

SAFETY DATA SHEET

Revision date: 29-May-2015

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1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

Product Identifier**Product Names:** Lightweight Concrete Block**Relevant Identified Uses of the Substance or Mixture and Uses Advised Against****Intended Use:** Concrete products are used in a wide variety of applications in buildings and civil engineering projects.**Details of the Supplier of the Safety Data Sheet**

Brampton Brick Limited
225 Wanless Drive
Brampton ON, L7A 1E9
Product Support/Technical Services Phone: 1-800-462-7425

Emergency telephone number:
CHEMTEL, INC. (24 hours): 1-800-255-3924

2. HAZARDS IDENTIFICATION

Appearance: Solid, light to dark grey concrete.**Hazard Classification of the Substance or Mixture:**
Skin Irritation 2
Eye Irritation 2A
Skin Sensitization 1
Carcinogenicity 1A
Specific target organ toxicity – Single Exposure 3
Specific target organ toxicity – Repeated exposure 1**Signal Word:** **Danger****Hazard Statement:** Concrete dust may contain crystalline silica, a chemical that has been determined by certain agencies to cause cancer. See Section 11 for more information on health hazards.**Pictograms:** Not applicable.

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2. HAZARDS IDENTIFICATION

Precautionary Statements: Do not breathe dust if dry sawing/cutting.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS Number	% Weight
Blast Furnace Slag	65996-69-2	0 - 70
Calcium Hydroxide	1305-62-0	15 - 25
Portland Cement	65997-15-1	10 - 25
Crystalline Silica	14808-60-7	0 - 20

Additional Information: The above chemistries are provided for industrial hygiene and environmental purposes and are not intended to represent product specifications. This information has been compiled from data believed to be reliable. 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.

4. FIRST AID MEASURES

Description of First Aid Measures

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. If eye irritation persists: Get medical advice/attention.

Skin Contact: If irritation occurs, flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.

Ingestion: Not a normal route of exposure. If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention.

Inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms and Effects of Exposure: For information on potential signs and symptoms of exposure, See Section 2 - Hazards Identification and/or Section 11 - Toxicological Information.

Medical Conditions Aggravated by Exposure: Excessive dust exposure may aggravate existing respiratory disorders or diseases. Possible complications or allergies resulting in irritation to skin, eyes, and respiratory tract may occur from excessive exposure to dusts.

Recommendations for Immediate Medical Attention and Special Treatment Needed

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Notes to Physician: Symptoms may not appear immediately

5. FIRE-FIGHTING MEASURES

Flammability: Not flammable by WHMIS/OSHA/NOM-2000 criteria.

Extinguishing Media: Treat for surrounding material.

Unsuitable Extinguishing Media: Not available

Special Hazards Arising from the Substance or Mixture

Hazardous Combustion No data available

Products:

Fire / Explosion Hazards: Units as shipped do not pose a fire or explosion hazard.

Advice for Fire-Fighters

None

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Protective Equipment

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

Emergency Procedures

Not applicable.

Methods and Material for Containment and Cleaning Up

Not applicable.

Cleanup Procedures

Not applicable.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Minimize dust generation and accumulation. Avoid breathing dust. Use wet methods to reduce dust while cutting units. The use of compressed air for cleaning clothing, equipment etc. is not recommended. Handle with care.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions: Always stack and store units in a stable manner to avoid falling hazards. Avoid any dust build up by frequent cleaning and suitable construction of the storage area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ingredient

Occupational Exposure Limits
OSHA-PEL

ACGIH-TLV

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Crystalline Silica Quartz	10 mg/m ³ /(%SiO ₂ +2)	
Quartz (Respirable)	30 mg/m ³ /(%SiO ₂ +2)	0.05 mg/m ³ /(%SiO ₂ +2)
Quartz (Total Dust)		

Exposure Controls**Engineering Controls:**

Inhalation of dust from these materials above established or recommended exposure levels should be avoided through engineering or administrative controls. Provide adequate ventilation to maintain exposures below the OSHA PEL and ACGIH TLV for quartz and other substances. NIOSH and/or MSHA approved respirator.

Personal Protective Equipment:**Eyes and Face:**

Protective glasses or face shields.

Skin:

Use gloves and or protective clothing if abrasions or allergic reactions are experienced.

Respiratory protection:

For airborne concentration exceeding the OSHA PEL or ACGIH TLV use a NIOSH and/or MSHA approved respirator in accordance with a respiratory protection program meeting the OSHA or MSHA standards for such programs [29 CFR Section 1910.134 or ANSI Z88.2 – 1969].

