

SAFETY DATA SHEET

DOMESTIC FIREPLACE MORTAR

HMIS DOMESTIC FIREPLACE MORTAR

HEALTH	1*
FLAMMABILITY	0
PHYSICAL	0
PERSONAL PROTECTION	B

*Indicates a chronic health hazard



DANGER

*Harmful if inhaled.

*May cause cancer.

WARNING

*Causes skin irritation.

*Causes eye irritation.

1 Identification

Product Name:	DOMESTIC FIREPLACE MORTAR
Category:	REFRACTORY MORTAR
Description:	WET AIR-SETTING MEDIUM DUTY REFRACTORY MORTAR
Manufacturer:	

2 Hazard Identification

Potential Health Effects	Acute	Chronic
Eyes	Dust or grains can cause mechanical irritation. Liquid binder is caustic and could cause irritation or burning.	None known.
Skin	Dry material can cause abrasions; wet material could cause dermatitis on sensitive types of skin.	None known.
Inhalation	Dust from tear-out may cause upper respiratory irritation.	Target Organ: Upper Respiratory System. Repeated inhalation of dusts containing crystalline silica over time can cause progressive fibrotic lung disease [silicosis]** and increases the risks of developing respiratory cancer.
Ingestion	Unknown. An unlikely route of exposure. In sufficient quantity, may cause gastrointestinal disturbances.	None known.

*This product is supplied wet; therefore, constitutes no airborne dust problem. Dust could be present during tear out.

**According to Group 1 of the International Agency for Research on Cancer (IARC), there is sufficient evidence in humans for the carcinogenicity of inhaled crystalline silica in the form of quartz or cristobalite from occupational sources.

Medical Conditions Aggravated by Exposure: Pre-existing disease or other conditions of the lungs, skin, eyes and mucous membranes. Persons that develop silicosis are more likely to develop tuberculosis. Smoking and exposure to crystalline silica increases the risks of lung damage. Chronic obstructive pulmonary disease and autoimmune related diseases have been linked to crystalline silica exposure.

3 Composition/Information of Ingredients

Chemical Name	CAS-No	Weight %
Crystalline Silica (total)		50-70
Cristobalite	14464-46-1	
Quartz	14808-60-7	
Sodium Silicate	1344-09-8	5-18
Sodium Hydroxide	1310-73-2	1-5

4 First Aid Measures

Eye Contact:	Flush with clean water for 15 minutes. If irritation persists, consult physician.
Skin Contact:	Wash with mild soap and water. If irritation occurs, consult physician.
Inhalation:	Remove to fresh air. Seek medical attention if coughing or other symptoms persist.
Ingestion:	As shipped, product is not likely to be ingested; however, do not induce vomiting unless instructed by a physician.

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5 Fire Fighting Measures

Flammable Properties:	Nonflammable.
Suitable extinguishing agents:	Use firefighting measures that suit the environment.
Extinguishing Media:	Noncombustible. As appropriate for surrounding fire.
Protective equipment:	No special measures required.
Precautions for Firefighters:	Firefighters should wear NIOSH approved, positive pressure, self-contained breathing apparatus and full protective clothing where appropriate.
Unusual Fire & Explosion Hazards:	None.

6 Accidental Release Measures

Personal Precautions:	This product is caustic; skin and eye contact should be avoided.
Small/Large Spill:	Scoop spilled material into a container for reclamation or disposal.
Methods for Clean Up:	Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

7 Handling and Storage

Handling:	Prevent formation of dust. Ensure proper ventilation. Keep respiratory protective device available.
Storage:	Store in a dry place away from extreme heat.

