

# SAFETY DATA SHEET (SDS)

Complies with OSHA's Hazard Communication Standard

Section 29 CFR. 1910.1200, System of Classifying and Labeling Chemicals



## SECTION 1: IDENTIFICATION

### 1.1 Product Identifier

*Product Name:* Concrete Manufacturing Units (CMU)

*Product Code:* N/A

### 1.2 General Use

*Use:* Construction block used in building and site development

### 1.3 Supplier Details

*Name:* Cromwell Concrete Products

*Address:* 667 Main Street, Cromwell CT, 06416

*Telephone Number:* (860) 635-5146

*Email:* info@cromwellconcrete.com

### 1.4 Emergency Contact

*Telephone Number:* (860) 635-5146

## SECTION 2: HAZARD(S) IDENTIFICATION

### 2.1 Classification of the Chemical

Skin Irritation 2

Eye Irritation 2A

Skin Sensitization 1

Carcinogenicity

Carcinogenicity 1A

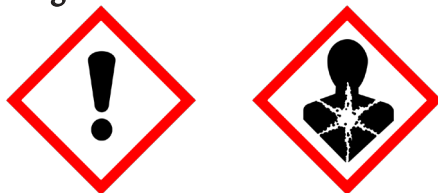
Specific Target Organ Toxicity:

- Single Exposure 3

- Repeated Exposure 1

### 2.2 Label Elements According to OSHA HAZCOM 2012

*Hazard Pictogram:*



*Hazard Statement:* Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Respirable dust may contain crystalline silica, known to cause cancer. May cause respiratory irritation. Causes damage to lungs through prolonged or repeated exposure.

*Prevention:* Do not eat, drink, or smoke while using this product. Wash hands thoroughly after handling. Do not handle until all safety precautions have been read and understood. Wear protective equipment when handling. Do not breathe dust.

## 2.2 Label Elements According to OSHA HAZCOM 2012 Continued

**Response:** If exposed or concerned: Seek medical advice/attention.  
If on skin: Wash with plenty of water, remove any contaminated clothing.  
If skin rash or irritation occurs: Seek medical advice/attention.  
If in eyes: Rinse thoroughly with water, remove any contact lenses.  
If eye irritation persists: Seek medical advice/attention.  
If inhaled: Remove person to fresh air.  
If inhalation effects persist: Seek medical advice/attention.

**Storage:** N/A

**Disposal:** Dispose of unsold or unwanted concrete products in accordance with all local, regional, national, and international regulations.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Mixtures

Ingredient	Weight %	CAS No.
Portland Cement	10-30	65997-15-1
Water	1-10	7732-18-5
Silica, crystalline, quartz	25-50	14808-60-7
Calcium Carbonate	20-45	1317-65-3
Solite Lightweight Material	40-50	

\*\*Exact concentration of composition will be withheld as a trade secret in accordance with paragraph (i) of 1910.1200.

## SECTION 4: FIRST-AID MEASURES

### 4.1 Description of the First Aid Measure

**Eye:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses if applicable. Continue to flush out eyes. If irritation persists, seek medical advice/attention.

**Skin:** If contact and irritation occurs, wash skin with plenty of water. Remove any and all contaminated articles of clothing or shoes. Make sure to wash clothing before reuse. If irritation persists, seek medical advice/attention.

**Inhalation:** If inhaled and breathing becomes difficult, remove affected person(s) to fresh air. If effects of inhalation persist, seek medical advice/attention.

**Ingestion:** If swallowed, do not induce vomiting unless directed by a medical professional. Never give anything by mouth to an unconscious person. Seek medical advice/attention immediately.

#### 4.2 Most Important Symptoms and Effects, Both Acute and Delayed

<i>Eye:</i>	Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
<i>Skin:</i>	Causes skin irritation. Wear gloves when handling product to avoid drying and mechanical abrasion of the skin. May cause sensitization by skin contact.
<i>Inhalation:</i>	Dust may cause respiratory tract irritation.
<i>Ingestion:</i>	Not a normal route of exposure. May result in obstruction and temporary irritation of the digestive tract.

#### 4.3 If Indication of Any Immediate Medical Attention Needed

<i>Note To Physicians:</i>	Symptoms may not appear immediately.
<i>Specific Treatments:</i>	Seek medical advice/attention immediately. Show SDS to medical professional.

