

US CONCRETE PRODUCTS

IDENTITY: Hydraulic Cement

SECTION I

Manufacturer: US Concrete Products.

Emergency Number: 1-800-424-9300 CHEMTREC

Address: 16 Greenmeadow Drive Timonium, MD 21093

Telephone Number: (410) 561-8770

Date Prepared: 2/2006

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components CAS # OSHA PEL Hazard Limits %

Portland Cement 65997-15-1 5 mg/m₃ (respirable dust)

Silica Sand 14808-60-7 10mg/m₃ (respirable dust)

SiO₂+2 *

OSHA PEL (Permissible Exposure Limit): Exposure to airborne crystalline silica shall not exceed an 8-hour timeweighted limit as stated in MSHA Standards, Subpart D, Section 56.5001 on air quality specifically "Silica:

Crystalline: Quartz (respirable) PEL - TWA = 0.1 mg/m₃ and 29 CFR 1910.1000 Table Z-1-A, Air Contaminants,

specifically: Crystalline Quartz (Respirable) 10 mg/m₃ / %SiO₂+2

ACGIH TLV (Threshold Limit Value): Crystalline Quartz TLV-TWA = 0.05 mg/m₃

(Respirable Dust). See Threshold

Limit Value and Biological Exposure Indices for 1991-1992. American Conference of Governmental Industrial

Hygienists.

Other Limits Recommended: National Institute for Occupational Safety and Health (NIOSH). Recommended

standard maximum permissible concentration = 0.05 mg/m₃ (respirable free silica) as determined by a full-shift

sample up to 10-hour working day, 40-hour week.

*Respirable Dust **Total Dust

HMIS: Health = 1 Fire = 0 Reactivity = 1 Personal Protection = E

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: N/A

Specific Gravity (H₂O =1): 2.20

Vapor Pressure (mm Hg.): N/A

Melting Point: N/A

Vapor Density (AIR = 1): N/A

Evaporation Rate: N/A

Solubility in Water: 100% (Butyl Acetate = 1)

Appearance and Odor: Gray powder

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): N/A

Flammable Limits: LEL N/A

UEL N/A

Extinguishing Media: N/A

Special Fire Fighting Procedures: N/A

Unusual Fire and Explosion Hazards: N/A

SECTION

V - REACTIVITY DATA

Stability: Stable

Conditions to Avoid: Moisture, will harden

Incompatibility: Silica will dissolve in hydro-fluoric acid and produce gas.

Hazardous Decomposition or Byproducts: None

Hazardous Polymerization: Will Not Occur

Conditions to Avoid: None known

SECTION VI - HEALTH HAZARD DATA

Route(s) of Entry:

Inhalation? Yes **Skin?** No **Ingestion?** No

Health Hazards (Acute and Chronic): Cement when combined with body moisture and wet cement, especially as an ingredient in plastic (unhardened) concrete, can dry the skin and cause alkali burn. Cement dust can irritate the eyes and respiratory system. Chronic: Cement dust can cause inflammation of the lining tissue of the interior of the nose and inflammation of the cornea. Hypersensitive individuals may develop an allergic dermatitis. (Cement can contain traces of hexavalent chromium.) Alkaline nature of Portland cement may cause skin irritation.

Carcinogenicity: NTP? Silica dust is probable carcinogen from inhalation

IARC Monographs? Silica dust may be carcinogen if inhaled. Volume 68

OSHA Regulated? Not Regulated

Signs and Symptoms of Exposure: Skin irritation and mucous membrane irritation.

Medical Conditions Generally Aggravated by Exposure: Freshly mixed concrete grout or mortar may cause skin injury. Avoid contact with skin and wash exposed areas promptly with water.

Emergency and First Aid Procedures: If powder gets into eyes, rinse immediately and repeatedly with water and get prompt medical attention.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken in Case Material Is Released or Spilled: Scoop up to collection containers.

Waste Disposal Method: Mix with water.

Precautions to Be Taken in Handling and Storing: Keep containers closed. Protect from moisture.

Other Precautions: Avoid breathing dust.

SECTION VIII - CONTROL MEASURES

Respiratory Protection: If it is not possible to reduce airborne exposure levels to below the OSHA PEL with ventilation, use NIOSH- certified respirators. Particulate respirators selection can be viewed at www.cdc.gov/niosh/npptl/topics/respirators. The user of this MSDS is directed to this site for information for respirator selection and use.

Ventilation: Use sufficient local exhaust ventilation to reduce the level of respirable crystalline silica to below the OSHA PEL. See ACGIH "Industrial Ventilation A Manual of Recommended Practice" (latest edition)

Protective Gloves: Rubber Gloves

Eye Protection: Safety Glasses

Other Protective Clothing or Equipment: Long sleeved shirts and pants.

Work/Hygienic Practices: Follow practices of good industrial hygiene.

N/A = Not Applicable N/D = Not Determined N/E = Not Established