

SAFETY DATA SHEET

Revision date: 18-April-2019

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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: Building material used for structural support.

Supplier of the Safety Data Sheet

Glen-Gery Corporation
1166 Spring Street
Wyomissing, PA 19610-6001
Product Support/Technical Services Phone: (610) 562-3076

Emergency telephone number:
Corporate Office: (610) 374-4011
Technical Services: (610) 562-3076
Contact E-Mail: GGTech@GlenGery.com

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: Danger

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:



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2. HAZARDS IDENTIFICATION

Precautionary Statements:

Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Use only outdoors or in a well-ventilated area. Do not breathe dust.

Response:

If exposed or concerned: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If brick dust is inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.

Storage:

Not Applicable

Disposal:

Dispose of unused or unwanted brick products in accordance with all local, regional, national and international regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredient | CAS Number | % Weight |
|---|------------|----------|
| Aluminum Silicates | Various | 50 – 85 |
| Quartz | 14808-60-7 | Varies |
| Chromium compounds | Various | 0 – 3 |
| Manganese compounds | Various | 0 – 3 |
| Iron Compounds as granular body additives | Various | 0 – 3 |
| Calcium compounds | Various | 0 – 3 |

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. Obtain medical assistance if irritation continues.

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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 as any other scrape or cut with disinfectants and bandages.

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 any 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.

Specific Treatments: In case of accident or if you feel unwell, seek medical advice 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 protection recommended in Section 8.

Emergency Procedures

Not applicable.

Methods and Material for Containment and Cleaning Up

Not applicable.

Cleanup Procedures

Not applicable.

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7. HANDLING AND STORAGE

Precautions for Safe Handling

Minimize dust generation and accumulation. Avoid breathing dust. Use wet methods, especially when cutting brick to reduce the generation of dust.

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/m³
ACGIH TLV 10 mg/m³

Quartz

OSHA PEL 0.05 mg/m³ (respirable) calculated as an 8-hour TWA
ACGIH TLV 0.025 mg/m³ (respirable)

Chromium Compounds

OSHA PEL Not available
ACGIH TLV Not available

Manganese Compounds

OSHA PEL Not available
ACGIH TLV Not available

Iron Compounds as granular body additives

OSHA PEL Not available
ACGIH TLV Not available

Calcium Compounds

OSHA PEL Not available
ACGIH TLV Not available

Exposure Controls

Engineering Controls: Provide adequate ventilation to maintain exposures below the OSHA PEL and ACGIH TLV for quartz and other substances.

Personal Protective Equipment: Refer to applicable national standards and regulations in the selection and use of personal protective equipment (PPE).

Feet: Use of steel toe shoes is recommended when handling brick.

Eyes and Face: Face shields should be used when sawing brick.

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.

Other: Use of wet sawing methods is recommended anytime that bricks must be cut.

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9. PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|---|----------------------|--------------------------|---------------------------------------|
| Physical State: | Granular solid | Color: | Bricks come in a wide range of colors |
| Odor: | Essentially odorless | 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): | 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): | No data available | | |
| Vapor Density (g/ml): | No data available | | |
| 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: | 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

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

Eye: May cause irritation by abrasion with dust or chips.

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11. TOXICOLOGICAL INFORMATION

Skin: Brick dust or chips may cause allergic reactions in hypersensitive individuals; May cause cuts and skin abrasions.

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. Brick dust may contain crystalline silica, a chemical that has been determined by certain agencies to cause cancer and other chemicals known to cause cancer, birth defects and other reproductive harm. Inhalation of brick dust above established or recommended exposure levels should be avoided by use of wet sawing or shaping and/or 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. No ecological consideration when used according to directions.

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 | Brick in its solid form is typically considered a non-hazardous waste for disposal, but 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, such as from wet sawing operations, should also be disposed of in accordance with federal, state and local environmental regulation. Brick waste should not be used as a blasting agent. |
| EPCRA Section 311/312: | Bricks as shipped are not a Section 311/312 reportable product. |
| EPCRA Section 313: | Bricks as shipped are not subject to the Section 313, Toxic Chemical Release Inventory reporting requirements. |
| DOT: | Bricks as shipped are not hazardous materials per DOT regulations. |
| California Proposition 65: |  WARNING: This product contains crystalline silica, a substance known to the State of California to cause cancer. This product may contain trace amounts of heavy metals known to the State of California to cause cancer, birth defects, or other reproductive harm. For more information go to www.P65Warnings.ca.gov . |

16. OTHER INFORMATION

Glen-Gery Corporation 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 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: | Updated Technical Contact Email and company logo. |
| Prepared by: | The Glen-Gery Corporation |

This SDS was prepared with information believed accurate at the time of preparation and was prepared and provided in good faith. However, the Glen-Gery Corporation 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
