

# SAFETY DATA SHEET

## SECTION 1: IDENTIFICATION

Product Name: GEOSPIN GEOPOLYMER CEMENT Product Code: GEOSPIN

**TRADE NAME:** Mainstay GeoSpin

**MANUFACTURER:**

Madewell Products Corporation  
7561 Industrial Court  
Alpharetta GA 30004  
Phone: (770) 475-8199  
Emergency: PERS 1-800-633-8253

## SECTION 2: HAZARD(S) IDENTIFICATION

**GHS Ratings:**

Skin corrosive	2	Reversible adverse effects in dermal tissue, Draize score: $\geq 2.3 < 4.0$ or persistent inflammation
Eye corrosive	1	Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity $\geq 3$ , Iritis $> 1.5$
Carcinogen	1A	Known Human Carcinogen Based on human evidence

**GHS Hazards**

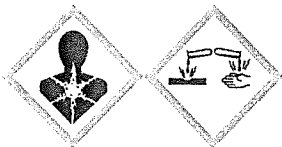
H315	Causes skin irritation
H318	Causes serious eye damage
H350	May cause cancer

**GHS Precautions**

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P264	Wash hands thoroughly after handling
P280	Wear protective gloves/protective clothing/eye protection/face protection
P281	Use personal protective equipment as required
P310	Immediately call a POISON CENTER or doctor/physician
P321	Specific treatment (see instructions on this label)
P362	Take off contaminated clothing and wash before reuse
P302+P352	IF ON SKIN: Wash with soap and water
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P308+P313	IF exposed or concerned: Get medical advice/attention
P332+P313	If skin irritation occurs: Get medical advice/attention
P405	Store locked up
P501	Dispose of contents/container to ...

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**Signal Word: Danger**



### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS number	Weight Concentration %
QUARTZ	14808-60-7	55.00%
CALCIUM ALUMINATE	12042-68-1	32.00%
NATURAL ALUMINOSILICATE (KOALIN)	1332-58-7	6.00%
FLY ASH COMBUSTION RESIDUE	68131-74-8	5.00%
SILICON DIOXIDE	69012-64-2	2.00%

### SECTION 4: First Aid Measures

First-aid measures after inhalation:

If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

First-aid measures after eye contact:

Immediately rinse with water for a prolonged period while holding the eyelids wide open. Seek medical attention if material is embedded in eye. If eye irritation persists, get medical advice and attention.

First-aid measures after skin contact:

Rinse immediately with plenty of water. Gently wash with plenty of soap and water. Obtain medical attention if irritation persists.

First-aid measures after ingestion:

If swallowed, wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel.

**Most important symptoms and effects both acute and delayed:**

Symptoms/injuries after inhalation:

May cause irritation to the respiratory tract, sneezing, coughing, burning sensation of throat with constricting sensation of the larynx and difficulty in breathing.

Symptoms/injuries after skin contact:

Prolonged contact with large amounts of dust may cause mechanical irritation. Dust may cause irritation in skin folds or by contact in combination with tight clothing.

Symptoms/injuries after eye contact:

Redness, pain.

Symptoms/injuries after ingestion:

Abdominal pain.

Chronic symptoms:

Respiratory difficulties. May cause cancer.

### SECTION 5: Fire-Fighting Measures

Flash Point: N/A

LEL: N/A

UEL: N/A

**Extinguishing media:** Use extinguishing media appropriate for surrounding fire.

**Special hazards arising from the substance or mixture:**

Not Flammable

No particular fire or explosion hazard.

No specific data.

**Advice for firefighters:**

Fight the fire with normal precautions from a reasonable distance.

Use normal individual fire protective equipment.

### SECTION 6: Accidental Release Measures

#### Personal precautions, protective equipment and emergency procedures:

Do not breathe dust. Avoid generation of dust during clean-up of spills. Recover the product by vacuuming, shovelling or sweeping. Vacuum must be fitted with HEPA filter to prevent release of particulates during clean-up. Wear suitable protective clothing, gloves and eye/face protection. Use recommended respiratory protection.

**Environmental precautions:** Prevent entry to sewers and public waters.

### SECTION 7: Handling and Storage

#### Precautions for safe handling:

Do not breathe dust. Avoid creating or spreading dust.

#### Conditions for safe storage, including any incompatibilities:

Store tightly closed in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep bulk and bagged product dry until used. Stack bagged material in a secure manner to prevent falling. Bagged material is heavy and poses risks such as sprains and strains to the back, arms, shoulders, and legs during lifting and mixing. Handle with care and use appropriate control measures.

### SECTION 8: Exposure Controls/Personal Protection

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
QUARTZ 14808-60-7	.1MG/M3	.025MG/M3 RESPIRABLE FRACTION	Not Established
CALCIUM ALUMINATE 12042-68-1	Not Established	Not Established	Not Established
NATURAL ALUMINOSILICATE (KOALIN) 1332-58-7	Not Established	Not Established	Not Established
FLY ASH COMBUSTION RESIDUE 68131-74-8	Not Established	Not Established	Not Established
SILICON DIOXIDE 69012-64-2	Not Established	Not Established	Not Established

**Exposure controls:** Ensure adequate ventilation, especially in confined areas. Avoid dust production.

#### Personal protective equipment:

Protective goggles. In insufficient ventilation, wear respiratory protection or self-contained breathing apparatus.

Hand protection: Impermeable protective gloves.

Eye protection: Protective goggles.