### SECTION 5: FIRE-FIGHTING MEASURES

#### 5.1 Flammability

<i>Flammability:</i>	Not flammable by WHMIS/OSHA/NOM-018-STPS-2000 criteria.
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#### 5.2 Extinguishing Media

<i>Suitable Extinguishing Media:</i>	Treat for surrounding material.
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<i>Unsuitable Extinguishing Media:</i>	None.
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#### 5.3 Special Hazards Arising From Chemical

<i>Products of Combustion:</i>	May include, and are not limited to: oxides of carbon.
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<i>Explosion Data:</i>	Not available.
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#### 5.4 Special Protective Equipment And Precautions For Fire Fighters

Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal Precautions, Protective Equipment, and Emergency Procedures

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

#### 6.2 Methods and Materials for Containment and Cleaning - Up

<i>Methods for Containment:</i>	Pick up large pieces, dispose. Do not flush to sewer or allow to enter waterways. Use appropriate personal protective equipment (PPE)
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<i>Methods for Cleaning-Up:</i>	Vacuum or sweep material, dispose. Use water for dust control, or ventilation mask as needed.
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## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for Safe Handling

**Handling:** Avoid direct contact with skin, eyes, and mouth when at all possible. Avoid generating and breathing dust, and use dust control methods whenever possible to avoid build-up. Handle with care. When using do not eat or drink. See Section 8 for further information.

**General Hygiene:** Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

### 7.2 Conditions for Safe Storage, Including Any Incompatibilities

**Storage:** Proper maintenance and cleaning of storage area, as well as dry conditions.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control Parameters

#### *Exposure Guidelines:*

Occupational Exposure Limits		
Ingredient	OSHA-PEL	ACGIH-TLV
Portland Cement	15 mg/m <sup>3</sup> (total); 5 mg/m <sup>3</sup> (resp)	1 mg/m <sup>3</sup> (no asbestos and <1% crystalline silica, respirable fraction)
Silica, crystalline, quartz	((10 mg/m <sup>3</sup> )/(%SiO <sub>2</sub> +2) (resp)) ((30 mg/m <sup>3</sup> )/(%SiO <sub>2</sub> +2) (total)) ((250)/(%SiO <sub>2</sub> +5) mppcf (resp))	0.025 mg/m <sup>3</sup>
Calcium Carbonate	15 mg/m <sup>3</sup> (total); 5 mg/m <sup>3</sup> (resp))	10 mg/m <sup>3</sup>
Water	Not Available.	Not Available.
Aggregate Stone	Not Available.	Not Available.
Sand	Not Available.	Not Available.

### 8.2 Exposure Controls

**Engineering Controls:** When using this product, provide local and general exhaust ventilation to keep airborne dust concentrations below exposure limits. Use wet methods, if appropriate, to reduce the generation of dust.

### 8.3 Individual Protective Measures

#### **Personal Protective Equipment:**

**Eye/ Face Protection:** Safety glasses or goggles are recommended when using this product.

**Skin Protection:**

**Hand Protection:** Wear suitable gloves.

**Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** A NIOSH approved dust mask is recommended when cutting in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on Basic Physical and Chemical Properties

Appearance:	Fully cured and hydrated concrete
Color:	Grey
Odor:	Odorless
Physical State:	Solid
pH:	12-13
Melting Point/Freezing Point:	N/A
Initial Boiling Point and Boiling Range:	N/A
Flash Point:	N/A
Evaporatio Rate:	N/A
Flammability:	Not flammable
Lower Flammability/Exposure Limit:	N/A
Upper Flammability/Exposure Limit:	N/A
Vapor Pressure:	N/A
Vapor Density:	N/A
Relative Density/Specific Gravity:	2.1-2.4
Soulubility:	Insoluble.
Partition Coefficient: n-octanol/water:	N/A
Auto-ignition Temperature:	N/A
Decomposition Temperature:	N/A
Viscosity:	Solid
Oxidizing Properties:	N/A
Explosive Properties:	N/A

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical Stability

Stable under normal conditions of use.

### 10.3 Possibility of Hazardous Reactions

No dangerous reaction known under conditions of normal use.

### 10.4 Conditions to Avoid

None known.

### 10.5 Incompatible Materials

None known.

### 10.6 Hazardous Decomposition Products

None known.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on Toxicological Effects:

*Likely Routes of Exposure:* Skin contact, eye contact, and inhalation.

#### *Symptoms related to physical/chemical/toxicological characteristics:*

*Eye:* Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.

*Skin:* Causes skin irritation. Wear gloves when handling product to avoid drying and mechanical abrasion of the skin. May cause sensitization by skin contact.

*Ingestion:* Not a normal route of exposure. May result in obstruction and temporary irritation of digestive tract.

*Inhalation:* Dust may cause respiratory tract irritation.

