



Material Safety Data Sheet

Section 1: PRODUCT AND COMPANY INFORMATION

Product Name(s): GEO SuperGrout

Manufacturers Name: SuperGrout Products, LLC
PO Box 3484
Saginaw, MI 48605

Telephone Numbers: (888) 299-3860

Product Use: Thermal Conductive Grout used in geothermal or other bore holes. GEO SuperGrout is a “single” bagged material when water is added, can be directly poured, placed or pumped into geothermal or other bore holes.

Section 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component	Percent (By Weight)	CAS Number	OSHA PEL-TWA (mg/m ³)	ACGIH TLV TWA (mg/m ³)	LD ₅₀ (Mouse, intraperitoneal)
Portland Cement	Proprietary	65997-15-1	15 (T): 5 (R)	10 (R)	NA
Calcium Carbonate	5-50	1317-65-3	15 (T): 5 (R)	10 (T)	NA
Calcium Oxide	0-30	1305-78-8	5 (T)	2 (T)	3059 mg/kg
Calcium Sulfate	1-10	13397-24-5	15 (T): 5 (R)	10 (T)	NA
Silica Fume (Amorphous Silica)	0-10	69012-64-2	NA	2 (R)	NA
Magnesium Oxide	0-10	1309-48-4	15 (T)	10 (T)	NA
Crystalline Silica	0-10	14808-60-7	[(10)/(SiO ₂ +2)] (R) [(30)/(SiO ₂ +2)] (T)	0.05 (R)	NA

Section 3: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid (Powder).	Evaporation Rate:	NA.
Appearance:	Grayish to Tan Powder	pH (in water):	12-13
Odor:	None	Boiling Point:	>1000°C
Vapor Pressure:	NA.	Freezing Point:	None, Solid.
Vapor Density:	NA.	Viscosity:	None, Solid.
Specific Gravity:	2.2 – 2.5	Solubility in Water:	Slightly (0.1-1.0%)

Section 4: HAZARD IDENTIFICATION

Geo SuperGrout contains a small fraction of Portland cement and/or Portland cement derivatives which are fully disclosed in the following Hazard Identification. These factors are clearly defined beginning with the word “Cement” in the following disclosures. These disclosures are common in ordinary Portland cement and Portland cement mixtures. The remaining balance of ingredients are inert and pose no hazard requirements other than silica exposures, which are fully disclosed under the cement disclosures.



MSDS: GEO SuperGrout

Emergency Overview: Cement is a solid, grey, odorless powder. It is not combustible or explosive. A single, short term exposure to the dry powder presents little or no hazard. Exposure of sufficient duration to wet cement, or to dry cement on moist areas of the body, can cause serious, potentially irreversible tissue (skin, eye, respiratory tract) damage due to chemical (caustic) burns, including third degree burns.

Potential Health Effects:

Eye Contact: Airborne dust may cause immediate or delayed irritation or inflammation. Eye contact with large amounts of dry powder or wet cement can cause moderate eye irritation, chemical burns and blindness. Eye exposures require immediate first aid and medical attention to prevent significant damage to the eye.

Skin Contact: Cement may cause dry skin, discomfort, irritation, severe burns, and dermatitis.

SECTION 5: FIRST AID

Inhalation: Remove to fresh air immediately. If breathing difficulty occurs, seek medical attention and administer oxygen if coughing and other medical symptoms persist.

Skin: Wash skin with soapy water and rinse with clean cool water immediately. Apply moisturizing lotion to dry and irritated skin areas. Seek medical attention in cases of severe irritation and burns.

Eyes: Immediately flush eyes with large quantities of water, flushing for 15 minutes include under the lids to remove grainy particles. Call a physician immediately.

Ingestion: Do NOT induce vomiting. If conscious, have victim drink plenty of water and call a physician immediately.