8 Exposure Controls and Personal Protection

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL (respirable dust)
crystalline silica (cristobalite) 14464-46-1	0.025 R mg/m ³ Respirable Dust	½ the value calculated from the respirable dust formulae for Quartz
crystalline silica (quartz) 14808-60-7	0.025 R mg/m ³	<u>10mg/m3</u> % SiO ₂ + 2 = STEL/CEIL (C) (respirable dust)
sodium silicate 1344-09-8	Not Established.	Not Established.
sodium hydroxide 1310-73-2	C2mg/m3 [STEL/CEIL (C)]	2mg/m3

Engineering Measures:	General mechanical ventilation is usually adequate.
Eye/Face Protection:	Goggles or safety glasses with side shields should be worn. Eye wash stations are recommended.
Skin and Body Protection:	Impervious gloves and long-sleeved and long-legged clothing should be worn to prevent skin contact.
Respiratory Protection:	Use NIOSH or MSHA approved respirators as listed in accordance with 29 CFR Part 134 for existing conditions. Appropriate respirator selection is dependent upon the magnitude of exposure. A medical surveillance program should be implemented in accordance with NIOSH recommendations and other applicable federal, state, local or provincial requirements.
Work/Hygienic Practices:	Avoid contact with skin, eyes and clothing. After handling this product, wash hands before eating or drinking.

9 Physical and Chemical Properties

Appearance:	Grayish Paste	Auto ignition:	Product is not self-igniting.
Physical State:	Liquid	Odor:	Earthy
Water Solubility:	Moderate [binder is water soluble]	Flash Point:	Not applicable.
Boiling Point/Range:	Not Applicable.	Explosion Limits:	Product does not present an explosion hazard.
Melting Point:	2700°F	Specific Gravity:	2.00 g/cc

10 Stability and Reactivity

Stability:	Product is stable under normal conditions of use, storage, and transportation.
Incompatible Products:	Avoid contact with aluminum.
Conditions to Avoid:	Avoid dust formation. Refractories containing crystalline silica may, after service, contain more or less crystalline silica. Care must be taken to avoid and/or control dust from demolition. If in doubt of the proper protection, seek advice from a safety professional.

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11 Toxicological Information

Acute Toxicity-- Product Information: No data for LD50 or LC50 for oral, dermal or inhalation routes of administration.
Chronic Toxicity: Irritant to skin and mucous membranes.
Carcinogenicity: Carcinogenic if inhaled.

Chemical Name	Carcinogenicity Category
crystalline silica (cristobalite) 14464-46-1	IARC-1, MAK-1, NIOSH-Ca, NTP-K, TLV-A2
crystalline silica (quartz) 14808-60-7	IARC-1, MAK-1, NIOSH-Ca, NTP-K, TLV-A2

Target Organ Effects: Lungs, Eyes, Respiratory system, Skin

12 Ecological Information

Eco toxicological/chemical fate information: not available.

13 Disposal Information

Disposal of Product: As supplied, product may be disposed of in an approved landfill, in accordance with federal, state, and local regulations. Dust created during demolition of used product may contain crystalline silica.
Packaging Disposal: Reuse, recycle or treat as industrial waste.

14 Transport Information

U.S.A. DOT: Not Regulated.
Canadian TDG: Not Regulated.
Additional information: Not dangerous according to available information.

15 Regulatory Information

International Inventories

TSCA: This substance or all the ingredients of this product are on the Chemical Substances Inventory of the Toxic Substances Control Act [TSCA Inventory]. The presence on this list does not require any legal reporting. All Components Listed.
DSL: All Components Listed.

U.S. Federal Regulations

SARA 313: No material listed in the components in Section 3 of this MSDS is on the SARA 313 list.
California: California Proposition 65: This product contains crystalline silica, chemical known to the State of California to cause cancer.
Other States: Crystalline silica products are not known to be regulated by states other than California; however, state and local OSHA and EPA regulations may apply to these products. Contact your local agency if in doubt.

WHMIS Hazard Class

Class D - Division 2 - Sub Division A: Untested mixture containing a very toxic material

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

16 Other Information

SDS Status: Replaces all prior SDS.

Note: This material safety data sheet contains confidential proprietary information and is not to be disclosed to the general public or to competition except as required by law. The information accumulated herein is believed to be accurate but is not warranted to be, whether originating with Alsey Refractories Co. or not. This information is offered solely for use in your evaluation of this product in respect to safety, health, and environmental hazards.

SDS END