#### *Acute Toxicity:*

Ingredient	IDLH	LC50	LD50
Portland Cement	5000 mg/m <sup>3</sup>	N/A	N/A
Water	N/A	Inhalation 90000 mg/m <sup>3</sup> /4h. rat	Oral > 90000 mg/kg, rat Dermal > 90000 mg/kg, rabbit
Silica, Crystalline, Quartz	Ca[25 mg/m <sup>3</sup> (cristobalite, tridymite); 50 mg/m <sup>3</sup> (quartz, tripoli)]	N/A	Oral 500 mg/kg, rat
Calcium Carbonate	N/A	N/A	Oral 6450 mg/kg. rat

Calculated Overall Chemical Acute Toxicity Values		
LC50 (inhalation)	LD50 (oral)	LD50 (dermal)
>5 mg/l/4h, rat	>2000 mg/kg, rat	>2000 mg/kg, rat

Ingredient	Chemical Listed as Carcinogen or Potential Carcinogen (NTP, IRAC, OSHA, ACGIH, CP65)
Portland Cement	G-A4
Water	Not listed.
Silica, Crystalline, Quartz	G-A2, I-1, N-1, O, CP65
Calcium Carbonate	Not listed.

## 11.2 Delayed, Immediate, and Chronic Effects of Short- and Long-Term Exposure

Skin Corrosion/Irritation:	Causes skin irritation.
Serious Eye Damage/Irritation:	Causes serious eye irritation.
Respiratory Sensitization:	Based on available data, the classification criteria are not met.
Skin Sensitization:	May cause an allergic skin reaction.
STOT-Single Exposure:	Dust may cause respiratory tract irritation.
Chronic Health Effects:	
Carcinogenicity:	Respirable dust may contain crystalline silica, known to cause cancer.
Germ Cell Mutagenicity:	Based on available data, the classification criteria are not met.
Reproductive Toxicity:	
Developmental:	Based on available data, the classification criteria are not met.
Teratogenicity:	Based on available data, the classification criteria are not met.
Embryotoxicity:	Based on available data, the classification criteria are not met.
Fertility:	Based on available data, the classification criteria are not met.
STOT-Repeated Exposure:	Causes damage to lungs through prolonged or repeated exposure. Respirable crystalline silica in the form of quartz or cristobalite from occupational sources is listed by the International Agency for Research on Cancer (IARC) and National Toxicology Program (NTP) as a lung carcinogen. Prolonged exposure to respirable crystalline silica has been known to cause silicosis, a lung disease, which may be disabling. While there may be a factor of individual susceptibility to a given exposure to respirable silica dust, the risk of contracting silicosis and the severity of the disease is clearly related to the amount of dust exposure and the length of time (usually in years) of exposure.
Aspiration Hazard	Based on available data, the classification criteria are not met.
Toxicologically Synergistic Materials:	None.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Ecotoxicity

*Acute/Chronic Toxicity:* No ecological consideration when used according to directions.

### 12.2 Persistence and Degradability

Not available.

### 12.3 Bioaccumulative Potential

Not available.

### 12.4 Mobility in Soil

Not available.

### 12.5 Other Adverse Effects

Not available.



## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste Treatment Methods

*Disposal Method:* This material must be disposed of in accordance with all local, state, provincial, and federal regulations.

## SECTION 14: TRANSPORT INFORMATION

### 14.1 In Accordance with D.O.T

Not regulated for transport.

## SECTION 14: TRANSPORT INFORMATION

### 15.1 Safety, Health, and Environmental Regulations/Legislations Specific for the Chemical

*US:* SDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

SARA Title III				
Ingredient	Section 302 (EHS) TPQ (lbs.)	Section 304 EHS RQ (lbs.)	CERCLA RQ (lbs.)	Section 313
Portland Cement	Not listed.	Not listed.	Not listed.	Not listed.
Water	Not listed.	Not listed.	Not listed.	Not listed.
Silica, Crystalline, Quartz	Not listed.	Not listed.	Not listed.	Not listed.
Calcium Carbonate	Not listed.	Not listed.	Not listed.	Not listed.

NFPA - National Fire Protection Association:	
Health:	2
Fire:	0
Reactivity:	0

HMIS - Hazardous Materials Identification System:	
Health:	2
Fire:	0
Physical Hazard:	0

**Hazard Rating:** 0=Minimal, 1=Slight, 2=Moderate, 3=Severe, 4=Extreme

Global Inventories:		
Ingredient	Canada DSL/NDSL	USA TSCA
Portland Cement	DSL	Yes
Water	DSL	Yes
Silica, Crystalline, Quartz	DSL	Yes
Calcium Carbonate	NDSL	Yes

**California Proposition 65:** The product contains Crystalline Silica, Quartz and, and may also contain trace amounts of other chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm which may be released upon sanding/cutting/grinding/drilling.



## SECTION 16: OTHER INFORMATION

Date of Preparation:	03/23/2017
Expiry Date:	12-31-2045
Version:	2.0
Revision Date:	N/A

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End of Safety Data Sheet (SDS)

