SAFETY DATA SHEET

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

Product Identifier

Material Name: **Brick**

Trade Name: Brick
Chemical Family: Predominately Aluminum Silicates
Formula: Mixture

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

Intended Use: Non-Structural Facing Brick

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: Granular, brick-shaped Solid; comes in wide range of colors

Hazard Classification of the Substance or Mixture:
Skin Irritation 2
Eye Irritation 2A
Skin Sensitization 1B
Carcinogenicity 1A
Specific target organ toxicity – Single Exposure 3
Specific target organ toxicity – Repeated exposure 1

Signal Word: **Warning**

Hazard Statement: Brick 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.

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS Number	% Weight
Aluminum Silicates	Various	50 – 85
Quartz	14808-60-7	Varies

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. Elements such as aluminum, arsenic, boron, calcium, chromium, cobalt, copper, lead, molybdenum, nickel, tin, titanium, vanadium, and zirconium may be present in trace amounts. Brick products as shipped do not present an exposure hazard.

4. FIRST AID MEASURES

Description of First Aid Measures

Eye Contact: Flush with running water for approximately 15 minutes, if necessary. Obtain medical assistance if irritation continues.

Skin Contact: Wash with soap and water. If an allergic reaction causes a rash that does not heal within a few days consult a physician. Treat abrasions using normal first aid procedures.

Ingestion: None (no known acute effects).

Inhalation: Remove from exposure to airborne particulates. Consult a physician if breathing does not return to normal.

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

Extinguishing Media: Not applicable

Special Hazards Arising from the Substance or Mixture

Hazardous Combustion Products: No data available

Fire / Explosion Hazards: Bricks 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 Protective Equipment (PPE) recommended in Section 8.

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 bricks.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions: Always stack and store bricks in a stable manner to avoid falling hazards

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Aluminum Silicates

OSHA PEL	15 mg/m^3
ACGIH TLV	10 mg/m^3

Quartz

OSHA PEL	10 / (%SiO_2 + 2) mg/m^3
ACGIH TLV	0.025 mg/m^3 (respirable)

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 bricks must be cut.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Granular Solid
Color: Bricks come in a wide range of colors
Odor: No data available
Odor Threshold: No data available
Molecular Formula: Mixture
Molecular Weight: Mixture

Solvent Solubility: No data available
Water Solubility: Negligible
pH: No data available.
Melting/Freezing Point (°C): NA
Boiling Point (°C): NA
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

Flammablity:
- **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: Bricks as shipped are not reactive
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

Effects of Short Term and Long Term Exposure:

Short Term

11. TOXICOLOGICAL INFORMATION

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

Eye: May cause irritation by abrasion with airborne dust.

Skin: Brick Dust or chips may cause allergic reactions in hypersensitive individuals.

Inhalation: Brick Dust or chips may cause congestion and irritation in nasal and respiratory passages.

Ingestion: No known acute effects.

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. Clay, shale and other earthen 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: Bricks 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:	Brick 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 brick solids should be managed in accordance with federal, state and local environmental regulations.
EPCRA Section 311/312:	Brick as shipped are not a Section 311/312 reportable product.
EPCRA Section 313:	Brick as shipped are not subject to the Section 313, Toxic Chemical Release Inventory reporting requirements.
DOT:	Brick as shipped are not hazardous materials per DOT regulations.

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 brick because it is occasionally dry sawed. We recommend only wet sawing of brick.

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