Other:

Use of wet sawing methods is recommended anytime that concrete units must be cut.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid	Color:	Wide range of colours
Odor:	Odourless	Odor Threshold:	No data available
Molecular Formula:	Mixture	Molecular Weight:	Mixture

Solvent Solubility:	No data available
Water Solubility:	Insoluble
pH:	No data available.
Melting/Freezing Point (°C):	No data available
Boiling Point (°C):	No data available
Partition Coefficient: (Method, pH, Endpoint, Value)	No data available

Decomposition Temperature (°C): No data available.

Evaporation Rate (Gram/s):	No data available
Vapor Pressure (kPa):	NA
Vapor Density (g/ml):	NA
Relative Density:	No data available
Viscosity:	No data available

Flammability:

Autoignition Temperature (Solid) (°C):	No data available
Flammability (Solids):	No data available
Flash Point (Liquid) (°C):	No data available
Upper Explosive Limits (Liquid) (% by Vol.):	No data available
Lower Explosive Limits (Liquid) (% by Vol.):	No data available

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10. STABILITY AND REACTIVITY

Reactivity:	No dangerous reaction known under conditions of normal use
Chemical Stability:	Stable under normal conditions of use
Possibility of Hazardous Reactions:	
Oxidizing Properties:	No data available
Incompatible Materials:	No data available
Hazardous Decomposition Products:	No data available

11. TOXICOLOGICAL INFORMATION

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

Effects of Short Term and Long Term Exposure:

Short Term

Concrete units as shipped do not present an inhalation, ingestion or contact hazard. However, dry sawing and grinding may result in the following effects.

Eye:	May cause irritation by abrasion with airborne dust. 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.
Inhalation:	Dust may cause respiratory tract irritation.
Ingestion:	Not a normal route of exposure. May result in obstruction and temporary irritation of the digestive tract.

Long Term

Excessive exposures to respirable particulates (dust) over an extended period of time may result in the development of pulmonary diseases such as silicosis.

Information on Toxicological Effects

General Information:

Toxicological properties of the formulation have not been investigated. The information in this section describes the potential hazards of crystalline silica. Concrete units contain materials contain naturally-occurring crystalline silica, a chemical that has been determined by the agencies listed below to cause cancer. Inhalation of dust from these materials above established or recommended exposure levels should be avoided through engineering or administrative controls or the use of a NIOSH and/or MSHA approved respirator.

Carcinogen Status:

The following carcinogenicity classifications for crystalline silica have been established by the following agencies:

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11. TOXICOLOGICAL INFORMATION

OSHA: Not regulated as a carcinogen

IARC: Group 1 carcinogenic in humans

NIOSH: Carcinogen, with no further categorization

NTP: Known carcinogen

12. ECOLOGICAL INFORMATION

There are no known environmental impacts.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods:

Dispose of waste in accordance with all applicable laws and regulations. State specific and Community specific provisions must be considered. It is recommended that waste minimization be practiced.

14. TRANSPORT INFORMATION

This material is not regulated for transportation as a hazardous material/dangerous good.

DOT: Units as shipped are not hazardous materials per DOT regulations.

15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

RCRA, CWA, CAA:

Concrete in its solid form is typically considered a non-hazardous waste for disposal. Local regulation may vary, therefore, all waste must be disposed/recycled/reclaimed in accordance with federal, state, and local environmental control regulations. Water containing block solids should be managed in accordance with federal, state and local environmental regulations.

Canada:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

US:

SDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

California Proposition 65:

This product contains Crystalline Silica, Quartz 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.

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15. REGULATORY INFORMATION

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

SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

CP65 **California Proposition 65**

OSHA (O) **Occupational Safety and Health Administration.**

ACGIH (G) **American Conference of Governmental Industrial Hygienists.**

- A1 - Confirmed human carcinogen.
- A2 - Suspected human carcinogen.
- A3 - Animal carcinogen.
- A4 - Not classifiable as a human carcinogen.
- A5 - Not suspected as a human carcinogen.

NTP (N) **National Toxicology Program**

- 1-Known to be carcinogens
- 2-Reasonable anticipated to be carcinogens

IARC (I) **International Agency for Research on Cancer**

- 2A - The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.
- 2B - The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals.
- 3 - The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.
- 4 - The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.

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16. OTHER INFORMATION

Brampton Brick Limited considers our product an "article" as defined in 30 CFRR 1200(b)(g)(iv) and 40 CFR 372.38. As an article, an SDS is not required and the product is exempt from all other requirements of the hazard communication standard. OSHA requires an SDS for concrete units because it is occasionally dry sawed. We recommend only wet sawing of blocks.

Data Sources: The data contained in this SDS may have been gathered from confidential internal sources, raw material suppliers, or from the published literature.

Reasons for Revision: Converted MSDS to SDS.

Prepared by: Brampton Brick Limited

This SDS was prepared with information believed accurate at the time of preparation and was prepared and provided in good faith. However, Brampton Brick Limited. assumes no responsibility as to the accuracy or suitability of such information and no warranty expressed or implied is made.

End of Safety Data Sheet
