

SDS READY MIX CONCRETE

Product Name: Portland Cement Concrete (Ready Mix Concrete)

Supplier:

Name: Hope Ready Mix Ltd.
Address: 999-5 ave, Hope BC
Telephone: (604) 869-5322

Product Identifier

Mixture of cementitious material, aggregates and water.

Note: This MSDS covers many products. Individual composition of hazardous constituents will vary.

WHMIS Classification: Class D2, E

Emergency telephone number

Canutec: (613) 996-6666

2. INFORMATION ON COMPONENTS

<u>Component Name</u>	<u>%</u>	<u>CAS No.</u>
Portland Cement	10-20	65997-15-1
Quartz (SiO ₂)	3-7	14808-60-7
Portlandite (CA(OH) ₂)	2-4	1305-62-0

<u>Component Name</u>	<u>EXPOSURE LIMITS</u>	
	<u>OSHA PEL TWA</u>	<u>OCGIH TLV TWA</u>
Portland Cement	50mppcf	10m ³ /m ³ total dust
Quartz		0.1mg/m ³
Portlandite		5mg/m ³

3. HAZARD IDENTIFICATION

Emergency Overview

Odourless, grey, plastic, flowable and granular

Potential Health Effects

Plastic Concrete

Toxicological Properties: Plastic concrete has an alkalinity level of pH12 to pH13 which can cause skin and eye irritation.

3. Hazard Identification cont'd

INHALATION (acute): Breathing dust may cause nose, throat or lung irritation and choking. The described effect depends on the degree of exposure.

INHALATION (chronic): Prolonged or repeated exposure may cause lung injury including alliosis. This product may contain crystalline silica. Crystalline silica has been classified by IARC as a known human carcinogen. Some human studies indicate potential for lung cancer from crystalline silica exposure. Long term exposures which result in silicosis may result in additional health effects. Risk of injury depends on duration and level of exposure.

EYE CONTACT (acute/chronic): May cause eye irritation, burns and damage to cornea.

SKIN CONTACT (acute/chronic): May cause dry skin, redness, discomfort, irritation or burns. May produce allergic reaction potentially associated with hexavalent chromium. Thickening of the skin (scleroderma) may be associated with exposure to high levels of crystalline silica.

INGESTION (acute/chronic): Ingestion of large amounts may cause intestinal distress and irritation.

HARDENED OR "SET" CONCRETE

Toxicological Properties: The hazardous ingredients when in contact with water, produce calcium hydroxide with an alkalinity level of pH12 to pH13. This level of alkalinity can cause skin and eye irritation.

Route of Entry: Skin contact, eye contact, inhalation, ingestion.

Effects of Acute Exposure: Cement and wet cement mixtures can dry skin, cause alkali burns and irritate the eyes and the upper respiratory tract. Ingestion can cause inflammation of the throat.

Effects of Chronic Exposure: Cement dust can cause inflammation of the tissue lining, the interior of the nose and the cornea (white) of the eye. Hypersensitive people may develop allergic dermatitis.

