

MATERIAL SAFETY DATA SHEET

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SECTION I. PRODUCT IDENTIFICATION AND USE

Product Name: Vibrocast 70/15SCPC
Brand Code: 0492
NFPA/WHMIS Rating: 2-0-0

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

SECTION II. HAZARDOUS INGREDIENTS

<u>Hazardous Ingredients</u>	<u>%</u>	<u>CAS No.</u>	<u>TLV TWA (mg/m³) *</u>	<u>LD₅₀</u>	<u>LC₅₀</u>
Crystalline Silica (Total):	1-6	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	1-10	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.

SECTION III. PHYSICAL DATA

Appearance and Odor:	Granular Mixture, White to Gray Color, Earthy Odor		
Physical State:	Solid	Percent Volatile by Volume:	0
Odor Threshold:	Not Available	Boiling Point (°C):	Not Applicable
Specific Gravity (g/cc):	1.7	Freezing Point (°C):	Not Applicable
pH (10% Solids):	8-10	Vapor Density (Air=1):	Not Applicable
Solubility in Water:	Slight	Vapor Pressure (mmHg):	Not Applicable
Coefficient of Oil/Water Dist:	Not Available	Evaporation Rate:	Not Applicable

SECTION IV. FIRE AND EXPLOSION HAZARD DATA

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

SECTION V. REACTIVITY DATA

Stability:	Stable	Hazardous Decomposition Products:	None
Incompatibility:	Concentrated Acids	Hazardous Polymerization:	Will Not Occur
Reactivity:	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.