

## **MATERIAL SAFETY DATA SHEET** PORTLAND CEMENT CONCRETE

SECTION 1 - PRO	DUCT AND MANUFACTURER INFORMATION
Product name:	Portland cement concrete
Other commercial names:	Ready-mix concrete, pre-mixed concrete, cement concrete, concrete.
	Unibéton, Béton Miroc, Béton Mercier, Béton 640, divisions of Ciment Québec Inc. 300 rue Saulnier
Manufacturer:	Laval, Quebec, Canada H7M 3T3  Phone: (450) 629-0100  Fax: (450) 629-2175
Components:	The concrete is a mix of Portland cement, water, and inactive ingredients (sand, gravel, or crushed stone) and is used as a building material. It often contains chemical admixtures but only in concentrations of less than 1%. The other additives (fly ash, granulated slag, etc.) have no effect on the risks associated with using concrete. The concrete contains cement that has been made from materials dug out of the ground and processed by means of energy from fuels. Traces of chemical substances may be detected during chemical analysis. For example, the cement may contain traces of magnesium oxide, aluminum oxide, iron trioxide, potassium sodium sulfate compounds, chromium compounds, nickel compounds, and other compounds.
Uses:	Building materials.
WHMIS classi	fication and pictograms Personal protective equipment

Class D2A

Very toxic material (Chronic toxicity; Carcinogenicity)



Class E Corrrosive material













## SECTION 2 - INFORMATION ON PREPARATION OF MATERIAL SAFETY DATA SHEET

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Preparation date: September 4, 2014

Review date: -----

Name	CAS#	% (p/p)	Lethal dose (LD <sub>50</sub> ) Lethal concentration (LC <sub>50</sub> )
Amorphous silica*	7631-86-9	30 - 60	
Portland cement	65997-15-1	10 - 30	
Calcium oxide	1305-78-8	10 - 30	
Aluminum oxide	1344-28-1	5 - 10	
Iron trioxide	1309-37-1	5 - 10	
Magnesium oxide	1309-48-4	1 - 5	
Sodium oxide	1313-59-3	1 - 5	
Potassium monoxide	12136-45-7	1 - 5	
Titanium dioxide	13463-67-7	0.1 - 1	Oral, rat: LD 50 > 10,000 mg/kg Skin, rabbit: LD 50 > 10,000 mg/kg

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SECTION 4 – PHYSICAL AND CHEMICAL PROPERTIES				
Physical state, appearance, and colour:	Solid grey material (initially plastic and hardens through the action of hydration).	Boiling point:	Not applicable	
Odour:	Odourless	Vapour pressure:	Data unavailable	
Odour detection threshold:	Data unavailable	Evaporation rate:	Data unavailable	
Density (H <sub>2</sub> O=1.0):	1.5 to 2.9	Solubility in water:	0.1 %	
pH (in water):	12-13	Vapour density:	Data unavailable	
Flash point:	Not applicable	Water/oil distribution		
Freezing point:	Water in material freezes at 0°C	coefficient:	Data unavailable	

SECTION 5 – FIRE AND EXPLOSION RISKS				
Flammability limit:	Non-flammable and non- combustible	Flash point:	Not applicable	
Self-ignition temperature:	Not applicable	Explosion hazard:	Not applicable	
Hazardous combustion products:	None	Fire danger:	Non-flammable and non-combustible	
Upper/lower flammable or explosive limits:	Not applicable	Explosion data – sensitivity to mechanical impact:	Not applicable	
General precautions:	Isolate and contain the fire zone. Stay upwind from the fire. Stop leaks only if prudent to do so. Move the containers far from the fire if there is no risk. Fight the fires from a safe distance and a protected location. Use water spray to cool containers and parts of the building frame that are exposed to the flames. Use water spray to disperse the vapours because the fire may restart. Never spray a jet of water directly on the fire because you may spread the fire over a larger surface. Act cautiously and check to see whether the product is burning before you go into the fire zone.			
How to fight fires:	This product is non-combustible self-contained breathing apparat			
Inappropriate extinguishing agents:	Water is not recommended fo containers that are exposed to the		be generously used to cool	

SECTION 6 - REACTIVITY		
Stability/reactivity:	The product is stable. It turns solid in the presence of water or humidity.	
Decomposition products:	Does not decompose on its own. May produce calcium silicate hydrates and calcium hydroxide if in contact with water. Can dissolve in hydrofluoric acid and produce gaseous, corrosive silicon tetrafluoride. The silicates react with oxidants like fluorine, chlorine trifluoride, and oxygen difluoride.	
Incompatible materials and conditions to avoid:	The concrete is incompatible with acids, ammonium and aluminum salts, phosphorus pentachloride, xenon hexafluoride, selenium oxyfluoride, carbon dioxide, phosphorus pentoxide, halogens, metal halides, and strong oxidizing agents like fluorine, chlorine trifluoride, boron trifluoride, manganese trifluoride, and oxygen difluoride.	

