

Concrete Block Products

Safety Data Sheet

Revision Date: 11/21/2017 Date of Issue: 11/21/2017

SDS: Canal Block – Concrete Products

Section 1: Identification

Product Name: Canal Block Products

Product Identifiers: Concrete Block

Manufacturer:

Canal Block
3562 Nugent Road
Port Colborne ON L3K 5V4

Information Telephone Number:

905-734-9094 (8 a.m. to 4:30 p.m. EST)

Emergency Telephone

905-734-9094

Website: <http://www.canalblock.com/>

Intended Use: Concrete block is used in a wide variety of applications in buildings and civil engineering projects.

Section 2: Hazard(s) Identification

Classification:

Skin Sensitizer – Category 1

Carcinogenicity – Category 1A

Specific Target Organ Toxicity (Single Exposure-Respiratory System) – Category 3

Specific Target Organ Toxicity (Repeat Exposure-Respiratory System) – Category 1

Labeling:

Pictograms:



Signal Word: DANGER

Hazard Statements

H317 – May cause an allergic skin reaction.

H335 – May cause respiratory irritation.

H351 – Suspected of causing cancer.

H372 – Causes damage to the organs (respiratory system) through prolonged or repeated exposure.

Precautionary Statements

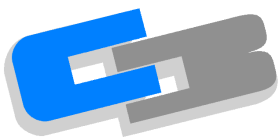
P102 – Keep out of the reach of children.

P201 – Obtain special instructions before use.

P202 – Do not handle until all safety precautions have been read and understood.

P260 – Do not breathe dusts.

P264 – Wash exposed areas of face and body with water thoroughly after handling.



Concrete Block Products

Safety Data Sheet

Revision Date: 11/21/2017 Date of Issue: 11/21/2017

SDS: Canal Block – Concrete Products

P270 – Do not eat, drink, or smoke when using this product.

P272 – Contaminated work clothing should not be allowed out of the workplace.

P280 – Wear protective gloves/protective clothing/eye protection/face protection.

Response

P302 + P352 – if on skin: wash with plenty of water

P304 + P340 + P312 – if inhaled: remove person to fresh air and keep comfortable for breathing. Call a doctor if you feel unwell.

P308 + P313 – if exposed or concerned: get medical advice/attention.

P333 + P313 – if skin irritation or rash occurs: get medical advice/attention

P362 + P364 – Take off contaminated clothing. And wash before reuse.

Storage

P403 – Store in a well-ventilated place.

Disposal

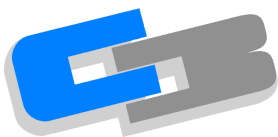
P501 – Dispose of contents in accordance with local/regional/national/international regulations.

Other Hazards

Concrete products vary in size, shape and colour, depending on final use. They are not combustible or explosive. Concrete products in their intact state will not release airborne dust, but dust can be produced during cutting, drilling, grinding, chasing and other machining of the product. A single, short-term exposure to concrete dust presents little or no hazard.

Section 3: Composition/ Information on Ingredients

Component	Percent (By Weight)	CAS Number	OSHA PEL – TWA (mg/m ³)	ACGIH TLV-TWA (mg/m ³)	LD ₅₀ (mouth, oral)	LC ₅₀
Crystalline Silica	0-90	14808-60-7	[(10)/(%SiO ₂ +2)](R); [(30)/ %SiO ₂ +2)](T)	0.05 (R)	NA	NA
Calcium Hydroxide	15-25	1305-62-0	15(T); 5 (R)	5 (T)	7300 mg/kg	NA
Portland Cement *	0-10	65997-15-1	15(T); 5 (R)	10 (R)	NA	NA
Particulate Not Otherwise Regulated	-	NA	15(T); 5 (R)	10 (T); 3 (R)	NA	NA



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Revision Date: 11/21/2017 Date of Issue: 11/21/2017

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Note: Exposure limits for components noted with an * contain no asbestos and <1% crystalline silica.

Concrete is a mixture of gravel or rock, sand, Portland cement and water. It may also contain fly ash, slag, silica fume, calcined clay, fibres (metallic or organic) and colour pigment.

Concrete contains cement, which is made from materials mined from the earth and is processed using energy provided by fuels. Trace amounts of chemicals may be detected during chemical analysis. For example, cement may contain trace amounts of calcium oxide (also known as free lime or quick lime), free magnesium oxide, potassium and sodium sulfate compounds, chromium compounds, nickel compounds, and other trace compounds.

Section 4: First Aid Measures

- | | |
|-------------------------|--|
| 1. Eye Contact: | Rinse eyes thoroughly with water for at least 15 minutes, including under lids, to remove all particles. Seek medical attention for abrasions and burns. |
| 2. Skin Contact: | Wash with cool water and a pH neutral soap or a mild skin detergent. Seek medical attention for rash, irritation, dermatitis. |
| 3. Inhalation: | Move person to fresh air. Seek medical attention for discomfort or if coughing or other symptoms do not subside. |
| 4. Ingestion: | Do not induce vomiting. If conscious, have person drink plenty of water. Seek medical attention or contact poison control center immediately. |

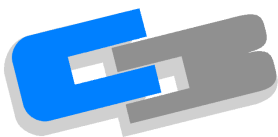
Note to Physician:

The three types of silicosis include:

Simple chronic silicosis – results from long-term exposure (more than 20 years) to low amounts of respirable crystalline silica. Nodules of chronic inflammation and scarring provoked by the respirable crystalline silica form in the lungs and chest lymph nodes. This disease may feature breathlessness and may resemble chronic obstructive pulmonary disease (COPD).

