# SAFETY DATA SHEET

# **SECTION 1) IDENTIFICATION**

Product ID: Medium Duty Refractory Mortar

Product Name: Cementitious Construction Mortar

Revision Date: Mar 30, 2023 Date Printed: Mar 30, 2023

Version: 1.0 Supersedes Date: N.A.

Manufacturer's Name: BLUESTONE PRODUCTS, a TCC Materials Company

Address: 2025 CENTRE POINTE BLVD, MENDOTA HEIGHTS, MN, US, 55120

Emergency Phone: 800-424-9300 Information Phone Number: 651-688-9116

Fax:

Product/Recommended Uses:

# **SECTION 2) HAZARDS IDENTIFICATION**

### Classification

Acute toxicity Dermal - Category 5

Acute toxicity Oral - Category 4

Carcinogenicity - Category 1A

Respiratory Sensitizer (Solid/Liquid) - Category 1

Serious Eye Damage - Category 1

Skin Corrosion - Category 1B

Skin Sensitizer - Category 1

Specific Target Organ Toxicity - Repeated Exposure - Category 1

Specific Target Organ Toxicity - Single Exposure - Category 3

Chronic aquatic toxicity - Category 4

Safety data sheet prepared in accordance to the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Workplace Hazardous Materials Information System (WHMIS).

# **Pictograms**







# **Signal Word**

Danger

# **Hazardous Statements - Health**

H313 - May be harmful in contact with skin

H302 - Harmful if swallowed

H350 - May cause cancer

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

- H314 Causes severe skin burns and eye damage
- H317 May cause an allergic skin reaction
- H372 Causes damage to organs through prolonged or repeated exposure.

#### **Hazardous Statements - Environmental**

H413 - May cause long lasting harmful effects to aquatic life

# **Precautionary Statements - General**

- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P103 Read label before use.

# **Precautionary Statements - Prevention**

- P264 Wash thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P280 Wear protective gloves, protective clothing, eye protection/face protection.
- P273 Avoid release to the environment.
- P284 Wear respiratory protection.
- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
- P272 Contaminated work clothing should not be allowed out of the workplace.

### **Precautionary Statements - Response**

- P312 Call a POISON CENTER/doctor if you feel unwell.
- P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
- P330 Rinse mouth.
- P308 + P313 IF exposed or concerned: Get medical advice/attention.
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- ${\sf P342+P311-If\ experiencing\ respiratory\ symptoms:\ Call\ a\ POISON\ CENTER/doctor.}$
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 Immediately call a POISON CENTER or doctor.
- P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
- P363 Wash contaminated clothing before reuse.
- P321 Specific treatment (see First-Aid on this label).
- P302 + P352 IF ON SKIN: Wash with plenty of water.
- P333 + P313 If skin irritation or a rash occurs: Get medical advice/attention.
- P362 + P364 Take off contaminated clothing. And wash it before reuse.

### **Precautionary Statements - Storage**

P405 - Store locked up.

### **Precautionary Statements - Disposal**

P501 - Dispose of contents/container in accordance with local/national/international regulations.

# **Hazards Not Otherwise Classified (HNOC)**

None.

#### **SECTION 3) COMPOSITION/INFORMATION ON INGREDIENTS** CAS **GHS Classifications Chemical Name** % By Weight 0014808-60-7 Carc. 1A, H350; STOT RE 1, H372 50.00% - 80.00% SILICA, CRYSTALLINE 0065997-16-2 CEMENT, ALUMINA, CHEMICALS Acute Tox. Derm. 4, H312; Acute Tox. 20.00% - 50.00% Oral 4, H302; Aquatic Chronic 4, H413; Carc. 1A, H350; Eye Dam. 1, H318; Resp. Sens. 1, H334; Skin Corr. 1B, H314; Skin Sens. 1, H317

Specific chemical identity and/or exact percentage (concentration) of the composition has been withheld to protect confidentiality

# **SECTION 4) FIRST-AID MEASURES**

### Inhalation

Remove source of exposure or move person to fresh air and keep comfortable for breathing. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by the POISON CENTER/doctor. Immediately call a POISON CENTER or doctor.