SECTION 6: HMIS HAZARD RATINGS

	Product Rating		Scale
HEALTH:	=1	Insignificant	= 0
FLAMMABILITY:	=0	Slight	= 1
PHYSICAL HAZARD:	=0	Moderate	= 2
REACTIVITY:	=0	High	= 3
		Extreme	= 4
PERSONAL PROTECTIVE EQUIPMENT = E		Chronic Health Hazard = *	

(E = SAFETY EYEWEAR, GLOVES, DUST RESPIRATOR)



SECTION 7: FIRE FIGHTING MEASURES

FLASH POINT: N/A

AUTO IGNITION TEMPERATURE: N/A

FLAMMABLE LIMITS: LEL: N/A
UEL: N/A

EXTINGUISHING MEDIA: Product is non-combustible. Carbon dioxide, water, dry-chemical, or chemical foam may be used should smoldering occur.

FIRE FIGHTING PROCEDURES: No special procedures required.

UNUSUAL FIRE AND EXPLOSION HAZARDS: No unusual hazards.

HAZARDOUS COMBUSTION PRODUCTS: None.

SECTION 8: ACCIDENTAL RELEASE PROCEDURES

IN CASE OF ACCIDENTAL RELEASE OR SPILL: This material is not considered hazardous under RCRA (40 CFR Part 261), do not discharge spills or waste into lakes, ponds streams or waterways. Avoid creating dust and use adequate dust collection and ventilation.

SECTION 9: HANDLING AND STORAGE

SPECIAL HANDLING AND STORAGE PROCEDURES: Repair or properly dispose of broken bags. Store bags in a dry place. Moisture will cause the cementitious fraction to react. Avoid creating dust by sweeping release area and disposing of the residue properly.

SECTION 10: EXPOSURE CONTROLS AND PERSONAL PROTECTION

PERSONAL PROTECTION

RESPIRATORY PROTECTION: Use dust masks that are certified to comply with standard 42 CFR Part 84, series N95. Use of dust masks during blending is recommended.

PROTECTIVE GLOVES: Wear impervious, alkali resistant gloves, boots and protective clothing to prevent contact with skin. If contact occurs, wash with soapy water, and rinse with clean clear water. Moisturizing lotion can be added to dry affected areas as necessary.

EYE PROTECTION: Wear tight fitting goggles to prevent contact with eyes. Contact lenses should not be worn when handling any products that contain cementitious materials.



OTHER REQUIRED EQUIPMENT: None.

ENGINEERING CONTROLS: Use local exhaust to reduce dust concentrations to levels below the OSHA PEL or the ACGIH TLV. Refer to ACGIH publication "Industrial Ventilation" for design of ventilation systems. It is acceptable to utilize similar publications for design according to the above parameters.

SECTION 11: DISPOSAL PROCEDURES

WASTE DISPOSAL: Product is NOT considered a hazardous waste under RCRA 40 CFR Part 261. Dispose of any wastes according to local, state and federal agency regulations.

SECTION 12: TRANSPORTATION INFORMATION

Product is not considered to be hazardous under the US Department of Transportation (USDOT) Regulations.

SECTION 13: REGULATORY STANDARDS AND INFORMATION

SARA Title III Sections 311 and 312

Portland cement, certain Portland cement derivatives and crystalline silica qualify as hazardous substances with delayed health effects.

CERCLA/Superfund 40 CFR 117 and 302

Not listed.

SARA Title III Section 303

Not subject to reporting requirements under Section 313.

TSCA Inventory

Most components of this product are listed in the TSCA Inventory.

OSHA Hazard Communication Standard

Most of the components of this product are considered hazardous chemicals under this regulation and should be included in an employer's Hazard Communication Program.

Federal Hazardous Substances Act

Portland cement is a hazardous substance subject to statutes promulgated under the subject act.

The information provided herein by SuperGrout Products is believed to be accurate at the time of preparation or prepared from sources believed to be reliable. Users have the responsibility to comply with all health and safety laws, as well as environmental regulations when using this product, and should determine the suitability of the product for its intended use. Seller makes no warranty, express or implied, concerning the product or the merchantability or fitness thereof for any purpose or concerning the accuracy of information provided by SuperGrout Products.