

**US Concrete**  
**Material Safety Data Sheet**  
OSHA's Hazard Communication Standard,  
29 CFR 1910.1200.

**SECTION I**

**IDENTITY:** HP Cement

U.S. Concrete Products, LLC  
16 Greenmeadow Drive, Ste 111  
Timonium, MD 21093

**Emergency Number: 800-255-3924**

**Telephone Number: 410-561-8770**

**Date Prepared: October 27, 2004**

**SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION**

<b>Hazardous Components</b>	<b>CAS #</b>	<b>OSHA PEL</b>	<b>Hazard Limits</b>
Portland Cement	65997-15-1	5 mg/m <sup>3</sup>	(respirable dust)
Silica Aggregates	14808-60-7	10 mg/m <sup>3</sup>	(respirable dust)

**SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS**

<b>Boiling Point:</b>	N/A	<b>Specific Gravity (H<sub>2</sub>O =1):</b>	3.05
<b>Vapor Pressure (mm Hg.):</b>	N/A	<b>Melting Point:</b>	N/A
<b>Vapor Density (AIR = 1):</b>	N/A	<b>Evaporation Rate:</b>	N/A
<b>Solubility in Water:</b>	100%	<b>(Butyl Acetate = 1)</b>	
<b>Appearance and Odor:</b>	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.

(OVER)

## **SECTION VI - HEALTH HAZARD DATA –continued**

**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:** NIOSH approved organic respirator in confined areas.

**Ventilation:** Mechanical (General) Good general ventilation.

**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.