Skin and body protection: Handle in accordance with good industrial hygiene and safety practices. Wash your hands immediately after handling this product, and again before leaving the workplace. Wear suitable protective clothing and wash contaminated clothing before reuse.

Respiratory protection: Use NIOSH-approved air-purifying or supplied-air respirator where airborne concentration of dust are expected to exceed exposure limits.

## SECTION 9: Physical and Chemical Properties

PHYSICAL STATE: SOLID  
APPEARANCE: CRYSTALLINE POWDER  
COLOR: NATURAL  
ODOUR: ODOURLESS  
ODOUR THRESHOLD: NO DATA AVAILABLE  
pH: <11.5  
RELATIVE EVAPORATION RATE: NO DATA AVAILABLE  
MELTING POINT: 1440C  
FREEZING POINT: NO DATA AVAILABLE  
BOILING POINT: NO DATA AVAILABLE  
FLASH POINT: NO DATA AVAILABLE  
SELF IGNITION TEMPERATURE: NO DATA AVAILABLE  
DECOMPOSITION TEMPERATURE: NO DATA AVAILABLE  
FLAMMABILITY (SOLID,GAS): NO DATA AVAILABLE  
VAPOUR PRESSURE: NO DATA AVAILABLE  
RELATIVE VAPOUR DENSITY AT 20C: NO DATA AVAILABLE  
RELATIVE DENSITY: NO DATA AVAILABLE  
DENSITY: 2.65-3.0 (APPROXIMATE)  
SOLUBILITY: WATER/INSOLUBLE  
LOG POW: NO DATA AVAILABLE  
LOG KOW: NO DATA AVAILABLE  
VISCOSITY: NO DATA AVAILABLE  
EXPLOSIVE PROPERTIES: NONE KNOWN  
OXIDISING PROPERTIES: NONE KNOWN  
EXPLOSIVE LIMITS: NO DATA AVAILABLE

Boiling Point 2230 °C

## SECTION 10: Stability and Reactivity

Reactivity: Hazardous reactions will not occur under normal conditions.

STABLE

Chemical stability: Stable under normal temperature and pressure.

Incompatible materials: Avoid strong oxidizers.

Possibility of hazardous reactions: Hazardous polymerization will not occur.

Conditions to avoid: None known.

Hazardous decomposition products: Quartz (silica) will dissolve in hydroflouric acid producing a corrosive gas, silicon tetrafluoride.

Hazardous polymerization will not occur.

## SECTION 11: Toxicological Information

Mixture Toxicity

Component Toxicity

### Effects of Overexposure

### Information on toxicological effects

Acute Oral Toxicity: Not classified

**Acute Dermal Toxicity:** May cause skin irritation  
**Acute Inhalation Toxicity:** Not classified  
**Serious Eye Damage/Irritation:** May cause serious eye damage  
**Carcinogenicity:** May cause cancer (inhalation)  
**Reproductive Toxicity:** Not classified  
**Specific Target Organ Toxicity - single exposure:** May cause respiratory irritation  
**Specific Target Organ Toxicity - repeated exposure:** Causes damage to organs (lung/respiratory system) through prolonged or repeated exposure (inhalation)  
**Aspiration Hazard:** Not classified.

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
14808-60-7	QUARTZ	55%	QUARTZ:

### SECTION 12: Ecological Information

#### Toxicity

**Persistence and degradability:** Not readily biodegradable  
**Bioaccumulative potential:** Not expected to bioaccumulate  
**Mobility in soil:** Not available  
**Other adverse effects:** No additional information available

#### Component Ecotoxicity

### SECTION 13: Disposal Considerations

**Waste treatment methods:** Nonhazardous waste. Dispose of according to official regulations.

### SECTION 14: Transport Information

Not regulated.

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
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### SECTION 15: Regulatory Information

#### Safety, health and environmental regulations/legislation specific for the substance or mixture

**SARA Title III Section 311/312 (40CFR370):** Immediate (acute ) health hazard, Delayed (chronic) health hazard

**SARA Title III Section 313 (40CFR372):** This product may contain constituents listed under SARA (Title III) Section 313, but not in amounts requiring supplier notification under 40 CFR Part 372 Subpart C

**CERCLA Status (40CFR302):**

**RCRA Status (40CFR261):**

**OSHA/NTP/IARC Carcinogen Status:** Prop 65 California contains chemicals known to the State of California to cause cancer

**TSCA Inventory Status:** Listed

**Canadian DSL Status:** Domestic substances list

**Canadian WHMIS Status:** Class D Division 2 Subdivision A. Toxic material causing other toxic effects

<u>Country</u>	<u>Regulation</u>	<u>All Components Listed</u>
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**EU Risk Phrases**

**Safety Phrase**

**SECTION 16: Other Information**

HMIS ratings:  
Health: 2\*Moderate hazard  
Flammability:0  
Physical: 0  
Personal Protection: E

**Hazardous Material Information System (HMIS)**

HEALTH	<input type="text" value="0"/>	HMIS & NFPA Hazard Rating Legend * = Chronic Health Hazard 0 = INSIGNIFICANT 1 = SLIGHT 2 = MODERATE 3 = HIGH
FLAMMABILITY	<input type="text" value="0"/>	
PHYSICAL HAZARD	<input type="text" value="0"/>	
PERSONAL PROTECTION	<input type="text"/>	

**Madewell Products Corporation Disclaimer**

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Reviewer Revision

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