LINTERRA CONCRETE

SAFETY DATA SHEET
READY MIX CONCRETE

Product Name: Portland Cement Concrete (Ready Mix Concrete)

Supplier:
Name: Linterra Concrete
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

Component Name	%	CAS No.
Portland Cement	10-20	65997-15-1
Quartz (SiO2)	3-7	14808-60-7
Portlandite (CA(OH)2)	2-4	1305-62-0

Component Name	EXPOSURE LIMITS OSHA PEL TWA	OCGIH TLV TWA
Portland Cement	50mppcf	10m3/m3 total dust
Quartz		0.1mg/m3
Portlandite		5mg/m3

3. HAZARD IDENTIFICATION

Emergency Overview
Odorless, 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 allicosis. This product may contain crystalline silica. Crystalline silica has been classified by IARC as a known human carcinogen. Some human studies indicate the 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.

4. REQUIRED TRANSPORT INFORMATION

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.

5. FIREFIGHTING MEASURES

Not applicable.

6. ACCIDENTAL RELEASE MEASURES

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.

7. HANDLING AND STORAGE

General: Avoid accidental release.
Storage Requirements: Not applicable
Special Shipping Info: Not applicable

8. EXPOSURE CONTROL & PERSONAL PROTECTION

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.

9. PHYSICAL & CHEMICAL PROPERTIES

Physical State:	Plastic until it becomes solid upon setting
Odor	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:	

10. STABILITY AND REACTIVITY

Not applicable

11. SDS PREPARATION AND TOXOLOGICAL INFORMATIOM

For detailed toxicological information contact: **Technical Services Department**
Ash Grove Cement 3801 E. Marginal Way, Seattle
Dave Berg 503.207.2109

12. ECOLOGICAL INFORMATION

For detailed ecological information:
See Section 11 above.

13. DISPOSAL CONSIDERATIONS

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.

14. REQUIRED TRANSPORT INFORMATION

Not a hazardous material for DOT or MOT shipping.

15. REQUIRED TRANSPORT INFORMATION

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.

16. OTHER INFORMATION

Abbreviations:

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

Information in this SDS 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.