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**NATIONAL
REFRACTORIES &
MINERALS
CORPORATION**

**MATERIAL SAFETY
DATA SHEET**

Company / Plant National Refractories & Minerals Corp. One Kaiser Plaza, Suite 650 Oakland, Ca. 94612	Issue Date Revised October 3, 1985	Identification Number NA
Trade Name (Common Name or Synonym) Part No. 872-47-50 Pails Refractory Cement	Emergency Phone Number (415) 462-1147	
Chemical Name NA	Formula NA	DOT Identification Number NA

I. INGREDIENTS

Material or Component	
Crystalline Silica (SiO ₂) as quartz	: <5%, Typical (CAS # 14808-60-7)
Sodium Silicate	: <25%, Typical (CAS # 15593-82-5)
1984-85 ACGIH TLV's : 1.4 mg/m ³ respirable quartz, 3.7 mg/m ³ total quartz.	
OSHA 1910.1000 PEL's : 1.4 mg/m ³ respirable quartz, 4.2 mg/m ³ total quartz.	
No limits established for sodium silicate.	

II. PHYSICAL DATA

Material is (At Normal Conditions): <input type="checkbox"/> Liquid <input type="checkbox"/> Solid <input type="checkbox"/> Gas <input checked="" type="checkbox"/> Other Granular, wet		Appearance and Odor Size: -20 mesh Color: grey Odor: None	
Acidity/Alkalinity pH = NA	Melting Point Boiling Point	Specific Gravity (H ₂ O = 1) Solubility in water (% by weight)	Vapor Pressure (mm Hg at 20°C) NA
	NA of NA of	1.5-2.5 <25	

III. PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection Respirator for particulates approved by NIOSH/MSHA and adequate for contaminant concentrations encountered.	Hands, Arms, and Body Gloves are recommended
Eyes and Face Safety glasses are recommended.	Other Clothing and Equipment NA

IV. EMERGENCY MEDICAL PROCEDURES

<ol style="list-style-type: none"> Skin: Wash with soap and water. Eyes: Irrigate immediately with plenty of water. Obtain medical attention if necessary.
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V. HEALTH/SAFETY INFORMATION

Health	Inhalation	Long term exposure to respirable silica above the TLV and PEL may produce pneumoconiosis in susceptible persons.		
	Ingestion	Not likely to occur.		
	Skin	May cause skin irritation on prolonged or repeated contact.		
	Eyes	May irritate or injure eyes.		
	Threshold Limit Value	See Section I		
Fire and Explosion	Flash Point	NA °F	Auto Ignition Temperature	NA °F
	<input checked="" type="checkbox"/> Not Flammable			
	Flammable Limits in Air	Lower NA %	Upper NA %	Extinguishing Media
	Unusual Fire and Explosion Hazards	NA	Extinguishing Media Not to be Used	
				NA
Reactivity	Stability	<input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable	Incompatibility (Materials to Avoid)	
	Conditions to Avoid		NA	
	Hazardous Decomposition Products		NA	

VI. ENVIRONMENTAL

Spill or leak procedures	<p>We recommend that the purchaser establish a spill prevention, control and counter measure plan. This plan should include procedures for proper storage as well as clean-up of spills or leaks. The procedures should conform to safe practices and provide for proper recovery or disposal. Depending on the quantity spilled, notification of the National Response Center (800-424-8802) may be required in case of hazardous substances. (See EPA and DOT regulations; also various state and local regulations.)</p>
Waste Disposal Method*	<p>Used or unused product should be tested to determine hazard status and disposal requirements under federal, State or local laws and regulations.</p> <p style="text-align: center;">*Disposer must comply with Federal, State and Local disposal or discharge laws.</p>

VII. ADDITIONAL INFORMATION

	<ol style="list-style-type: none"> 1. Use an approved respirator to avoid breathing dust. 2. Toxic risk may be altered by chemical or physical changes caused by conditions of use. 3. Patching Mortar is a refractory mortar.
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