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					PORTLAND CEMEN	II CONCRETE	
SECTION 7 – TOXICOLOGICAL PROPERTIES							
Exposure pathways:	Skin contact, eye contact, inhalation, and ingestion.						
General information:	Concrete products do not release dust into the air as long as they are in an intact state, but dust can be produced during such operations as cutting, drilling, sanding, or any other operation on the product. When wet, concrete is caustic and may cause serious, potentially irreversible injuries to body tissues (skin, eyes, respiratory and digestive tracts).						
	Skin: May dry the skin, cause irritations, burns, chafing, and cracks, as well a						
	_	allergic reaction in the presence of hexavalent chromium.					
Effects of acute	<ul><li>Eyes: Irritation, chemical burns, and loss of sight in the case of contact with large amounts.</li><li>Inhalation: Irritation of upper respiratory tracts. It may cause inflammation of the inne</li></ul>				ontact with large		
exposure:					tion of the inner		
exposure.		lining of t		p. a.c.,a.	oto: It may be use initiation		
	Ingestion:	Ingestion	of small am	nounts is no	ot harmful. However, large a	mounts may be	
			y and cause b				
	<u>Skin</u> :				e hypersensitive to chromium		
Effects of chronic					mild rash and ends in a serio		
exposure:	Inhalation:				nged exposure to respirable		
		may agg		ders of the	respiratory system, including	the lungs, and	
	Compon		# CAS	Туре	Value	Remarks	
	Amorphou	ıs silica	7631-86-9	Not applicable	Not applicable	Not applicable	
	Crystalline silica, quartz		14808-60-7	TAEV	0.1 mg/m³	Td, C2, ME	
	Portland cement						
	Portland of	ement	65997-15-1	TAEV	5 mg/m³ respirable dust 10 mg/m³ total dust	Rd, Note 1 Td, Note 1	
	Calcium	oxide	1305-78-8	TAEV	10 mg/m³ total dust 2 mg/m³	Td, Note 1 Not applicable	
	Calcium Aluminum	oxide n oxide	1305-78-8 1344-28-1	TAEV TAEV	10 mg/m³ total dust 2 mg/m³ 10 mg/m³ expressed as Al	Td, Note 1  Not applicable  Td	
Evnosura limite	Calcium Aluminum Iron trio	oxide n oxide oxide	1305-78-8 1344-28-1 1309-37-1	TAEV TAEV TAEV	10 mg/m³ total dust 2 mg/m³ 10 mg/m³ expressed as Al 5 mg/m³	Td, Note 1  Not applicable  Td  Expressed as Fe	
Exposure limits: (ROHS <sup>1</sup> )	Calcium Aluminum Iron trio Magnesiur	oxide n oxide oxide m oxide	1305-78-8 1344-28-1 1309-37-1 1309-48-4	TAEV TAEV TAEV TAEV	10 mg/m³ total dust 2 mg/m³ 10 mg/m³ expressed as Al 5 mg/m³ 10 mg/m³	Td, Note 1  Not applicable  Td  Expressed as Fe  Not applicable	
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	Calcium Aluminum Iron trio Magnesiur Sodium	oxide n oxide xide n oxide oxide oxide oxide	1305-78-8 1344-28-1 1309-37-1 1309-48-4 1313-59-3	TAEV TAEV TAEV TAEV Not applicable	10 mg/m³ total dust 2 mg/m³ 10 mg/m³ expressed as Al 5 mg/m³ 10 mg/m³ Not applicable Not applicable 10 mg/m³	Td, Note 1  Not applicable  Td  Expressed as Fe  Not applicable  Not applicable  Not applicable  Td, Note 1	
	Calcium Aluminum Iron trio Magnesium Sodium Potassium n Titanium o TAEV : Time-	oxide n oxide xide n oxide oxide oxide nonoxide dioxide weighted av	1305-78-8 1344-28-1 1309-37-1 1309-48-4 1313-59-3 12136-45-7 13463-67-7 verage exposur	TAEV TAEV TAEV TAEV Not applicable Not applicable TAEV e value.	10 mg/m³ total dust 2 mg/m³ 10 mg/m³ expressed as Al 5 mg/m³ 10 mg/m³ Not applicable Not applicable 10 mg/m³ C2: Carcinogenic effect sus	Td, Note 1  Not applicable  Td  Expressed as Fe  Not applicable  Not applicable  Not applicable  Td, Note 1	
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<sup>&</sup>lt;sup>1</sup> **ROHS**: Regulation respecting occupational health and safety (Quebec)