### **Eye Contact**

Gently brush product off face. Do not rub eyes. Let the eyes water naturally for a few minutes. Look right and left, then up and down. Do not attempt to manually remove anything from the eyes. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for a duration of 30 minutes or until medical aid is available. Take care not to rinse contaminated water into the unaffected eye or onto the face. Immediately call a POISON CENTER or doctor. Avoid direct contact. Wear chemical protective gloves, if necessary.

#### **Skin Contact**

Rinse with lukewarm, gently flowing water for 5 minutes or until product is removed. Take off immediately all contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Rinse skin with lukewarm, gently flowing water/shower for a duration of 30 minutes or until medical aid is available. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before re-use or discard.

### Ingestion

Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor. If vomiting occurs naturally, lie on your side, in the recovery position.

#### Most important symptoms and effects, both acute and delayed

No data available.

### Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. No specific treatment is required. No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Treat according to symptoms (decontamination, vital functions), no known specific antidote. Treatment should be supportive and based on the judgement of the physician in response to the reaction of the patient.

# **SECTION 5) FIRE-FIGHTING MEASURES**

# **Suitable Extinguishing Media**

Small Fire: Dry chemical, foam, carbon dioxide, water-spray or alcohol-resistant foam. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Large Fire: Water spray, fog or alcohol-resistant foam.

# **Unsuitable Extinguishing Media**

Do not use straight stream of water.

#### **Specific Hazards in Case of Fire**

Runoff may pollute waterways Fire will produce irritating and corrosive gases.

### **Fire-fighting Procedures**

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Cool containers with flooding quantities of water until well after fire is out. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

# **Special Protective Actions**

Wear protective pressure self-contained breathing apparatus (SCBA) and full turnout gear.

# **SECTION 6) ACCIDENTAL RELEASE MEASURES**

### **Emergency Procedure**

Ventilate closed spaces before entering. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing. Evacuate and isolate hazard area and keep unauthorized personnel away.

# **Recommended Equipment**

Wear chemical protective clothing and positive pressure self-contained breathing apparatus (SCBA). Breathing protection is required.

#### **Personal Precautions**

Do not breathe dust. Do not get on skin, eyes or clothing.

#### **Environmental Precautions**

Stop spill/release if it can be done safely. Prevent spilled material and water from clean-up/firefighting from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and Materials for Containment and Cleaning up

Avoid raising dust. Safely collect powdered material and deposit in sealed containers for disposal. Ventilate and wash area after clean-up is complete

### **SECTION 7) HANDLING AND STORAGE**

#### **General**

Wash hands after use. Use good personal hygiene practices. Eating, drinking and smoking in work areas is prohibited. Remove contaminated clothing and protective equipment before entering eating areas. Eyewash stations and showers should be available in areas where this material is used and stored All containers must be properly labelled. Do not get in eyes, on skin, or on clothing. Do not breathe dust.

#### **Ventilation Requirements**

Use only with adequate ventilation to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source. Report ventilation failures immediately.

### **Storage Room Requirements**

Store in a cool, dry, well ventilated area, away from sources of ignition and incompatibilities. Keep containers securely sealed when not in use. Containers that have been opened must be carefully resealed to prevent leakage. Indoor storage should meet OSHA standards and appropriate fire codes. Empty containers retain residue and may be dangerous.

### **SECTION 8) EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **Eye protection**

Wear Dust-proof goggles with side shields

### **Skin Protection**

Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Use of chemical resistant gloves classified under Standard EN374: Protective gloves against chemicals and microorganisms. Examples of preferred glove barrier materials include: Butyl rubber, Polyethylene, Chlorinated polyethylene, Ethyl vinyl alcohol laminate ("EVAL"). Examples of acceptable glove barrier materials include: Viton, Neoprene, Polyvinyl chloride ("PVC" or "vinyl"), Nitrile/butadiene rubber ("nitrile" or "NBR").

Full contact Material: butyl-rubber Minimum layer thickness: 0.3 mm Break through time: 480 min

Material tested: Butoject® (KCL 897 / Aldrich Z677647, Size M).

Splash contact Material: Nitrile rubber Minimum layer thickness: 0.4 mm Break through time: 30 min

Material tested: Camatril® (KCL 730 / Aldrich Z677442, Size M).

Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374) is recommended. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Use of an apron and over-boots of chemically impervious materials such as neoprene or nitrile rubber. Launder soiled clothes or properly disposed of contaminated material, which cannot be decontaminated.

### Respiratory protection

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 should be followed. Check with respiratory protective equipment suppliers.

# **Appropriate Engineering Controls**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value

Chemical Name	ACGIH TWA (mg/m3)	ACGIH TWA (ppm)	ACGIH STEL (mg/m3)	ACGIH STEL (ppm)	ACGIH Carcinogen	ACGIH TLV Basis	ACGIH Notations	OSHA TWA (mg/m3)
CEMENT, ALUMINA, CHEMICALS	1 (R)				A4	Pneumoconiosi s; LRT irr; neurotoxicity	A4	
SILICA, CRYSTALLINE	0.025 (R)				A2	Pulmonary fibrosis; lung cancer	A2	[10 mg/m3 percent SiO2+2 / 250 percent SiO2+5 mppcf]; [30 mg/m3 percent SiO2+2];

Chemical Name	OSHA TWA (ppm)	OSHA STEL (mg/m3)	OSHA STEL (ppm)	OSHA Carcinogen	OSHA Skin designation	OSHA Tables (Z1, Z2, Z3)	NIOSH TWA (mg/m3)	NIOSH TWA (ppm)
CEMENT, ALUMINA, CHEMICALS								
SILICA, CRYSTALLINE	а					[1,3]; [3];	0.05e	

Chemical Name	NIOSH STEL (mg/m3)	NIOSH STEL (ppm)	NIOSH Carcinogen
CEMENT, ALUMINA, CHEMICALS			
SILICA, CRYSTALLINE			1

<sup>(</sup>C) - Ceiling limit, (R) - Respirable fraction, A2 - Suspected Human Carcinogen, A4 - Not Classifiable as a Human Carcinogen, irr - Irritation, LRT - Lower respiratory tract

# **SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES**

# **Physical and Chemical Properties**

Density	25.70 lb/gal	
Specific Gravity	3.08	
% Solids By Weight	100.00%	
Appearance	N/A	
Odor Description	N/A	
рН	N/A	
Water Solubility	N/A	
Flammability	N/A	
Flash Point	N/A	
Viscosity	N/A	
Lower Explosion Level	N/A	
Upper Explosion Level	N/A	
Vapor Density	N/A	
Freezing Point	N/A	
Melting Point	N/A	
Low Boiling Point	N/A	

# **SECTION 10) STABILITY AND REACTIVITY**

# **Stability**

Stable under normal storage and handling conditions.

#### **Conditions To Avoid**

Avoid heat, sparks, flame, high temperature and contact with incompatible materials.

N/A

N/A

### **Hazardous Reactions/Polymerization**

Will not occur. No data available.

# **Incompatible Materials**

Strong bases, acids, and oxidizing agents.

# **Hazardous Decomposition Products**

Oxides of carbon.

# **SECTION 11) TOXICOLOGICAL INFORMATION**

# **Acute Toxicity**

May be harmful in contact with skin

Harmful if swallowed

The Acute Toxicity Estimate (ATE) for an oral exposure to this mixture is -1 mg/kg body weight

The Acute Toxicity Estimate (ATE) for a dermal exposure to this mixture is -1 mg/kg body weight

The Acute Toxicity Estimate (ATE) for an inhalation (vapour) exposure to this mixture is >20 mg/l

### **Aspiration Hazard**

Based on available data, the classification criteria are not met.

# Carcinogenicity

May cause cancer

# **Germ Cell Mutagenicity**

Based on available data, the classification criteria are not met.

# **Reproductive Toxicity**

Based on available data, the classification criteria are not met.

# Respiratory/Skin Sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled

May cause an allergic skin reaction

# Serious Eye Damage/Irritation

Causes serious eye damage

# **Skin Corrosion/Irritation**

Causes severe skin burns and eye damage

# **Specific Target Organ Toxicity - Repeated Exposure**

Causes damage to organs through prolonged or repeated exposure.

### **Specific Target Organ Toxicity - Single Exposure**

Based on available data, the classification criteria are not met.

