

# 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:** SURFACE BONDING CEMENT (Gray & White)  
**TRADE NAME AND SYNONYMS:** Empire Blended Surface Bonding Cement  
**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	27%	10mg/m <sup>3</sup> Respirable 30mg/m <sup>3</sup> Total	0.1mg/m <sup>3</sup> Respirable
Fibrous Glass		2%	Non established	10mg/m <sup>3</sup>

## 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, white or 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 V - REACTIVITY DATA

STABILITY: UNSTABLE:  STABLE:   
 CONDITIONS TO AVOID: None

INCOMPATIBILITY (MATERIALS TO AVOID): None

HAZARDOUS DECOMPOSITION PRODUCTS: None

HAZARDOUS POLYMERIZATION: MAY OCCUR:  WILL NOT OCCUR:   
 CONDITIONS TO AVOID: None

## SECTION VI - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: INHALATION: Yes      INGESTION: No  
 SKIN ABSORPTION: No      NON HAZARDOUS:

CARCINOGENICITY: NTP: No      OSHA: No  
 IARC MONOGRAPH: Yes      NOT LISTED:

## HEALTH HAZARDS:

**ACUTE:** Acute or rapidly developing silicosis may occur in a short period of time in heavy exposure in certain occupations such as sandblasters. Silicosis is a form of disabling pulmonary fibrosis which can be progressive and may lead to death.

**CHRONIC:** Prolonged exposure to respirable crystalline quartz may cause delayed (chronic) lung injury (silicosis).

## SIGNS AND SYMPTOMS OF EXPOSURE:

Material can dry the skin and cause alkali burns. Dust can irritate the eyes and upper respiratory system.

## MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

Pulmonary function may be reduced by inhalation of respirable crystalline silica.

## EMERGENCY FIRST AID PROCEDURES:

**EYE CONTACT:** Wash immediately with water. If irritation persists, seek medical attention.

**SKIN CONTACT:** Wash exposed areas with soap and water.

**INHALATION:** For gross inhalation remove person to fresh air, give artificial respiration as needed, seek medical attention as needed.

**INGESTION:**

**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.