

# CRANESVILLE BLOCK COMPANY, INC.

*Lightweight and Concrete Masonry Units  
Ready Mixed Concrete – Mason Supplies*



## Material Safety Data Sheet

### Section 1: PRODUCT AND COMPANY INFORMATION

Product Name(s): Concrete Products  
Product Identifiers: Concrete Block and Pre-Cast Septic Tanks

Manufacturer: Cranesville Block Co., Inc.  
1250 Riverfront Center  
Amsterdam, New York 12010  
Information Telephone Number : 518-684-6069  
8 am – 5 pm, Eastern Standard Time  
Emergency Telephone Number : 518-866-2729

Product Use: Concrete products are used in a wide variety of applications in buildings and civil engineering projects.

Note: This MSDS covers many concrete products. Individual composition of hazardous constituents will vary between types of concrete product.

### Section 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component	Percent (By Weight)	CAS Number	OSHA PEL -TWA (mg/m <sup>3</sup> )	ACGIH TLV-TWA (mg/m <sup>3</sup> )	LD <sub>50</sub> (mouse, oral)	LC <sub>50</sub>
Crystalline Silica	0-90	14808-60-7	[(10) / (%SiO <sub>2</sub> +2)] (R); [(30) / (%SiO <sub>2</sub> +2)] (T)	0.025 (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)	1 (R)	NA	NA
Particulate Not Otherwise Regulated	-	NA	15 (T); 5 (R)	10 (T); 3 (R)	NA	NA

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, fibers (metallic or organic) and color 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 3: HAZARD IDENTIFICATION

	<b>WARNING</b>	 Respiratory Protection  Eye Protection  Gloves
	<p>Toxic - Harmful by inhalation. (Contains crystalline silica)</p> <p>Use proper engineering controls, work practices, and personal protective equipment to prevent exposure to wet or dry product.</p> <p>Read MSDS for details.</p>	

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## Section 3: HAZARD IDENTIFICATION (continued)

- Emergency Overview:** Concrete products vary in size, shape and color, 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.
- Potential Health Effects:**
- Eye Contact:** Airborne dust may cause immediate or delayed irritation or inflammation. Eye contact with large amounts of concrete dust can cause moderate eye irritation and abrasion. Eye exposures require immediate first aid and medical attention to prevent significant damage to the eye.
- Skin Contact:** Concrete dust may cause dry skin, discomfort, irritation and dermatitis.
- Dermatitis: Concrete dust, in association with sweat and friction, can lead to skin irritation and dermatitis. Skin affected by dermatitis may include symptoms such as, redness, itching, rash, scaling, and cracking. Irritant dermatitis is caused by the physical properties of concrete dust such as abrasion.
- Inhalation (acute):** Breathing dust may cause nose, throat or lung irritation, including choking, depending on the degree of exposure.
- Inhalation (chronic):** Risk of injury depends on duration and level of exposure.
- Silicosis: This product contains crystalline silica. Prolonged or repeated inhalation of respirable crystalline silica from this product can cause silicosis, a seriously disabling and fatal lung disease. See Note to Physicians in Section 4 for further information.
- Carcinogenicity: Concrete is not listed as a carcinogen by IARC or NTP; however, concrete contains trace amounts of crystalline silica which is classified by IARC and NTP as known human carcinogens.
- Autoimmune Disease: Some studies show that exposure to respirable crystalline silica (without silicosis) or that the disease silicosis may be associated with the increased incidence of several autoimmune disorders such as scleroderma (thickening of the skin), systemic lupus erythematosus, rheumatoid arthritis and diseases affecting the kidneys.
- Tuberculosis: Silicosis increases the risk of tuberculosis.
- Renal Disease: Some studies show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.
- Ingestion:** Do not ingest concrete. Although ingestion of small quantities of concrete is not known to be harmful, large quantities can cause distress to the digestive tract.
- Medical Conditions Aggravated by Exposure:** Individuals with lung disease (e.g. bronchitis, emphysema, COPD, pulmonary disease) can be aggravated by exposure.

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## Section 4: FIRST AID MEASURES

- 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.
- Skin Contact:** Wash with cool water and a pH neutral soap or a mild skin detergent. Seek medical attention for rash, irritation, dermatitis.
- Inhalation:** Move person to fresh air. Seek medical attention for discomfort or if coughing or other symptoms do not subside.
- 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 – which 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.

## Section 5: FIREFIGHTING MEASURES

- |                                 |   |                                |   |
|---------------------------------|---|--------------------------------|---|
| <b>Flashpoint &amp; Method:</b> | Non-combustible   | <b>Firefighting Equipment:</b> | Concrete products do not pose a fire-related hazard.                                    |
| <b>General Hazard:</b>          | Avoid breathing dust.                                     |                                | A SCBA is recommended to limit exposures to combustion products when fighting any fire. |
| <b>Extinguishing Media:</b>     | Use extinguishing media appropriate for surrounding fire. | <b>Combustion Products:</b>    | 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, State, Provincial and Local regulations.



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## Section 10: STABILITY AND REACTIVITY

Stability: Stable.  
Incompatibility: None known.  
Hazardous Polymerization: None. 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, State, Provincial and Local regulations.

## Section 14: TRANSPORT INFORMATION

This product is not classified as a Hazardous Material under U.S. DOT or Canadian TDG regulations.

## Section 15: REGULATORY INFORMATION

### OSHA/MSHA Hazard Communication:

This product is considered by OSHA/MSHA to be a hazardous chemical and should be included in the employer's hazard communication program.

### CERCLA/SUPERFUND:

This product is not listed as a CERCLA hazardous substance.

### EPCRA SARA Title III:

This product has been reviewed according to the EPA Hazard Categories promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 and is considered a hazardous chemical and a delayed health hazard.

### EPCRA SARA Section 313:

This product contains none of the substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

### RCRA:

If discarded in its purchased form, this product would not be a hazardous waste either by listing or characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

### TSCA:

Concrete and crystalline silica are exempt from reporting under the inventory update rule.

### California Proposition 65:

Crystalline silica (airborne particulates of respirable size) is a substance known by the State of California to cause cancer.

### WHMIS/DSL:

Products containing crystalline silica is classified as D2A, E and is subject to WHMIS requirements.



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## Section 16: OTHER INFORMATION

### Abbreviations:

>	Greater than	NA	Not Applicable
ACGIH	American Conference of Governmental Industrial Hygienists	NFPA	National Fire Protection Association
CAS No	Chemical Abstract Service number	NIOSH	National Institute for Occupational Safety and Health
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act	NTP	National Toxicology Program
CFR	Code for Federal Regulations	OSHA	Occupational Safety and Health Administration
CL	Ceiling Limit	PEL	Permissible Exposure Limit
DOT	U.S. Department of Transportation	pH	Negative log of hydrogen ion
EST	Eastern Standard Time	PPE	Personal Protective Equipment
HEPA	High-Efficiency Particulate Air	R	Respirable Particulate
HMIS	Hazardous Materials Identification System	RCRA	Resource Conservation and Recovery Act
IARC	International Agency for Research on Cancer	SARA	Superfund Amendments and Reauthorization Act
LC <sub>50</sub>	Lethal Concentration	T	Total Particulate
LD <sub>50</sub>	Lethal Dose	TDG	Transportation of Dangerous Goods
mg/m <sup>3</sup>	Milligrams per cubic meter	TLV	Threshold Limit Value
MSHA	Mine Safety and Health Administration	TWA	Time Weighted Average (8 hour)
		WHMIS	Workplace Hazardous Materials Information System

This MSDS (Sections 1-16) was revised on March 1, 2011.