

# MATERIAL SAFETY DATA SHEET

Date: July 1, 2004

## SECTION I - GENERAL INFORMATION

**MANUFACTURER'S NAME:** Empire Blended Products, Inc.  
**MANUFACTURER'S ADDRESS:** 250 Hickory Lane  
Bayville, New Jersey 08721  
**EMERGENCY PHONE NUMBER:** (732) 269-4949

**PRODUCT NAME:** SHOTCRETE  
**TRADE NAME AND SYNONYMS:** Empire Blended Shotcrete  
**CHEMICAL NAME:** Portland Cement, Crystalline Silica (Quartz)  
**CHEMICAL FAMILY:** Calcium Salts, Silicon Dioxide  
**FORMULA:** CaO SiO<sub>2</sub>

## SECTION II - HAZARDOUS INGREDIENTS

<u>COMPONENT</u>	<u>CAS #</u>	<u>%</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Silica, Crystalline Quartz	14808-60-7	74%	10mg/m <sup>3</sup> Respirable 30mg/m <sup>3</sup> Total	0.1mg/m <sup>3</sup> Respirable

## SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

**BOILING POINT:** N/A  
**MELTING POINT:** N/A  
**VAPOR PRESSURE:** N/A  
**VAPOR DENSITY:** N/A  
**SOLUBILITY IN WATER:** Insoluble  
**SPECIFIC GRAVITY:** 2.90  
**PERCENT VOLATILE BY VOLUME:** 0%  
**EVAPORATION RATE:** N/A  
**APPEARANCE AND ODOR:** Fine powder and granular material, gray color, no odor

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

**FLASH POINT (METHOD USED):** Non-flammable, non-combustible or explosive  
**FLAMMABLE LIMITS:** LEL: None UEL: None  
**EXTINGUISHING MEDIA:** None

**SPECIAL FIRE FIGHTING PROCEDURES:** None

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** None



**SECTION VII - CONTROL AND PROTECTIVE MEASURES**

**RESPIRATORY PROTECTION (SPECIFIC TYPE):** NIOSH approved respirator is recommended

**PROTECTIVE GLOVES:** Recommended  
**EYE PROTECTION:** Recommended

**VENTILATION TO BE USED:**  
**LOCAL EXHAUST:** Needed in dusty conditions  
**MECHANICAL:**  
**SPECIAL:**  
**OTHER:**

**OTHER PROTECTIVE CLOTHING AND EQUIPMENT:** Boots when placing material

**HYGIENIC WORK PRACTICES:**

**SECTION VIII - PRECAUTION FOR SAFE HANDLING AND USE/LEAK PROCEDURES**

**STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED:** Clean up immediately

**WASTE DISPOSAL METHOD:** Can be salvaged for use if not contaminated or removed as common waste

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Avoid excessive contact with skin

**OTHER PRECAUTIONS AND/OR SPECIAL HAZARDS:** Dustless method, (vacuum) preferable for cleanup.