<p>4. REQUIRED TRANSPORT INFORMATION</p>	<p>11. MSDS PREPARATION AND TOXOLOGICAL INFORMATION</p>																																																
<p>Wash exposed areas of the body with soap and water, consult a physician in cases of severe exposure. In case of accidental ingestion, drink two or three glasses of milk, call a physician and do not induce vomiting.</p>	<p>For detailed toxicological information contact: Technical Services Department Lafarge Construction Materials 7880 Keele Street, 5th Floor Concord, Ontario L4K 4G7 (905) 738-7070</p>																																																
<p>5. FIREFIGHTING MEASURES</p>	<p>12. ECOLOGICAL INFORMATION</p>																																																
<p>Not applicable.</p>	<p>For detailed ecological information: See Section 11 above.</p>																																																
<p>6. ACCIDENTAL RELEASE MEASURES</p>	<p>13. DISPOSAL CONSIDERATIONS</p>																																																
<p>Leak and Spill Procedure: Sweep and shovel into waste disposal containers. Flush with water hose for final cleanup of floors, walkway, etc. Waste Disposal: At approved landfill or waste disposal sites in accordance with local regulations.</p>	<p>Dispose in landfill in accordance with all applicable regulations. Any disposal practice must be in compliance with local, provincial, state and federal laws and regulations. Contact local environmental agency for specific rules.</p>																																																
<p>7. HANDLING AND STORAGE</p>	<p>14. REQUIRED TRANSPORT INFORMATION</p>																																																
<p>General: Avoid accidental release. Storage Requirements: Not applicable Special Shipping Info: Not applicable</p>	<p>Not a hazardous material for DOT or MOT shipping.</p>																																																
<p>8. EXPOSURE CONTROL & PERSONAL PROTECTION</p>	<p>15. REQUIRED TRANSPORT INFORMATION</p>																																																
<p>Engineering Controls: Provide ventilation when sawing or using other demolition techniques to maintain dust concentrations below exposure limits. Personal Equipment: Use gloves, boots and clothing to prevent skin contact. Wear safety glasses or goggles to prevent contact with eyes. Wear an approved respirator if exposed to dust from hardened concrete when sawing or using other demolition methods.</p>	<p>WHMIS Information This product contains substances considered to be hazardous by Health Canada and is a controlled product. Consult local authorities for acceptable exposure limits.</p>																																																
<p>9. PHYSICAL & CHEMICAL PROPERTIES</p>	<p>16. OTHER INFORMATION</p>																																																
<table border="0"> <tr> <td>Physical State:</td> <td>Plastic until it becomes solid upon setting</td> </tr> <tr> <td>Odour</td> <td>Threshold: None</td> </tr> <tr> <td>Vapor Pressure:</td> <td>Not applicable</td> </tr> <tr> <td>Vapor Density:</td> <td>Not applicable</td> </tr> <tr> <td>Specific Gravity:</td> <td>Normal range 1.5-2.9</td> </tr> <tr> <td>Solubility in Water:</td> <td>Slight (0.1%)</td> </tr> <tr> <td>Evaporation Rate:</td> <td>Not applicable</td> </tr> <tr> <td>pH (in water):</td> <td>pH12 - pH13</td> </tr> <tr> <td>Boiling Point:</td> <td>Not applicable</td> </tr> <tr> <td>Freezing Point:</td> <td>(0°)</td> </tr> <tr> <td>Viscosity:</td> <td></td> </tr> </table>	Physical State:	Plastic until it becomes solid upon setting	Odour	Threshold: None	Vapor Pressure:	Not applicable	Vapor Density:	Not applicable	Specific Gravity:	Normal range 1.5-2.9	Solubility in Water:	Slight (0.1%)	Evaporation Rate:	Not applicable	pH (in water):	pH12 - pH13	Boiling Point:	Not applicable	Freezing Point:	(0°)	Viscosity:		<p>Abbreviations:</p> <table border="0"> <tr> <td>CAS No</td> <td>Chemical Abstract Service Number</td> </tr> <tr> <td>OSHA</td> <td>Occupational Safety and Health Administration</td> </tr> <tr> <td>PEL</td> <td>Permissible Exposure Limit</td> </tr> <tr> <td>TLV</td> <td>Threshold Limit Value</td> </tr> <tr> <td>TWA</td> <td>Time Weighed Average</td> </tr> <tr> <td>CL</td> <td>Ceiling Limit</td> </tr> <tr> <td>mg/m3</td> <td>milligrams per cubic meter</td> </tr> <tr> <td>NIOSH</td> <td>National Institute for Occupational Safety and Health</td> </tr> <tr> <td>pH</td> <td>negative log of hydrogen ion</td> </tr> <tr> <td>></td> <td>greater than</td> </tr> <tr> <td>DOT</td> <td>U.S. Department of Transport</td> </tr> <tr> <td>MOT</td> <td>Ministry of Transport</td> </tr> <tr> <td>WHMIS</td> <td>Workplace Hazardous Materials Information System</td> </tr> </table>	CAS No	Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration	PEL	Permissible Exposure Limit	TLV	Threshold Limit Value	TWA	Time Weighed Average	CL	Ceiling Limit	mg/m3	milligrams per cubic meter	NIOSH	National Institute for Occupational Safety and Health	pH	negative log of hydrogen ion	>	greater than	DOT	U.S. Department of Transport	MOT	Ministry of Transport	WHMIS	Workplace Hazardous Materials Information System
Physical State:	Plastic until it becomes solid upon setting																																																
Odour	Threshold: None																																																
Vapor Pressure:	Not applicable																																																
Vapor Density:	Not applicable																																																
Specific Gravity:	Normal range 1.5-2.9																																																
Solubility in Water:	Slight (0.1%)																																																
Evaporation Rate:	Not applicable																																																
pH (in water):	pH12 - pH13																																																
Boiling Point:	Not applicable																																																
Freezing Point:	(0°)																																																
Viscosity:																																																	
CAS No	Chemical Abstract Service Number																																																
OSHA	Occupational Safety and Health Administration																																																
PEL	Permissible Exposure Limit																																																
TLV	Threshold Limit Value																																																
TWA	Time Weighed Average																																																
CL	Ceiling Limit																																																
mg/m3	milligrams per cubic meter																																																
NIOSH	National Institute for Occupational Safety and Health																																																
pH	negative log of hydrogen ion																																																
>	greater than																																																
DOT	U.S. Department of Transport																																																
MOT	Ministry of Transport																																																
WHMIS	Workplace Hazardous Materials Information System																																																
<p>10. STABILITY AND REACTIVITY</p>	<p>Information in this MSDS is believed to be current and accurate at the time provided. It is the user's obligation to determine the conditions of safe use of this product.</p>																																																
<p>Not applicable</p>																																																	