

**Materials Packaging Corporation
MSDS – MATERIAL SAFETY DATA SHEET**

SECTION 1 – Chemical Product and Company Identification		
Product Names/Trade Names: Concrete Mix; Core Fill Grout, Coarse; Core Fill Grout, Fine; Fast Setting Cement; Fiber Reinforced Concrete; Light Weight Concrete; Rip Rap; Sand Mix		
Synonyms/Common Names: Concrete Mixes		
Manufacturer/Supplier Name & Address	Emergency Phone No.	Date Prepared
Materials Packaging Corporation 10816 Executive Center Drive, Suite 100 Little Rock, AR 72211	888-289-1117	April 2005

SECTION 2 – Hazardous Ingredients/Identity Information			
<u>Ingredient</u>	<u>CAS #</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Portland Cement (Total Dust)	65997-15-1	15 mg/m ³	10 mg/m ³
Portland Cement (Respirable Dust)	65997-15-1	5 mg/m ³	None Established
Crystalline Silica (quartz; Respirable)	14808-60-7	10±%SiO ₂ + 2	0.05 mg/m ³

Note: Contains greater than 1% of components designated as "hazardous." Contains greater than 0.1% of crystalline silica (quartz).

SECTION 3 – Physical/Chemical Characteristics			
Boiling Point:	Not Applicable	Specific Gravity (H ₂ O = 1):	2.7 – 3.0
Vapor Pressure:	N/A		
Evaporation Rate:	N/A		
Appearance/Odor:	Gray, granular; no or low odor		

Section 4 – Fire and Explosion Data					
Flash Point and Method:	Not Applicable	Special Fire Fighting Procedures:	N/A		
Autoignition Temperature:	N/A	Unusual Fire and Explosion Hazards:	N/A		
Flammability Limits in Air:	<table border="1"> <tr> <td><u>LEL:</u> N/A</td> <td><u>UEL:</u> N/A</td> </tr> </table>	<u>LEL:</u> N/A	<u>UEL:</u> N/A	Hazardous Decomposition Products:	None from product; if packaging material burns, it may emit carbon monoxide and other byproducts of combustion.
<u>LEL:</u> N/A	<u>UEL:</u> N/A				
Extinguishing Media:	Use extinguishing agent suitable for surrounding fire and structures				

Section 5 – Reactivity Data	
Stability:	The product is stable.
Incompatibility:	The product is incompatible with strong acids. Contact with acids may produce a violent, exothermic reaction and may evolve toxic gases or vapors, depending on the acid involved.
Hazardous Polymerization:	Will not occur.
Conditions to avoid:	Contact with acids. Keep dry; water causes to harden.

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SECTION 6 – Health Hazard Information	
Acute Effects:	Cement can dry the skin and cause alkali burns ranging from mild to severe; burns can be up to third degree with permanent tissue destruction. Burns can occur with little or no warning signs. DO NOT ALLOW WET PORTLAND CEMENT TO GET INSIDE BOOTS, SHOES, OR GLOVES AND DO NOT ALLOW WET, SATURATED CLOTHING TO REMAIN AGAINST THE SKIN. Cement dust can leave unpleasant deposits in the nose. Cement dust is irritating to the eyes and moist mucous membranes.
Chronic Effects:	Repeated exposure to portland cement may result in drying of the skin and may lead to thickening, cracking, or fissuring of the skin. Hypersensitive individuals may develop an allergic dermatitis (possibly due to trace amounts of hexavalent chromium at less than 0.005%). This reaction may appear in several forms including a mild rash to severe skin ulcers. Persons already sensitized may react to their first contact with the product. Other persons may experience this effect after years of exposure to portland cement products. Chronic over-exposure to crystalline silica (quartz) can result in silicosis; silicosis increases the risk of tuberculosis. Crystalline silica inhaled from occupational sources is classified as carcinogenic to humans. Other non-cancer health effects from silica have been reported.
Carcinogenicity: Crystalline Silica: Portland Cement:	IARC: Yes NTP: Yes OSHA: No IARC: No NTP: No OSHA: No
Emergency and First Aid Procedures:	Eyes: Immediately flush eyes with large quantities of water. Contact Physician. Skin: Wash from skin with clean water and a pH neutral soap. Inhalation: Remove to fresh air. Seek medical attention if coughing and other symptoms do not subside. Inhalation of gross amounts of portland cement requires immediate medical attention. Ingestion: Consult a physician immediately. Do not induce vomiting. If conscious, have the victim drink plenty of water.

SECTION 7 – Precautions for Safe Handling and Use	
Spill or Release:	Pick up and place in closed container. Avoid generating dust. Wear protective equipment specified below.
Waste Disposal Methods:	Dispose of waste material in accordance with Federal, State and local requirements. Portland cement is not a hazardous waste as defined by the Resource Conservation and Recovery Act (40 CFR 261).
Handling and Storing:	Keep product dry. High humidity or moisture will cause product to harden prematurely.

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SECTION 8 – Control Measures/ Personal Protective Equipment	
Respiratory Protection:	Use NIOSH/MSHA-approved (under 30 CFR 11) or NIOSH-approved (under 42 CFR 84) respirators in poorly ventilated areas, if an applicable exposure limit is exceeded, or when dust causes discomfort or irritation.
Ventilation:	Avoid actions that cause dust to become airborne. Use local or general ventilation to control exposures below applicable exposure limits.
Eye Protection:	When engaged in activities where portland cement dust or wet portland cement or concrete could contact the eye, wear goggles or safety glasses with side shields. In extremely dusty environments and unpredictable environments, wear unvented or indirectly vented goggles to avoid eye irritation or injury. Contact lenses should not be worn when working with portland cement or wet portland cement products.
Skin Protection:	Do not rely on barrier creams; barrier creams should not be used in place of gloves. Use impervious, abrasion- and alkali-resistant gloves, boots and protective clothing to protect the skin from prolonged contact with wet portland cement in plastic concrete, mortar or slurries.

SECTION 9 – Other Regulatory Information	
Status under USDOL-OSHA Hazard Communication Standard (29 CFR 1910.1200)	Portland cement is considered a “hazardous chemical” under this regulation and should be a part of any Hazard Communication Program.
Status under CERCLA / Superfund 40 CFR 117 and 302	Not listed.
Status under SARA (Title III), Sections 311 and 312	Portland cement qualifies as a “hazardous substance” with delayed health effects.
Status under SARA (Title III), Section 313	This product may contain constituents listed under SARA (Title III) Section 313, but not in amounts requiring supplier notification under 40 CFR Part 372 Subpart C.
Status under TSCA (as of May 1997)	Portland cement and some of the substances in portland cement are on the TSCA inventory list.
Status under the Federal Hazardous Substances Act	Portland cement is a “hazardous substance” subject to statutes promulgated under the subject act.
Status under California Proposition 65	This product contains crystalline silica and chemicals (trace metals) known to the State of California to cause cancer, birth defects or other reproductive harm. California law requires the above warning in the absence of definitive testing to prove the defined risks do not exist.

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Section 10 – Other Important Information

These products should only be used by knowledgeable persons. A key to using the products safely requires the user to recognize that portland cement reacts with water, and that some of the intermediate products of this reaction (that is, those present while portland cement is “setting”) pose a far more severe hazard than does portland cement itself.

While the information provided in this material safety data sheet is thought to provide a useful summary of the hazards of portland cement as it is commonly used, the sheet cannot anticipate and provide all the information that might be needed in every situation. Inexperienced product users should obtain training before using this product.

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