

**Material Safety Data Sheet:
Unhardened Portland Cement Concrete**

Section 1: Product Information

Trade Name: Unhardened Portland Cement Concrete
Producer's Name: Standard Materials, L.L.C.
Office Address: 62505 U.S. Highway 11,
 Pearl River, Louisiana 70452
Phone/Fax Number: (985) 863-6304 / (985) 863-6303
Date Prepared: April 2006
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Section 2: Hazardous Ingredients

Chemical Names	CAS Number	Quantity (Percent)	Formula	Exposure Limits in Air	
				ACGIH TLV ⁽¹⁾	OSHA PEL ⁽²⁾
Crystalline silica (aggregate)	14808-60-7	< 0.1*	SiO ₂	0.1 mg/m ³	0.1 mg/m ³ %SiO ₂ +2
Magnesium oxide (cement)	1309-48-4	< 5 *	MgO	10 mg/m ³	15 mg/m ³
Calcium oxide (cement)	1305-78-8	< 10 *	CaO	2 mg/m ³	5 mg/m ³

⁽¹⁾ACGIH TLV: American Conference of Industrial Hygienist Threshold Limit Value (TLV) time-weighted average (TWA)

⁽²⁾OSHA PEL: Occupational Safety and Health Association Permissible Exposure Limit for an 8-hour time weighted average

*Assumes concrete mix is composed of 15% portland cement paste.

Section 3: Hazard Identification

Overview: This product contains quantities of some or all of the following materials:

1. Portland Cement (Type I/II)
2. Coarse & Fine Aggregates (Washed River Rock & Washed River Sand)
3. Admixtures (Supplied by Degussa Admixtures, Inc., a division of BASF)
4. Fly Ash (Class C)
5. Ground Granulated Blast Furnace Slag (Grade 100)
6. Water
7. Fiber Reinforcement (100% Virgin Polypropylene)

To reference the individual M.S.D.S. of each constituent substance incorporated in any mix supplied, please refer to the Mix Submittal (if applicable) for materials included. If a proprietary mix is used, please contact Standard Materials, L.L.C. for information concerning the individual components.

Potential Health Effects:

Eye contact:	If wet concrete contacts eyes, rinse immediately with clean water. If irritation persists, contact a physician.
Skin contact:	Wet concrete is extremely alkaline and will burn and/or dry skin severely. Wear rubber gloves and boots and protective clothing when handling.
Ingestion:	Not applicable.
Chronic:	Not applicable.

Section 4: First Aid Measures

Eye contact:	Gently flush eyes with clean water. Seek medical aid if irritation persists or develops.
Skin contact:	Wash with soap and water. Seek medical aid if irritation persists or develops.
Inhalation:	N/A
Chronic:	N/A

Section 5: Fire & Explosion:

Substance will not burn or explode under any conditions. It is non-flammable and non-explosive.

Section 6: Accidental Release Measures/Spill Response Procedures:

Keep concrete and concrete rinse water away from streams, lakes, and storm drains by placing earthen beams across runoff pathway. Wait until concrete is sufficiently hardened to clean area.

Preparing Waste for Disposal:

No special procedures required. Dispose of according to local, state and federal regulations. Not classified as a hazardous waste by the Resource Conservation and Recovery Act.

Section 7: Exposure Controls/Personal Protection/Respiratory Protection:

Gloves: Waterproof gloves should be used.

Footwear: Waterproof footwear (boots) higher than the depth of wet concrete being placed should be used.

Other Clothing: Long-sleeved shirts and full length pants should be worn while working in or around plastic (unhardened) concrete. If clothing becomes saturated with cementitious paste, clothing should be removed and replaced with uncontaminated clothing before returning to work. Contaminated skin must be thoroughly cleaned before replacing clothing.

Eyewear: Care must be taken to avoid contact of wet concrete or concrete paste with eyes. Protective eyewear should include side shields to prevent accidental splashing of material into eyes. The use of a full-face shield while placing concrete is ideal.

Work Practices: Avoid contact with skin.

Hygiene Practices: Wash exposed skin with soap and water.

Section 8: Physical Properties

Vapor density (air=1): None

Melting point: N/A

Specific gravity: Approximately 2.5

Boiling point: N/A

Solubility in water: Insoluble once hardened.

Evaporation rate: None

Vapor pressure: None

Appearance and odor: Grey mixture containing aggregates and cement paste.

Disclaimer:

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