



# Material Safety Data Sheet

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Supercedes Date: October 2005

## Section 1 - Product Information

Product Name: **Sparcast 97 CRF**

Product Use: Refractory Material

## Section 2 - Hazardous Ingredients

Hazardous Ingredients	CAS No.	%	ACGIH TLV	LD <sub>50</sub>	LC <sub>50</sub>
<b>Crystalline Silica (Total)</b>	N/A	< 1	N/A	N/A	N/A
Above includes: Quartz	14808-60-7		0.025 mg/m <sup>3</sup>	N/A	N/A
Cristobalite	14464-46-1		0.025 mg/m <sup>3</sup>	N/A	N/A
Tridymite	15468-32-3		0.025 mg/m <sup>3</sup>	N/A	N/A
<b>Calcium Aluminate Cement</b>	12042-68-1	< 20	10 mg/m <sup>3</sup>	N/A	N/A
<b>Aluminum Oxide</b>	1344-28-1	< 90	10 mg/m <sup>3</sup>	N/A	N/A

Threshold Limit Value for respirable dust containing crystalline silica:

OSHA PEL: 10 divided by (% Quartz + % Tridymite + % Cristobalite) in terms of mg/m<sup>3</sup>

California residents: This product contains one or more chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.

Canadian Workplace Hazardous Materials Information System (WHMIS): Crystalline silica (quartz and crystoballite) is classified as Class D2A - Materials Causing Other Toxic Effects

Hazardous Materials Identification System (HMIS): Health: \*1 Flammability: 0 Reactivity: 0

NFPA ratings: Health: 1 Fire: 0 Reactivity: 0

## Section 3 - Physical Data

Physical State: solid	Odor: Earthy Odor	Odor Threshold (ppm): N/A
Appearance: white to gray, granular mixture		Specific Gravity: 1.4 - 2.8
Vapor Density: N/A	Vapor Pressure: N/A	Evaporation Rate: N/A
Boiling Point (°C): N/A	Freezing Point (°C): N/A	pH (10% solids): 8 - 10
Coefficient of Water/Oil Distribution: N/A		

## Section 4 - Fire or Explosion Hazard Data

Flash Point: N/A	Flammable Limits: N/A	Autoignition Temperature: N/A
LEL: N/A	UEL: N/A	Hazardous Combustion Products: N/A
Extinguishing Media: As appropriate for surrounding fire		Burning Rate of Solid Material: N/A
Flammability Classification (as defined by 29 CFR 1910.1200): Not Flammable		
Fire Fighting Instructions: As appropriate for surrounding fire		
Fire Fighting Equipment: Fire fighters should wear NIOSH approved, positive pressure, self contained breathing apparatus (SCBA) and full protection clothing (bunker gear) when fighting fires.		

## Section 5 - Reactivity Data

Chemically Stable?: yes	Conditions to avoid: none	Incompatible Materials: none
Hazardous decomposition products: none		Hazardous Combustion Products: none
Hazardous Polymerization: none		Reactivity: hydraulic setting

Product Name: **Sparcast 97 CRF**

Section 6 - Toxicological Properties

**Toxicology:** Dust from this product may contain respirable crystalline silica in one or more of the following forms: cristobalite, tridymite, quartz. Repeated and prolonged (long term) inhalation of airborne dust particles containing crystalline silica may cause lung disease (silicosis). Inhalation of dust containing crystalline silica may contribute to pre-existing pulmonary diseases such as asthma and lung disorders associated with smoking. IARC studies have shown sufficient evidence from animal studies to categorize crystalline silica as a group 1 carcinogen.

**Sensitization Hazard:** None known      **Reproductive Toxicity:** None known

**Primary acute effects:**      **Skin contact:** possible irritant      **Mucous membranes:** possible irritant  
   **Eye contact:** irritant  
   **Inhalation:** possible irritant

Section 7 - Preventative Measures

**Personal Protection Equipment:**

- Eyes:** safety glasses or safety goggles In Canada, Eye protection may be required to comply with Canadian Standards Association (CSA) Standard Z94.3-M1982
- Skin:** full body clothing, gloves and head covering In Canada, protective clothing may be required to comply with ACGIH 1991 guidelines
- Respiratory:** wear a NIOSH approved particulate respirator (42 CFR 84) in compliance with OSHA Standard 29 CFR 1910.134 and 29 CFR 1926.103. In Canada, respirator must comply with Canadian Standards Association (CSA) Standard Z94.4-93

If clothing becomes contaminated, launder before next use. Use good personal hygiene practices. Wash hands thoroughly with soap and water before eating or drinking.

**Engineering measures:** Use adequate ventilation and dust collection devices to maintain airborne particulate concentrations at the minimum attainable level.

**Leak and Spill Procedure:** Follow routine housekeeping procedures. If sweeping is necessary, use a dust suppressing sweeping compound to prevent airborne dust. If vacuuming, use HEPA filtered equipment only. Personnel should wear personal protection equipment as specified above.

**Waste Disposal:** This product as supplied by SPAR, Inc. is not a hazardous waste under Federal regulations (40 CFR 261). Any use, processing, or exposure to chemical agents may alter the product from its as purchased classification and may change its disposal requirements. Under Federal regulations, it is the waste generator's responsibility to characterize the material to determine if it is a hazardous waste. Check local, state, regional, provincial regulations in order to insure compliance with all applicable disposal requirements.

**Handling Procedures:** Use adequate ventilation and dust collection devices to maintain airborne particulate concentrations at the minimum attainable level. Use personal protection equipment as specified above.

**Storage requirements:** Store in the original, unopened packaging in a dry area.

Product Name: **Sparcast 97 CRF**

Section 7 - Preventative Measures (continued)

Special shipping information: Ship in the original, unopened packaging in such a manner as to keep the product dry.

US Department of Transportation (DOT): Not regulated  
Canadian TDG Hazard Class and PIN: Not regulated  
Not classified as dangerous goods under ADR (road), RID (train),  
or IMDG (ship)

Section 8 - First Aid Measures

Inhalation: Remove affected person to dust free location. Consult physician if symptoms persists.

Ingestion: Unlikely form of exposure. However, if ingestion occurs consult a physician if any adverse medical condition occurs.

Skin contact: Wash affected area with soap and water.

Eye contact: Do not rub eyes. Flush with large amounts of water or eye wash saline solution for at least 15 minutes. Consult physician if irritation persists.

Section 9 - Preparation Information

Prepared by: SPAR, Inc. Research and Development Department

Telephone: 336-882-7294

Preparation date: January 2010

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