

Section 1. Product and Company Identification

Product Name: GeoFuse™ Powder Part A
Supplier: GeoTree Solutions | 1733 Majestic Rd, Suite 101, Lafayette, CO 80026 | +1 855.655.6750
Emergency Phone Number: 800.424.9300 (CHEMTREC)
+1 703.741.5970 (Outside the US)
Product Description: Cementous products used in the production and blending for geopolymer mortars.
Product Use: Repairs
Chemical Name or Synonym: N/A

Section 2. Hazards Identification**Classification of the substance or mixture**

Skin Corrosion/irritation – Category 1
Sensitization/skin – Category 1
Eye damage/irritation – Category 1
Specific target organ toxicity (single exposure) – Category 3
Specific target organ toxicity (repeated exposure) – Category 1
Carcinogenicity – Category 1 A

Label Elements:**Hazard Statements:**

H315 – Causes skin irritation
H317 – May cause an allergic skin reaction
H318 – Causes serious eye damage
H335 – May cause respiratory irritation (Inhalation)
H372 – Causes damage to organs (lung) through prolonged or repeated exposure (inhalation)
H350 – May cause cancer (Inhalation)

Signal Word: Danger

Precautionary Statements:

P264 – Wash hands and forearms thoroughly after handling
P304+P340 –IF INHALED Remove person to fresh air and keep comfortable for breathing.
P302+P352 IF ON SKIN: Wash with plenty water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention
P305+P351+P338 IF IN EYES: Rinse cautiously 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.



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Section 3. Composition/ Information on Ingredients

Chemical Name	CAS-No	Weight %
Metal Slag	65996-69-2	5-10%
Portland Cement	65997-15-1	25-35%
Fly Ash	68131-74-8	5-10%
Crystalline Silica	14808-60-7	15-25%
Titanium Dioxide	13463-67-7	<1%
Calcium Sulfoaluminate	960375-09-1	5-15%
Limestone	1317-65-3	5-15%

Section 4. First Aid Measures

First Aid Measures for Accidental:

Inhalation: If breathing is difficult, give oxygen. Get medical attention if any discomfort continues.

Ingestion: If swallowed, rinse mouth with water (only if the person is conscious). Get medical attention if any discomfort continues.

Eye contact: In the event of contact with the eyes, rinse thoroughly with clean water. Continue to rinse for at least 15 minutes and seek medical attention.

Skin contact: Wash the skin immediately with soap and water. Take off immediately all contaminated clothing. If skin irritation or an allergic skin reaction develops, get medical attention.

Most important symptoms/effects, acute and delayed:

Inhalation: Dust irritates the respiratory system and may cause coughing and difficulties in breathing.

Eye contact: Dust may be irritating to the eyes and respiratory tract and may cause a low-level inflammatory response in the lungs. Not known to cause permanent injury to eye tissue.

Skin Contact: Severely irritating to skin. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. Prolonged or repeated skin contact may cause drying, cracking, or irritation.

Ingestion: Ingestion may cause severe irritation of the mouth, the esophagus and the gastrointestinal tract.

Indication of immediate medical attention and special treatment needed: Treat symptomatically.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media: Water fog. Alcohol resistant foam. Dry chemical. Carbon dioxide or dry powder.

Unsuitable Extinguishing Media: No data available

Special Fire Fighting Procedures: Wear complete firefighting gear and self-contained breathing apparatus to protect against potential harmful and/or irritating fumes. Use water to keep fire exposed containers cool. Do not use high volume water jet on the fire as this may spread the area of the fire.

Special Protective Equipment for Fire-fighters: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Specific Hazards Arising from the substance or mixture: No data available.

**Section 6. Accidental Release Measures**

Personal Precautions, Protective Equipment and Emergency Procedures: Wear appropriate personal protective equipment. The risk of inhalation of dust must be minimized as much as possible.

Environmental Precautions: Material should not be released into the environment. Prevent product from entering drains.

Methods and Materials for Containment and Cleaning Up: Dam and absorb spillages with sand, earth or other non-combustible material. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labeled container. All waste materials should be packaged, labeled and transported in accordance with all national, state/provincial, and local requirements.

Section 7. Handling and Storage

Precautions for safe handling: No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals. Wash promptly with soap and water if skin becomes contaminated. Practice good housekeeping. Avoid conditions which create dust.

Conditions for safe storage including any incompatibilities: Keep containers tightly closed. Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures.

Section 8. Exposure Controls / Personal Protection

Control Parameters (Exposure Limits): No Data Available

Appropriate Engineering Control: Ventilation must be adequate for most operations. Protection against nuisance dust must be used when the general level exceeds 10 mg/m³.

Personal Protective Equipment:

Respiratory Protection: Wear dust masks in dusty areas. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Eye / Face Protection: Wear necessary protective equipment. Avoid contact with eyes and prolonged skin contact.