<sup>&</sup>lt;sup>2</sup> IARC: International Agency for Research on Cancer

<sup>&</sup>lt;sup>3</sup> **ACGIH**: American Conference of Industrial Hygienists



SECTION 7 – TOXICOLOGICAL PROPERTIES (cont'd)				
Toxic effects on reproduction:	Given the available data, it has not been possible to establish the classification criteria.			
Teratogenicity and embryotoxicity:	Given the available data, it has not been possible to establish the classification criteria.			
Mutagenicity:	Given the available data, it has not been possible to establish the classification criteria.			
Synergism:	Data unavailable			

SECTION 8 - PREVEN	ITIVE MEASURES AND PERSONAL PROTECTION
Skin protection:	Prevent contact with the skin by means of gloves, boots, and appropriate clothing. Frequently wash exposed areas with water and soap. Remove wet material that has become stuck to your clothing to avoid any contact with your skin.
Respiratory tract protection:	Use respiratory protection that has been approved by <i>NIOSH</i> <sup>4</sup> and by an industrial hygienist or any other qualified professional if concentrations exceed the limits indicated in Section 6. Respiratory protective equipment must be chosen, adjusted, maintained, and inspected in keeping with regulations.
Eye protection:	Wear airtight safety glasses in a dusty environment. Do not wear contact lenses.
Specific technical controls:	Ventilation units must have sufficient capacity and be spatially distributed to ensure compliance with standards of exposure. Use with adequate ventilation to comply with the limits listed in Section 6. Do the work in open air/with local air suction/with ventilation and wear respiratory protection if needed. Local exhaust ventilation is recommended when the mechanical ventilation system cannot maintain product concentrations in the air of the work site below the suggested limit of exposure. When non-protected staff are present, product concentrations in the air must always be maintained below the maximum admissible concentration.
Leak and spill procedures:	Isolate the site. Prevent unprotected non-essential personnel from going into the spill zone. Keep personnel away from low-lying areas. Stay upwind from the spill. Limit access to the spill zone until the cleanup is over. Ensure the cleanup is done only by qualified personnel who wear appropriate devices for respiratory protection. Gather up the material and dump it in an appropriate recipient. Scrape away any wet product and put it in a recipient. Prevent discharge into the sewer system, the ground, or watercourses.
Elimination of hazardous wastes:	Waste production should be avoided or minimized as much as possible. Get rid of surplus and non-recyclable products by making arrangements with a certified waste-disposal contractor. When getting rid of this product, any solutions, and any by-products, you must always comply with the Environment Quality Act, as well as all applicable local/regional and/or other governmental laws. Avoid dispersing material spills, as well as drainage from the spills and any contact with the ground, waterways, drains, and the sewer system.
Handling methods and equipment:	Comply with regulations; use with adequate ventilation; avoid operations that produce a cloud of dust. Avoid inhaling the dust, wear an eye protection device and an appropriate respiratory protection device if ventilation is insufficient. Handle away from incompatible materials. Wear appropriate protective clothing, avoid all contact with your skin. Do not wear contact lenses when handling the product. Immediately remove contaminated clothes and clean them. Do not ingest. Use corrosion-resistant devices. Do not discharge waste into the sewer system.
Storage requirements:	None.
Special shipping information:	Is not subject to the Transportation of Dangerous Goods Act and Regulations (Canada). Is not subject to the U.S. DOT.

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<sup>&</sup>lt;sup>4</sup> NIOSH: National institute for occupational safety and health



SECTION 9 – FII	RST AID
Eyes:	While keeping your eyelids open, rinse your eyes immediately and abundantly with water for at least 15 minutes (or longer until the product is eliminated). Remove your contact lenses and continue to rinse. Consult a physician.
Skin:	Wash exposed areas with water and pH-balanced soap until the product is eliminated. Remove contaminated clothing. Consult a physician.
Inhalation:	In cases of dust inhalation, take the person to a well-ventilated area and place him or her in a semi-seated position. If the person is not breathing, administer artificial respiration. In case of breathing difficulties, give oxygen. Transfer the person immediately to the closest emergency medical service. Consult a physician.
Ingestion:	Immediately after ingestion: give plenty of water to drink. Do not induce vomiting. Never administer anything through the mouth to an unconscious person. Rinse his or her mouth with water.

## **WARNING**

The above information is based on data from reliable sources. Nonetheless, this information is provided to product users only for convenience of reference. Ciment Québec Inc., disclaims any liability for any personal or property-related loss, damage, or injury (including death) that may result directly or indirectly because of reference to the above product use information.

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