Fireguard® Safety Data Sheet

Rev: 02-2018



Section 1 Product Description

Product Name: Fireguard®
Synonyms: Fireguard® Premix

General Use: To provide a lightweight insulating concrete for use in above ground steel tanks.

Product Description: A portland cement product blended with aggregates and performance enhancing admixtures.

Manufacturer: The Strong Company, Inc. 4505 Emmett Sanders Road

Pine Bluff, AR 71601 (870) 535-7617

Chemical Information: (870) 535-7617 **Emergency Number:** (800) 982-8009

Section 2 Hazards Identification

Classification of the product in accordance with paragraph (d) of §1910.1200;

Signal Word:

Danger







GHS Classification:

Hazard Statements:

Skin Corrosion/Irritation, Category 1 A
Serious Eye Damage/Eye Irritation, Category 1

Skin Sensitization, Category 1

Causes severe skin burns and eye damage.

Causes serious eye damage.

May cause an allergic skin reaction.

May cause respiratory irritation.

Carcinogenicity, Category 1A

Specific Target Organ Toxicity Single Exposure, Category 3 Specific Target Organ Toxicity Repeat Exposure, Category 2

May cause cancer.

May cause damage to lungs through prolonged or repeated

inhalation.

Precautionary Statements:

Prevention:

Obtain special instructions before use.

Do not handle until all instructions have been read and understood.

Do not breathe dust.

Wash hands, forearms, and other exposed areas thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves, clothing, and eye and face protection.

Use personal protective equipment as required.

Response:

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash with plenty of soap and water. Wash contaminated clothing before reuse.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

IF exposed or concerned: Immediately call a POISON CENTER or physician.

Specific treatment (see Section 4)

Storage:

Store locked up.

Store in a dry, well-ventilated place.

Keep product sealed in original packaging until use.

Disposal:

Dispose of contents and container in accordance with local, regional, national, and international regulations.

Section 3	Composition/Information on Ingredients	oosition/Information on Ingredients			
Chemical Name:	Common Name:	CAS #:	Weight %:*		
Portland cement	Portland cement	65997-15-1	>50%		
Perlite expanded	Perlite expanded	93763-70-3	<50%		
Crystalline silica	Quartz	14808-60-7	<2%		
Respirable fraction, all so	urces		<1%		
Proprietary admixtures*	Concrete admixtures	Varies*	<5%		
*Proprietary admixtures ar	nd weight percentages are claimed as trade s	ecrets of The Strong Compa	any Inc		

Section 4 First-Aid Measures

Inhalation: Remove to well-ventilated place. If breathing difficulty occurs, administer oxygen. Seek medical help if

coughing and other medical symptoms do not subside.

Eye Contact: Immediately flush eyes with copious amounts of water. Continue flushing for 15 minutes including under

the lids to remove all particles. Call a physician immediately if irritation persists.

Skin Contact: Wash skin with pH-neutral soap and water. Apply moisture renewing lotions to heal dry, irritated skin. Seek

medical attention in all cases of severe irritation or burns.

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

immediately.

Section 5 Fire-Fighting Measures

General Hazards: Product is not hazardous during normal fire-fighting procedures and contains less than

1% organic substances that may produce smoke, fumes, and/or hazardous gases.

Extinguishing Media: Carbon dioxide, water, dry chemical, or foam may be used if smoldering occurs.

Fire-Fighting Protection:No special protection required. **Fire and/or Explosion Hazards:**No fire or explosion hazards.

Hazardous Combustion Products: Smoke, fumes, carbon dioxide, or carbon monoxide may be released.

Section 6 Accidental Release Measures

Steps to Take in Case Material is Released or Spilled:

Product is not considered hazardous according to RCRA (40 CFR Part 261). Follow personal protective equipment recommendations found in Section 8 of this SDS at a minimum. Avoid creating dust and use adequate ventilation and/or dust collection during clean-up. Shovel or

vacuum product into a sealed container pending a waste disposal evaluation. Do not discharge

into lakes, ponds, streams, or waterways.

