requirements:	Store in a locked, dry area, away from feed or food, and out of reach of children, pets and domestic animals. Keep containers tightly closed when not in use. Store in original container only. Do not remove or destroy product label. Dispose of empty containers as specified on product label.