# **Likely Routes of Exposure**

Inhalation, Ingestion, Skin contact, Eye contact

# **Chronic Exposure**

0014808-60-7 SILICA, CRYSTALLINE

Prolonged inhalation of respirable crystalline silica dust can result in lung disease (i.e. silicosis and/or lung cancer). Symptoms include coughing, shortness of breath, wheezing and reduced pulmonary function.

### **Potential Health Effects - Miscellaneous**

0014808-60-7 SILICA, CRYSTALLINE

Is an IARC, NTP or OSHA carcinogen. Repeated overexposure to crystalline silica may lead to x-ray changes and chronic lung disease. Inhalation of high dust concentrations may cause: breathing difficulties, lung injury. WARNING: This chemical is known to the State of California to cause cancer.

# **SECTION 12) ECOLOGICAL INFORMATION**

### **Toxicity**

May cause long lasting harmful effects to aquatic life

**Persistence and Degradability** 

No data available.

**Bioaccumulative Potential** 

No data available.

**Mobility in Soil** 

No data available.

**Other Adverse Effects** 

No data available.

# **SECTION 13) DISPOSAL CONSIDERATIONS**

# **Waste Disposal**

It is the responsibility of the user of the product to determine at the time of disposal whether the product meets local criteria for hazardous waste. Waste management should be in full compliance with national, state and local laws. Empty Containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes.

# **SECTION 14) TRANSPORT INFORMATION**

	U.S. DOT Information	IMDG Information	IATA Information
UN Number:	UN1759	UN1759	UN1759
Proper shipping name:	Corrosive solids, n.o.s.	Corrosive solids, n.o.s.	Corrosive solids, n.o.s.
Hazard Class:	8	8	8
Packaging:	II	II	II
Hazardous substance (RQ):	No Data Available		
Marine Pollutant:	No Data Available	No Data Available	
Note / Special Provision:	No Data Available	No Data Available	No Data Available
Toxic-Inhalation Hazard:	No Data Available		

#### **SECTION 15) REGULATORY INFORMATION**

### Safety, health and environmental regulations

The product has been evaluated against the following relevant regulations: U.S.A Toxic Substance Control Act (TSCA) California Proposition 65 Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312 Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313 Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) Section 103

CAS	Chemical Name	% By Weight	Regulation List
0014808-60-7	SILICA, CRYSTALLINE	50.00% - 80.00%	SARA312, TSCA, CA_Prop65 - California Proposition 65, CA_Prop65_Type_Toxicity_Cancer - CA_Proposition65_Type_Toxicity_Cancer
0065997-16-2	CEMENT, ALUMINA, CHEMICALS	20.00% - 50.00%	SARA312, TSCA



**WARNING:** This product can expose you to chemicals including SILICA, CRYSTALLINE, which is [are] known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

# **SECTION 16) OTHER INFORMATION**

### **Glossary**

ACGIH - American Conference of Governmental Industrial Hygienists; CAS - Chemical Abstracts Service; Chemtrec - Chemical Transportation Emergency Center; DSL - Domestic Substances List; ESL- Effects screening levels; GHS - "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations; HMIS - Hazardous Material Information Service; IATA - Dangerous Goods Regulations (DGR) for the air transport (IATA); IMDG - International Maritime Dangerous Goods Code; LC - Lethal Concentration; LD - Lethal Dose; NFPA - National Fire Protection Association; OEL - Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL - Permissible Exposure Limit; SARA 313 - Superfund Amendments and Reauthorization Act, Section 313; SCBA - Self Contained Breathing Apparatus; ppm - parts per million; STEL - Short-term exposure limit; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act Public Law 94-469; TWA - Time-weighted average; US DOT- US Department of Transportation.

#### Version 1.0:

Revision Date: Mar 30, 2023

First Edition.

# Full text of H-Statements referred to under Section 3

H372	Causes damage to organs through prolonged or repeated exposure.
H318	Causes serious eye damage
H314	Causes severe skin burns and eye damage
H302	Harmful if swallowed
H312	Harmful in contact with skin
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H317	May cause an allergic skin reaction
H350	May cause cancer
H413	May cause long lasting harmful effects to aquatic life

# **DISCLAIMER**

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

Medium Duty Refractory Mortar