Section 7 Handling and Storage

Handling: Avoid creating and breathing dust. At a minimum, follow personal protective equipment

recommendations found in Section 8 of this SDS.

Storage: Product reacts with water. Store product in a dry location. Keep packaging sealed until use.

Section 8 Exposure Controls/Personal Protection

	0:	ACGIH TLV		
Chemical Name:	Total Dust:	Respirable Fraction:	TWA:	
Portland cement	15 mg/m ³	5 mg/m ³	10 mg/m ³	
Perlite expanded	15 mg/m ³	5 mg/m ³	10 mg/m ³	
Crystalline silica	N/A	0.05 mg/m ³	0.025 mg/m ³	
Proprietary admixtures	15 mg/m ³	5 mg/m ³	10 mg/m ³	

Control Parameters

Engineering Measures: Use local exhaust ventilation or other engineering controls to reduce dust

concentrations below overexposure levels. Refer to ACGIH publication "Industrial

Ventilation" or similar publications for design of ventilation systems.

Personal Protective Equipment (PPE)

Respiratory Protection: Respirators are recommended during normal operation. When concentrations

exceed PEL limits, respirator use is required.

Respirator Type(s): N95 filtering facepiece or P95 half facepiece respirators are adequate for use

during normal operation.

Eye Protection: Wear tight fitting safety goggles to prevent contact with the eyes. Contact lenses

should not be worn when handling products containing cement.

Skin Protection: Wear impervious, alkali resistant gloves, closed-toe shoes or boots, and protective

clothing to prevent contact with the skin.

Glove Type(s): Nitrile or latex gloves with a recommended thickness of 6 mils or greater.

Physical and Chemical Properties Section 9

See Section 3 Specific Gravity: Formula: Varies (mixture) Appearance: Gray to brown powder **Vapor Pressure:** N/A (solid) Evaporation Rate (BuAc = 1): N/A (solid) Odor: Odorless Vapor Density (Air = 1): **Lower Flammability Limit:** Not combustible N/A (solid) pH: 11 – 13 (10% slurry in water) Solubility in Water: <1%

Melting Point: Viscosity: N/A (solid) N/A N/A

Boiling Point: N/A Volatile Organic Compounds:

Stability and Reactivity **Section 10**

Reactivity: Reacts readily with water and produces an exothermic reaction (heat) and

caustic calcium hydroxide.

Stability: Stable under normal conditions. **Conditions to Avoid:** Unintentional contact with water.

Incompatible Materials: Aluminum powder and other alkali and alkaline earth elements react with

product to liberate hydrogen gas. Acids violently react with product and generate a large amount of heat. Hydrofluoric acid will dissolve the silica found

in portland cement, fly ash, and masonry sand.

Hazardous Decomposition Products: None known. **Hazardous Polymerization:** Will not occur.

Section 11 Toxicological Information

Route(s) of Entry: Inhalation, eye contact, skin contact, ingestion Target Organs: Acute: Eyes, Respiratory System, Skin, Stomach

> Respiratory System, Immune System, Skin, Kidneys, Joints Chronic:

Acute Symptoms: Inhalation of the product can irritate the nose and respiratory tract causing inflammation,

sneezing, runny nose, and/or coughing. Contact with moist tissues areas such as the eyes and nose can cause mild irritation to severe burns or even blindness. These areas should be flushed with water immediately. Skin contact can cause dryness or cracking and trigger dermatitis in sensitive individuals. Ingestion of small amounts may cause nausea and is not known to be harmful; however, ingestion of large amounts can lead to severe burns of the mouth, throat,

stomach, and diaestive tract.

Delayed Symptoms: Prolonged skin and moist tissue contact can lead to delayed chemical burns that may range from

> mild to third degree. Burns can develop with little to no warning as pain or discomfort is normally not felt immediately after contact. Full extent of the damage may not be felt until several hours after contact. As such, pain or discomfort should not be used to determine the severity of burns.

Always use pH-neutral soap and water to immediately wash areas that were exposed.

Chronic Symptoms: Prolonged or repeated exposure to dust may lead to a benign form of pneumoconiosis.