Skin Protection: Wear suitable protective clothing as protection against splashing or contamination. Wash promptly with soap and water if skin becomes contaminated. Protective gloves should be used if there is a risk of direct contact or splash. Chemical resistant gloves are recommended. If contact with forearms is likely wear gauntlet style gloves. Wear rubber boots. Wear appropriate clothing to prevent repeated or prolonged skin contact.

Hygiene Measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Additional protective measures:

Section 9. Physical and Chemical Properties

Physical State:	Solid, Powder
Colour:	Grey
Odor:	None
Melting Point/ Freezing Point:	No data available
Boiling point:	No data available
Flammability (solid, gas):	No data available
Lower and Upper Explosion limits/ Flammability Limits:	No data available
Flash Point:	No data available
Auto-ignition Temperature:	No data available
Decomposition Temperature:	No data available
pH:	10-13 Aqueous suspensions
Kinematic Viscosity:	No data available
Solubility:	No data available
Evaporation rate (ether=1):	No data available
Flammability Limits in Air:	No data available
Solubility in other solvents:	No data available
Partition coefficient (n-octanol/water):	No data available
Vapour Pressure:	No data available
Density and/or Relative Density:	No data available
Relative Vapour Density:	No data available
Specific Gravity:	No data available
Particle Characteristics:	No data available

Section 10. Stability and Reactivity

Reactivity: No dangerous reaction known under conditions of normal use.
Chemical Stability: Stable under normal conditions.
Possibility of Hazardous reactions: Product reacts with water and will generate heat.
Conditions to Avoid: No data available
Incompatible Materials / Chemicals: No data available
Hazardous Decomposition Products: No data available

Section 11. Toxicological Information

Information in the likely route of exposure:

Potential Acute Health Effects:

Skin contact: Irritating to skin.

Eye contact: Irritating to eyes.

Symptoms related to the physical, chemical and toxicological characteristics:

Target organs: No data available

Mutagenicity: No data available

Carcinogenicity: May cause cancer (Inhalation)



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Reproductive Toxicity: No data available

Tetratogenicity: No data available

Specific Target Organ Toxicity - single exposure (STOT-se): May cause respiratory irritation (Inhalation).

Specific Target Organ Toxicity - repeated exposure (STOT-re): Causes damage to organs (lung) through prolonged or repeated exposure (inhalation).

Over-exposure signs / symptoms: No data available

Delayed and immediate effects and also chronic effects from short and long-term exposure:

Short term exposure: No data available.

Long term exposure: No data available

Numerical measures of toxicity: No data available

Section 12. Ecological Information

Ecotoxicity: No determined

Persistence and degradability: No determined

Bioaccumulative potential: This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).

Mobility in soil: No determined

Other adverse effects: No determined

Section 13. Disposal Considerations

Waste treatment methods: Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Uncleaned packaging: Do not re-use empty containers for food, clothing, or products for human or animal consumption, or where skin contact can occur. Dispose of container and unused contents in accordance with federal, state, and local regulations.

Section 14. Transport Information

ADR: Not dangerous goods

IATA: Not dangerous goods

IMDG: Not dangerous goods

RID: Not dangerous goods

Section 15. Regulatory Information

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

USDOL-OSHA Hazard Communication Rule, 29 CFR 1910.1200: Ready mix concrete/cement/geopolymer is considered a hazardous chemical and should be part of any hazard communication program.

SARA (Title III), Sections 311 and 312: Ready mix concrete/cement/geopolymer qualifies as a hazardous substance with delayed health effects.

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TSCA inventory list: Substances in this product are on the TSCA inventory list.

Federal Hazardous Substance Act (USA): Ready mix concrete/cement/geopolymer is considered a hazardous substance under the Federal Hazardous Substance Act.

Hazardous Products Act: Portland cement is considered to be a hazardous material under the Hazardous Products Act as defined by the Controlled Products Regulations and is therefore subject to the labeling and MSDS requirements of the Workplace Hazardous Materials Information System (WHMIS)

Candidate List of Substances of Very High Concern for Authorization: This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

Major Accident Hazard: 96/82/EC Update: 2003

Legislation: Directive 96/82/EC does not apply

Notification status:

US. TSCA: On TSCA Inventory

DSL: This product contains the following components listed on the Canadian NDSL list. All other components are on the Canadian DSL list.

AICS: Not in compliance with the inventory

NZIoC: Not in compliance with the inventory

ENCS: On the inventory, or in compliance with the inventory

KECI: Not in compliance with the inventory

PICCS: Not in compliance with the inventory

IECSC: On the inventory, or in compliance with the inventory

Section 16. Other Information

Key Legend Information:

CAS – Chemical Abstracts Service

OSHA – Occupational Safety and Health Administration

NIOSH – National Institute for Occupational Safety and Health

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Date of issue: 12.23.19

Revision date: 12.23.2019

Supersedes: Original

Version: 1.0