

**COLOUR HARDENER**

Product: 001

Revision Date: 2008/05/20

**Section 1: PRODUCT INFORMATION**

**Chemical family:** Cement.

**Manufacturer:** Concreation Canada Inc.  
582 Rivermede Road, Unit 8  
Vaughan, ON L4K 2H5.

**Manufacturer emergency phone number:** Chemtrec 800-424-9300.

**Information phone number:** 905-482-3837

**Supplier:** Same as manufacturer.

**TDG classification:** CORROSIVE SOLID, N.O.S. (portland cement)  
UN1759  
Class 8  
PG III.



**WHMIS classification:**  
  
E, D2A.



**DSL status:** Appears on DSL.

**Supplier MSDS date:** 2008/04/25

**Section 2: HAZARDOUS INGREDIENTS**

C.A.S.	CONCENTRATION %	Ingredient Name	T.L.V.	LD/50	LC/50
1309-37-1	2.3	RED IRON OXIDE	5 MG/M3	NOT AVAILABLE	NOT AVAILABLE
13463-67-7	1.0	TITANIUM DIOXIDE	10 MG/M3	NOT AVAILABLE	NOT AVAILABLE
14808-60-7	60.4	SILICA, QUARTZ	0.05 MG/M3 (R)	NOT AVAILABLE	NOT AVAILABLE
65997-15-1	36.2	PORTLAND CEMENT	10 MG/M3	NOT AVAILABLE	NOT AVAILABLE

**Section 3: PHYSICAL DATA**

**Physical state:** Solid

**Appearance & odor:** Odourless.  
Powder.  
Gray or white.

**Odor threshold (ppm):** Not applicable.

**Vapour pressure (mmHg):** Not applicable.

**Vapour density (air=1):** Not applicable.

**Volatiles (%)**

**By volume:** Not applicable.

**Evaporation rate (butyl acetate = 1):** Not applicable.

**Boiling point (°C):** > 1000°C

**Freezing point (°C):** Not applicable.

**pH:** 12–13 (Portland Cement)  
(in water)

**Specific gravity @ 20 °C:** 2.65 – 4.26  
(based on components)

**Solubility in water (%):** ~0.1 – 1.0

**Coefficient of water\oil dist.:** Not available.

**VOC:** Not available.

<b>Section 4: FIRE &amp; EXPLOSION DATA</b>
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**Flammability:** Not flammable.

**Conditions of flammability:** Surrounding fire.

**Extinguishing media:** Suitable for surrounding fire.

**Special procedures:** Self-contained breathing apparatus required.  
Firefighters should wear the usual protective gear.

**Auto-ignition temperature (°C):** Not available.

**Flash point (°C), method:** Not applicable.

**Lower flammability limit (% vol):** Not applicable.

**Upper flammability limit (% vol):** Not applicable.

**Explosion Data**

**Sensitivity to static discharge:** Not available.

**Sensitivity to mechanical impact:** Not available.

**Hazardous combustion products:** None known.

**Explosive power:** Not applicable.

<b>Section 5: REACTIVITY DATA</b>
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**Chemical stability:** Product is stable.

**Conditions of instability:** Will react with water.

**Hazardous polymerization:** Will not occur.

**Incompatible substances:** Acids  
Aluminum (Al).  
Hydrofluoric acid (HF).  
Bromine trifluoride.  
Fluorides.  
Ammonium salts.

**Hazardous decomposition products:** Adding water will produce (caustic) calcium hydroxide.

## Section 6: TOXICOLOGICAL PROPERTIES

**Route of entry:** Skin contact, eye contact, inhalation and ingestion.

Effects of acute exposure

**Eye contact:** Dust may irritate the eyes.  
May cause inflammation.  
Wet product may cause chemical burns and blindness.

**Skin contact:** Liquid will cause severe burns.  
May cause dryness.  
May cause irritation.  
Effects may be delayed.  
Moisture on skin will accelerate tissue damage.  
May cause allergic reaction.  
Corrosive when moist.

**Inhalation:** Excess inhalation may cause coughing and breathing difficulties.  
Silica may cause lung diseases.  
Irritating to the mucous membranes and respiratory system.

**Ingestion:** May be harmful if swallowed.

**Effects of chronic exposure:** May aggravate pre-existing skin and lung disorders.  
Prolonged and repeated exposure to crystalline silica dust may cause silicosis (lung damage).

**LD50 of product, species & route:** Not available.

**LC50 of product, species & route:** Not available.

**Exposure limit of material:** See hazardous ingredients section.

**Irritancy of material:** See effects of acute exposure.

**Sensitization to product:** Not available.

**Carcinogenic effects:** Quartz (crystalline silica) is carcinogenic.

**Reproductive effects:** Not available.

**Teratogenicity:** Not available.

**Mutagenicity:** Not available.

**Synergistic materials:** Not available.


## Section 7: PREVENTATIVE MEASURES

### Precautionary Measures

**Gloves/Type:**



Wear impervious gloves.

**Respiratory/Type:** 

Wear a NIOSH/MSHA approved respirator if ventilation is inadequate.

**Eye/Type:** 

Safety glasses with side-shields.  
Do not wear contact lenses.

**Footwear/Type:** Impervious boots.

**Clothing/Type:** 

Impervious, full protective.

**Other/Type:** Eye wash facility should be in close proximity.  
Emergency shower should be in close proximity.

**Ventilation requirements:** Local exhaust and/or general ventilation.

**Leak/Spill:** Avoid dust accumulation.  
Prevent entry into drains, sewers, and other waterways.  
Wear appropriate protective equipment.  
Avoid breathing dust.  
Scoop up and place in appropriate container.  
Do not dispose without diluting.

**Waste disposal:** In accordance with municipal, provincial and federal regulations.

**Handling procedures and equipment:** Use adequate ventilation.  
Avoid skin and eye contact.  
Wear personal protective equipment appropriate to task.  
Wash thoroughly after handling.  
Avoid generating or breathing dust.  
Launder contaminated clothing prior to reuse.  
Keep dry.

**Storage requirements:** Store away from incompatible materials.  
Store in a dry place.

**TDG classification:** CORROSIVE SOLID, N.O.S. (portland cement)  
UN1759  
Class 8  
PG III.



**Special shipping information:** See transportation information.

### Section 8: FIRST AID MEASURES

**Skin contact:** Remove contaminated clothing.  
Seek medical attention immediately.  
Wash thoroughly with soap and water.

**Eye contact:** Immediately flush eyes with large amounts of water for at least 15 minutes, lifting upper and lower lids. Get prompt medical attention.

**Inhalation:** Remove victim to fresh air.  
Obtain medical attention.

**Ingestion:** Obtain immediate medical attention.  
Do not induce vomiting.

**Additional information:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any inaccuracies.

<b>Section 9: ADDITIONAL INFORMATION</b>
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**General note:** This material safety data sheet was prepared from information obtained from various sources, including product suppliers and the Canadian Center for Occupational Health and Safety.

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