> Dermatitis may occur in individuals with repeated exposure due to the presence of small amounts of hexavalent chromium in portland cement. Crystalline silica is listed by the IARC as a known carcinogen and causes the chronic lung disease known as silicosis. Silicosis is known to increase the risk of contracting tuberculosis. Crystalline silica has also been shown to lead to autoimmune

and renal disorders.

Acute Toxicity Chemical Name: CAS #: Oral LD50: Dermal LD50: Inhalation LC50: Portland cement 65997-15-1 Not determined Not determined Not determined Not determined Perlite expanded 93763-70-3 Not determined Not determined Crystalline silica 14808-60-7 Not determined Not determined Not determined Proprietary admixtures **Varies** Not determined Not determined Not determined

Carcinogenicity

Chemical Name: CAS #: IARC: NTP: OSHA: Portland cement 65997-15-1 Not listed Not listed Not listed Perlite expanded 93763-70-3 Not listed Not listed Not listed 14808-60-7 Listed, Group 1 Crystalline silica Listed, Known Not listed Proprietary admixtures Not listed Varies Not listed Not listed Section 12 Ecological Information

Overview: Product is not expected to present an ecological hazard.

Mobility: Product is a solid and is expected to have low to zero mobility in soil.

Persistence: Product is expected to persist in the environment for an extensive period of time as it changes

from a fine powder to a hard solid when exposed to water.

Degradability: Product is not expected to biodegrade quickly.

Other Adverse Effects: None known.

Section 13 Disposal Considerations

Overview: Not considered a hazardous waste under RCRA 40 CFR Part 261.

Disposal Methods: Dispose of in accordance with local, state, and federal regulations. Always contact a

permitted waste disposer to ensure compliance. Refer to Section 8 to minimize exposure.

Waste Disposal Code(s): N/A

Section 14 Transport Information

Overview: Not considered a hazardous substance under U.S. DOT regulations.

UN No.: N/A Hazard Class: N/A

UN Shipping Name: N/A Packing Group No.: N/A

Section 15 Regulatory Information

OSHA HCS: The components of this product are considered hazardous chemicals under this regulation

and should be included in an employer's Hazard Communication Program.

TSCA Status: All non-proprietary components in this product are on the TSCA Inventory.

FHSA: This product is considered a hazardous substance under the act and is subject to its statutes.

Reporting Requirements:		EPCRA (SARA Title III)				CERCLA	CAA
Chemical Name:	§ 302:	§ 304:	§ 311: §	312:	§ 313:	40 CFR 302:	112(r)
Portland cement	No	No	Yes, 10,000 lb Yes,	10,000 lb	No	No	No
Perlite expanded	No	No	Yes, 10,000 lb Yes,	10,000 lb	No	No	No
Crystalline silica	No	No	Yes, 10,000 lb Yes,	10,000 lb	No	No	No
Proprietary admixtures	No	No	Yes, 10,000 lb Yes,	10,000 lb	No	No	No

California Prop. 65: Components of this product are known to the State of California to cause cancer, birth defects,

or reproductive harm.

Section 16 Other Information

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to The Strong Company, Inc. that we believe to be accurate. The Strong Company, Inc. makes no representation or guarantee as to the suitability of this information to a particular application of this product covered in this (Material) Safety Data Sheet. Users have the responsibility to comply with all health, safety, and environmental laws and regulations when using this product and should determine the suitability of this product for its intended use.

Glossary	,
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ACGIH	American Conference of Governmental	IARC	International Agency for Research on Cancer
	Industrial Hygienists	LD(C)50	Median Lethal Dose (Concentration)
CAA	Clean Air Act	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	N/A	Not Available or Not Applicable
	Compensation, and Liability Act	NTP	National Toxicology Program
CFR	Code of Federal Regulations	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization
			Act
EPCRA	Emergency Planning and Community Right-to-	TLV	Threshold Limit Value
	Know Act	TSCA	Toxic Substances Control Act
FHSA	Federal Hazardous Substances Act	TWA	8-Hour Time Weighted Average
HCS	Hazard Communication Standard		-