



SAFETY DATA SHEET



Revision date: 29-May-2015

Page 1 of 6

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

Product Identifier

Product Names:

Pavers, Interlocking Paving Stones, Retaining Wall Units, Garden Wall Units, Precast Pavers, Precast Slabs, Erosion Control Slabs, Pool Coping, Masonry Units, Window Sills, Keystones
Note: This SDS covers many products.

Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Intended Use:

Construction materials used in paving or masonry applications

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, comes in wide range of colours and textures.

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.

SAFETY DATA SHEET

Material Name: Concrete Units

Page 2 of 9

Revision date: 29-May-2015

2. HAZARDS IDENTIFICATION

Not applicable.

Pictograms:



Precautionary Statements:

Do not breathe dust if dry sawing/cutting.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS Number	% Weight
Portland Cement	65997-15-1	10 - 20
Amorphous Silica, Hydrated	7631-86-9	30 - 60
Aluminum Oxide	1344-28-1	10 - 30
Iron Oxide	1309-37-1	5 - 30
Calcium Oxide	1305-78-8	1 - 25
Carbon	7440-44-0	0 - 10
Crystalline Silica	14808-60-7	0 - 10
Magnesium Oxide	1309-48-4	0 - 5
Titanium Oxide	13463-67-7	0 - 2
Admixtures (organic and inorganic)	Not available	0.1 - 1

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. This SDS covers many products. Individual composition of hazardous constituents will vary.

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.

SAFETY DATA SHEET

Material Name: Concrete Units

Page 3 of 9

Revision date: 29-May-2015

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

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 Products: No data available

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.

SAFETY DATA SHEET

Material Name: Concrete Units

Page 4 of 9

Revision date: 29-May-2015

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
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)		
Amorphous Silica, Hydrated	80 mg/m ³ /%SiO ₂	3 mg/m ³
(Respirable Particulate)		10 mg/m ³
(Inhalable Particulate)		
Iron Oxide	10 mg/m ³	5 mg/m ³
Calcium Oxide	5 mg/m ³	2 mg/m ³
Calcium Carbonate		
(Respirable Particulate)	5 mg/m ³	
(Inhalable Particulate)	15 mg/m ³	10 mg/m ³
Magnesium Oxide	15 mg/m ³	10 mg/m ³

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.

Personal Protective Equipment: NIOSH and/or MSHA approved respirator.

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		

Revision date: 29-May-2015

9. PHYSICAL AND CHEMICAL PROPERTIES

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

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.

Revision date: 29-May-2015

11. TOXICOLOGICAL INFORMATION

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:

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

Revision date: 29-May-2015

15. REGULATORY INFORMATION**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 concrete 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.

SAFETY DATA SHEET

Material Name: Concrete Units

Page 8 of 9

Revision date: 29-May-2015

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.

Material Name: Concrete Units

Page 9 of 9

Revision date: 29-May-2015

16. OTHER INFORMATION

Brampton Brick Limited considers our product an "article" as defined in 30 CFR 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 concrete units.

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
