

# MATERIAL SAFETY DATA SHEET

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## SECTION I. PRODUCT IDENTIFICATION AND USE

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**Product Name:** Pacocast 28LI Coarse Grain  
**Brad Code:** 0470  
**NFPA/WHMIS Rating:** 2-0-0

**Product Use:** Castable Refractory  
**Chemical Name/Synonym:** Not Applicable  
**Formula:** Not Applicable  
**Chemical Family:** Not Applicable

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## SECTION II. HAZARDOUS INGREDIENTS

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<u>Hazardous Ingredients</u>	<u>%</u>	<u>CAS No.</u>	<u>TLV TWA (mg/m<sup>3</sup>) *</u>	<u>LD<sub>50</sub></u>	<u>LC<sub>50</sub></u>
Crystalline Silica (Total):	22-32	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Above Includes; Cristobalite		14464-46-1	0.05	Not Available	Not Available
Tridymite		15468-32-3	0.05	Not Available	Not Available
Quartz		14808-60-7	0.1	Not Available	Not Available
Calcium Aluminate Cement	10-25	12042-68-1	10 total/3 respirable	Not Available	Not Available

\* Source: American Conference of Governmental Industrial Hygienists (ACGIH); TLV-TWA for Crystalline Silica are for the respirable fraction of particulate matter.

SARA Title III Section 313 Toxic Chemicals: None

Calcium Aluminate Cement is a low health risk by inhalation and should be treated as a nuisance dust.

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## SECTION III. PHYSICAL DATA

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<b>Appearance and Odor:</b>	Granular Mixture, White to Gray Color, Earthy Odor		
<b>Physical State:</b>	Solid	<b>Percent Volatile by Volume:</b>	0
<b>Odor Threshold:</b>	Not Available	<b>Boiling Point (°C):</b>	Not Applicable
<b>Specific Gravity (g/cc):</b>	1.5	<b>Freezing Point (°C):</b>	Not Applicable
<b>pH (10% Solids):</b>	8-10	<b>Vapor Density (Air=1):</b>	Not Applicable
<b>Solubility in Water:</b>	Slight	<b>Vapor Pressure (mmHg):</b>	Not Applicable
<b>Coefficient of Oil/Water Dist:</b>	Not Available	<b>Evaporation Rate:</b>	Not Applicable

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## SECTION IV. FIRE AND EXPLOSION HAZARD DATA

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<b>Flammability:</b>	Product is non-flammable and will not support combustion.		
<b>Means of Extinction:</b>	Not Applicable	<b>Autoignition Temperature (°C):</b>	Not Applicable
<b>Flashpoint (°C) and Method:</b>	Not Applicable	<b>Hazardous Combustion Products:</b>	Not Applicable
<b>Upper Flammable Limit (o/v):</b>	Not Applicable	<b>Explosion Sensitivity to Impact:</b>	Not Applicable
<b>Lower Flammable Limit (o/v):</b>	Not Applicable	<b>Explosion Sensitivity to Static Discharge:</b>	Not Applicable

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## SECTION V. REACTIVITY DATA

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<b>Stability:</b>	Stable	<b>Hazardous Decomposition Products:</b>	None
<b>Incompatibility:</b>	Concentrated Acids	<b>Hazardous Polymerization:</b>	Will Not Occur
<b>Reactivity:</b>	Hydraulic Setting		

**SECTION VI. HEALTH HAZARD/TOXICOLOGICAL DATA**

**Route of Entry:** **Skin Contact:** Yes **Skin Absorption:** No **Eye Contact:** Yes  
**Inhalation:** Yes **Ingestion:** Yes

**Effects of Acute Exposure to Product:**

**Skin:** May irritate skin.  
**Eye:** May irritate and/or abrade eyes.  
**Inhalation:** Congestion of the throat, nasal passages, and upper respiratory system.  
**Ingestion:** Unknown.

**Effects of Chronic Exposure to Product:**

**Skin:** None Known  
**Eye:** None Known  
**Inhalation:** According to 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.  
**Ingestion:** Unknown.

**Exposure Limits:** See Section II **Reproductive Toxicity:** None Known  
**Irritancy of Product:** Moderate irritation may occur. **Mutagenicity:** None Known  
**Sensitization to the Product:** None Known **Synergistic Materials:** None Known  
**Teratogenicity:** None Known  
**Carcinogenicity:** Crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1 IARC).  
**California Proposition 65:** This product contains crystalline silica, a chemical known to the state of California to cause cancer.

**SECTION VII. PREVENTIVE MEASURES, AND SPILL OR LEAK PROCEDURES****Personal Protective Equipment:**

**Gloves:** Protective Gloves **Clothing:** Long Sleeved and Legged  
**Footwear:** Safety Shoes (Not Essential) **Eye:** Goggles or Safety Glasses with Side Shields  
**Respirator:** NIOSH Approved Respirator **Other:** None Known

**Engineering Controls:** General mechanical ventilation is normally adequate.  
**Leak and Spill Procedure:** Dry material may be swept, shoveled, or vacuumed up. Return clean, dry material to original container, or dispose. Place wet material in a container for disposal.  
**Waste Disposal:** The tear out and disposal of this product may generate dust. During tear out, observe the exposure limits outlined in Section II, and the personal protection precautions in Section VII. Dispose in accordance with Federal, State and Local regulations.  
**Handling Procedures:** Follow good housekeeping and hygienic practices.  
**Storage Requirements:** Store in a dry place.  
**Special Shipping Information:** Not regulated by USA DOT, Canadian TDB Class, and PIN.

**SECTION VIII. FIRST AID MEASURES**

**Skin:** Wash with soap and water. If irritation occurs, seek medical attention.  
**Eyes:** Flush with clean water for 15 minutes. Seek medical attention.  
**Inhalation:** Remove to dust free area and fresh air. If continuing respiratory distress, seek medical attention.  
**Ingestion:** Seek medical attention immediately. Unless instructed by physician, do not induce vomiting. Product is non-toxic as supplied, but its abrasive nature may damage internal organs.

**SECTION IX. OTHER INFORMATION**

This information and recommendations set forth herein are taken from sources believed to be accurate as of the date herein; however, Resco Products, Inc. makes no warranty with respect to the accuracy of the information or the suitability of the recommendations, and assumes no liability to any user thereof.