

MATERIAL SAFETY DATA SHEET

COLOR HARDENER

SECTION 01: PRODUCT IDENTIFICATION

Product Identifier:	Cement Mix
Product Use:	Concrete Color
Manufacturer's Name:	Concretech Inc., #106, 2567- 192 Street, Surrey, BC, V3S 3X1, Canada
Supplier's Name	Concretech Inc., #106, 2567- 192 Street, Surrey, BC, V3S 3X1, Canada
Preparation Date of MSDS:	May 26 th , 2010
Revision Date of MSDS:	April 11 th , 2011
MSDS Prepared By:	Farhad Kazemian
Phone Number of Preparer:	1 604 210 1147
Emergency Phone Number	1 888 503 6780

SECTION 02: HAZARDOUS INGREDIENTS

Ingredients:	%	CAS#	OSHA PEL	ACGIH TLV	Comments
Silica Sand, crystalline Quartz	50-55	14808-60-7	10 mg/m3	0.1 mg/m3	(Respirable dust only)
Portland Cement	24-35	65997-15-1	15 mg total dust/m3	10 mg total dust/m3	
Calcium Carbonate	5-10	1317-65-3	5 mg/m3	10 mg/m3	(Respirable dust only)
Mixed Oxides	3-5	Proprietary	NA	NA	NA

SECTION 03: HAZARDOUS IDENTIFICATION

Route of Entry:	Routes of entry during normal usage: Inhalation= Yes, Skin= Yes, Ingestion= No, Eye Contact= Yes
Skin Contact:	No adverse effects expected. Wash with soap and water.
Skin Absorption:	Not Established
Eye Contact:	Eye contact by larger amounts of powder or splashes of wet portland cement may cause effects ranging from moderate eye irritation to chemical burns and blindness.
Inhalation:	Prolonged exposure to repairable free crystalline silica may aggravate other lung conditions. It may also cause delayed lung injury including silicosis, a disabling and potentially fatal lung disease. Exposure to Portland cement may cause irritation to the mucous membranes of the nose, throat, and upper respiratory system.
Ingestion:	Large doses may produce gastrointestinal disturbances.
Emergency Overview:	NA
WHMIS Symbols:	NA
Potential Health Effects:	Dry skin, dermatitis, dry cough, irritated eyes from dust or any other potential adverse condition related to the alkaline nature of wet cement.

SECTION 04: FIRST AID MEASURES

Skin Contact:	Avoid contact with skin. Wash with soap and water immediately.
Eye Contact:	Flush with large quantities of water for 15 minutes, and seek medical attention if irritation persists.
Inhalation:	Remove to fresh air if swallowed concentrations of any of the hazardous ingredients are exceeded. If not breathing, trained personnel should initiate artificial respirations and immediate medical attention should be obtained.
Ingestion:	Do not induce vomiting. If conscious, have the victim drink plenty of water and call a physician immediately.

SECTION 05: FIRE FIGHTING MEASURES

Flammable (Yes / No)	No
Yes	NA

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Means of Extinction	NA
Flash Point (°C / Method)	NA
Upper Flammable Limit (% by Volume)	NA
Lower Flammable Limit (% by Volume)	NA
Autoignation Temperature (°C)	NA
Explosion Data- Sensitivity to Impact	NA
Explosion Data- Sensitivity to Static Discharge	NA
Hazardous combustion Products	Carbon monoxide, carbon dioxide, oxides of nitrogen, and other unidentified organic compounds.
Special Fire Fighting Procedures	Wear standard fire fighting gear with self-contained breathing apparatus.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures	Ventilate area. Keep spectators away. Wear appropriate protection equipment. Sweep up and containerize for reclamation or disposal. Do not allow material to enter drainer waterways.
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SECTION 07: HANDLING AND STORAGE

Handling Procedures and Equipment	Avoid prolonged or repeated inhalation of dust or spray mists. Avoid all skin contact.
Storage requirements	Keep containers closed. Store in a cool, well-ventilated area away from strong acids.

SECTION 08: EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limit	ACGIH TLV	See section 2
	OSHA PEL	See section 2
	Other	NA
Engineering Controls	General	General ventilation is required during normal use. Maintain eye Wash fountain and quick-drench facilities in the work area.
	Local Exhaust	Use in a well-ventilated area.
	Other	NA
Personal Protective Equipment	Gloves	Impervious (nitrile rubber or better).
	Respirator	A canister type respirator may be necessary if excessive dust is generated. A NIOSH approved organic vapor mask with a dust/mist pre-filter is recommended.
	Eye	Wear safety glasses.
	Footwear	
	Clothing	Long sleeved cover-alls, rubber glove, goggles and safety shoes are recommended.
	Other	NA
Hazard Index	HMIS Rating	Health=1, Fire= 0, Reactivity= 1, Protection – E = chronic effect

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	powder
Odor and Appearance	General cement odor, different colors
Odor Threshold (ppm)	NA
Specific Gravity	1.9 to 2.2 (H ₂ O= 1)

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Vapor Density (air = 1)	NA
Vapor Pressure (mmHg)	NA
Evaporation Rate	NA
Flammability Class	NA
Boiling Point °C	NA
Freezing Point °C	NA
Volatile % By Weight	NA
PH	11.0 to 13.0
Coefficient of Water / Oil Distribution	NA
Solubility in Water	Partially Soluble

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability	Stable
Incompatibility With Other Substances	Strong oxidizing agents, strong acids, and strong bases.
Reactivity	Reacts with strong acids and liberates carbon Dioxide. Silica will dissolve in hydrofluoric acid to give silicon tetra fluoride, a corrosive gas.
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide, calcium hydroxide.

SECTION 11: TOXICOLOGICAL INFORMATION

Effects on Acute Exposure	Inhalation or contact can cause irritation to eyes, skin, nose or throat to sensitive people.
Effects on Chronic Exposure	Repeated (long term inhalation of dust may result in silicosis.
Irritancy of Product	Allergies, skin and respiratory disorders.
Skin Sensitization	Product sensitivity
Respiratory sensitization	No adverse effects expected. Wash with soap and water.
Carcinogenicity	Crystalline silica is a suspected cancer agent under IARC Monographs Level 2A Grouping.
Other Toxicity Information	OSHA= No
IARC (1, A2 or 2B)	No
ACGIH (A1, A2 or A3)	See section 2
Reproductive Toxicity	For California (Proposition 65): This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive toxicity.
Teratogenicity	Not Established
Embryotoxicity	Not Established
Mutagenicity	Not Established
Name of Synergistic Products / Effects	NA

SECTION 12: ECOLOGICAL INFORMATION

Aquatic Toxicity	NA
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SECTION 13: DISPOSABLE CONSIDERATION

Waste Disposal	Dispose in accordance with current federal, state, provincial and local regulations.
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SECTION 14: TRANSPORT INFORMATION

Special Shipping Information	NA
PIN	Not Regulated

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TDG	Not Regulated
DOT	Not Regulated
IMO	Not Regulated
ICAO	NA
ERAP	NA

SECTION 15: REGULATORY INFORMATION

WHMIS Classification	NA
OSHA	See section 2
Other	For California (Proposition 65): This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive toxicity.
TSCA	All ingredients are listed within or exempted from US TSCA.
DSL / TOSCA	All ingredients are listed within or exempted from Canadian DSL.

SECTION 16: OTHER INFORMATION

Regulatory Information	Skin eye and respiratory irritant. Contains known or probable human carcinogen. Harmful or fatal if swallowed.
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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. It is provided solely for the customer's consideration, and verification. Hereby specifically claims. It shall not be held liable for any damage resulting from handling or from contact with the above products.