Accelerated silicosis – occurs after exposure to larger amounts of respirable crystalline silica over a shorter period of time (5-15 years). Inflammation, scarring, and symptoms progress faster in accelerated silicosis than in simple silicosis.

Acute silicosis – results from short-term exposure to very large amounts of respirable crystalline silica. The lungs become very inflamed and may fill with fluid, causing severe shortness of breath and low blood oxygen levels. Progressive massive fibrosis may occur in simple or accelerated silicosis, but is more common in the accelerated form. Progressive massive fibrosis results from severe scarring and leads to the destruction of normal lung structures.



Concrete Block Products

Safety Data Sheet

Revision Date: 11/21/2017 Date of Issue: 11/21/2017

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Section 5: Firefighting Measures

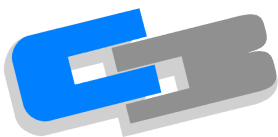
Flashpoint & Method:	Non-combustible	Firefighting Equipment:	Concrete products do not pose a fire-related hazard. A SCBA is recommended to limit exposures to combustion products when fighting any fire.
General Hazard:	Avoid breathing dust		
Extinguishing Media:	Use extinguishing media appropriate for surrounding fire.	Combustion Products:	None

Section 6: Accidental Release Measures

General:	Place spilled material into a container. Avoid actions that cause the concrete dust to become airborne. Avoid inhalation of concrete dust. Wear appropriate protective equipment as described in Section 8.
Waste Disposal Method:	Dispose of concrete products according to Federal, Provincial and Local regulations.

Section 7: Handling and Storage

General:	Store concrete products in a secure manner to prevent falling. Ensure adequate load-bearing capacity of ground, floors or platforms when placing or storing concrete products. Concrete products are heavy and pose risks such as sprains and strains to the back, arms, shoulders and legs during lifting. Handle with care and use appropriate control measures. Use appropriately rated equipment (such as cranes) and rigging when moving and placing concrete products.		
Usage:	Cutting, crushing or grinding hardened cement, concrete or other crystalline silica-bearing materials will release respirable crystalline silica. Use all appropriate measures of dust control or suppression and Personal Protective Equipment (PPE) described in Section 8 below.		
Housekeeping:	Avoid actions that cause the concrete dust to become airborne during clean-up such as dry sweeping or using compressed air. Use HEPA vacuum or thoroughly wet with water to clean-up dust. Use PPE described in Section 8 below.		
Storage Temperature:	Unlimited	Storage Pressure:	Unlimited
Clothing:	Promptly remove and launder clothing that is dusty. Thoroughly wash skin after exposure to dust.		



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Section 8: Exposure Controls and Personal Protection

Engineering Controls: Use local exhaust or general dilution ventilation or other suppression methods to maintain dust levels below exposure limits.

Personal Protective Equipment (PPE):

Respiratory Protection: Under ordinary conditions no respiratory protection is required. Wear a NIOSH approved respirator that is properly fitted and is in good condition when exposed to dust above exposure limits.

Eye Protection: Wear ANSI approved glasses or safety goggles when handling concrete products and when involved with activities that generate dust, to prevent contact with eyes. Wearing contact lenses when using concrete products, under dusty conditions, is not recommended.

Skin Protection: Wear gloves when handling concrete products. Remove clothing and protective equipment that becomes dusty and launder before reusing.

Foot Protection: Wear ANSI approved hard-toed safety boots when handling concrete products.

Section 9: Physical and Chemical Properties

Physical State:	Solid	Evaporation Rate:	NA
Appearance:	Various colours and shapes	pH (in water):	7
Odor:	None	Boiling Point	None, solid
Vapour Pressure:	NA	Freezing Point:	None, solid
Vapour Density:	NA	Viscosity:	None, solid
Specific Gravity:	2.5	Solubility in Water	Not Soluble

Section 10: Stability and Reactivity

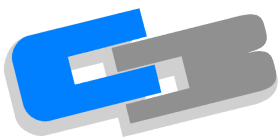
Stability:	Stable	Hazardous Polymerization:	None.
Incompatibility:	None known.	Hazardous Decomposition:	None.

Section 11 and 12: Toxicological and Ecological Information

For questions regarding toxicological and ecological information refer to contact information in Section 1.

Section 13: Disposal Considerations

Dispose of waste and containers in compliance with applicable Federal, Provincial and Local regulations.



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Safety Data Sheet

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SDS: Canal Block – Concrete Products

Section 14: Transport Information

This product is not classified as a Hazardous Material under Canadian TDG regulations.

Section 15: Regulatory Information

WHMIS/DSL: Products containing crystalline silica are classified as D2A, E and are subject to WHMIS requirements.

Section 16: Other Information

Abbreviations:

>	Greater than	OSHA	Occupational Safety and Health Administration
ACGIH	American Conference of Governmental Industrial Hygienists	PEL	Permissible Exposure Limit
CAS No	Chemical Abstract Service number	pH	Negative log of hydrogen ion
HEPA	High-Efficiency Particulate Air	PPE	Personal Protective Equipment
IARC	International Agency for Research on Cancer	R	Respirable Particulate
LC ₅₀	Lethal Concentration	T	Total Particulate
LD ₅₀	Lethal Dose	TDG	Transportation of Dangerous Goods
mg/m ³	Milligrams per cubic metre	TLV	Threshold Limit Value
NA	Not Applicable	TWA	Time Weighted Average (8 hour
NIOSH	National Institute for Occupational Safety and Health	WHMIS	Workplace Hazardous Materials Information System
NTP	National Toxicology Program		

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