



Material Safety Data Sheet

binder is caustic and could cause irritation or burning.

Dry material can cause abrasions; wet material could

Not considered a likely route of exposure under normal

product use conditions. May cause gastrointestinal

cause dermatitis on sensitive types of skin.

Dust from tear-out may cause upper respiratory

HMIS	
Health Hazard	1*
Fire Hazard	0
Reactivity	0

Skin

Inhalation*

Ingestion

*Indicates a chronic health hazard.

irritation.

1 Product & Company Identification					
Manufacturer's Name:		e: Alsey Refractories Company Highway 106 Alsey, IL 62610 Phone: 314-963-7900		luct Name: luct Type:	Alsey Exeter 70 WAS Mortar 70% Alumina Wet Aluminum Sulfate Mortar
2 Hazards Identification					
Potential Health Effects	Acute			Chronic	
Eyes Dust or grains can cause mechanical irritation. Liquid			Not knowr	l.	

Not known.

Unknown.

respiratory cancer.

Repeated inhalation of dusts containing crystalline silica

over time can cause progressive fibrotic lung disease (silicosis)** and increase the risks of developing

 irritation if swallowed. Product is relatively non-toxic.

 * 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 guartz 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 Comp	osition/Information on Hazardous Ing	gredients		
	Name	CAS-No	Weight %		
Alumina		1344-28-1	50-100%		
Silica (Total)			Less than 30%		
Crystalline S	Silica (Total)				
Cristobalite		14464-46-1			
Quartz		14808-60-7			
Amorphous		60676-86-0			
Aluminum Sulfate		10043-01-3	Less than 10%		
		4 First Aid Measures			
Eye Contact:	Flush with clean water for 15 minutes. Consult a physician if irritation persists.				
Skin Contact:	Wash with mild soap and water. If irritation continues, seek medical attention.				
Ingestion:	As shipped, product is not likely to be ingested; however, do not induce vomiting unless instructed by a physician. Product is non-toxic as supplied, but its abrasive nature could damage internal organs. Seek medical attention.				
Inhalation:	Remove to fresh air. Seek medical attention if coughing or other symptoms persist.				





Material Safety Data Sheet

			5 F	ire Fighting Measures	5
Flammable Propertie	s:	Non flammable.			
Extinguishing Media:		Not combustible	e. As	s appropriate for surround	ling fire.
Precautions for Firefi	ghters	Firefighters show	uld v	wear a NIOSH approved fu	Ill-face, self-contained breathing apparatus (SCBA)
		operated in pos	itive	pressure mode and full to	urnout or bunker gear.
Unusual Fire & Explo	sion Ha	azards: None Known			
				dental Release Measu	
Personal Precautions		This product is acidic: skin and eye contact should be avoided.			
Small/Large Spill:					
Methods for Clean U	thods for Clean Up: All personnel engaged in cleanup should adhere to the instruction outlined in Section 8 for persona		e instruction outlined in Section 8 for personal		
protection.					
			7 H	Handling and Storage	
Handling: Ave	oid dire	ect contact with product	oro	dusts from product by follo	owing Section 8 (Personal Protection).
Storage: Sto	re in a	dry area away from extr	rem	e heat	
		8 Exposur	e C	ontrols and Personal	Protection
Exposure Guidelines		1			
Chemical Name		ACGIH TLV			OSHA PEL
Alumina		withdrawn		15 mg/m3 (total dust); 5	5mg/m3 (respirable fraction)
Crystalline Silica (Tot	al)				
Cristobalite		0.025 R mg/m3			rom the respirable dust formulae for Quartz
Quartz		0.025 R mg/m3		30mg/m3÷% SiO2+2 (tot	tal dust) or 10mg/m3÷% SiO2 +2 (respirable dust)
Amorphous withdrawn					
Aluminum Sulfate		Not established	ot established Not established		
Engineering Measure Eye/Face Protection:	е	Use local exhaust and general ventilation as necessary to control air contaminants at or below acceptable exposure guidelines. Goggles or safety glasses with side shields. Eye wash stations are recommended in areas where this			
product is used. Skin and Body Protection: Impervious gloves and long-sleeved and long-legged clothing should be worn to prevent skin contact.					
onth and body rioted		afety shoes should be w	_		
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.					
		9 Phy	/sic	al and Chemical Prop	erties
Appearance:	Grayi	sh slurry		Autoignition:	Not applicable
Physical State:	Liquio	d paste		Odor:	Earthy
Water Solubility:	Insolu	uble		Flash Point:	Not applicable
Boiling Point/Range:	Not a	pplicable		Melting Point/Range:	: 3205°F
Specific Gravity:	3.14g	/cc		pH:	1.36
10 Stability and Reactivity					
Stability:		Product is stable under	nori	mal conditions of use, stor	rage, and transportation.
Incompatible Products: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.					
Hazardous Polymeriz	ation:	Not applicable			





Material Safety Data Sheet

Hazardous Decomposition: At temperatures above 1400°F (760°C), toxic sulfur gases are generated. These gases are toxic, oxidizing & corrosive.

	& corrosiv	e.				
		11 Toxicological Information				
Acute Toxicity	Product information: N	No data for LD50 or LC50 for oral, dermal, or inhalation routes of administration.				
Chronic Toxicity	y: Irritant to skin and n	nucous membranes. Carcinogenicity: If inhaled				
Cher	mical Name	Carginogenicity Categories				
Crystalline Silica	Crystalline Silica (Total)					
Cristobalite		IARC-1, MAK-1, NIOSH-Ca, NTP-K, TLV-A2				
Quartz		IARC-1, MAK-1, NIOSH-CA, NTP-K, TLV-A2				
Amorphous		IARC-3, NIOSH-Ca				
Aluminum Sulfa	ate					
Target Organ Ef	ffects: Lungs, eyes	, respiratory system, skin.				
		12 Ecological Information				
No information	has been developed re	egarding the ecotoxicity or environmental fate of this product.				
		13 Disposal Considerations				
Disposal of Pro	Disposal of Product: As supplied, product may be disposed of in an approved landfill, in accordance with federal, state, and					
	local regula	tions.				
		14 Transport Information				
U.S.A. DOT:						
		15 Regulatory Information				
International In	<u>ventories</u>					
TSCA:						
	(TSCA Inventory. The presence on this list does not require any legal reporting. All components listed.					
DSL:						
U.S. Federal Re	<u>gulations</u>					
SARA 313:	Not applicable					
California:	California Proposition 65: This product contains crystalline silica, chemical known to the State of California to cause cancer.					
Other States:	ther States: Crystalline silica products are not known to be regulated by states other than California; however, state and loca OSHA & EPA regulations may apply to these products. Contact your local agency if in doubt.					
WHMIS Hazard	Class: Class D - Div	vision 2 - Sub Division A:				
		16 Other Information				

MSDS Status: Replaces all prior MSDS.

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.

End of MSDS