

Brick (mixture of clay, shale and other earthen materials)

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Date of issue: 09/12/2019 Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : Brick (mixture of clay, shale and other earthen materials)

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Construction and building materials

1.3. Supplier

Company name **FILL IN**
Street address **FILL IN**
City, state, zip code **FILL IN**
Product Support/Technical Services Phone: **FILL IN**
Contact E-Mail: **FILL IN**

1.4. Emergency telephone number

Emergency number : **FILL IN**

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

Intact bricks are not considered hazardous. Respiratory irritation may occur as a result of brick dust exposure. Furthermore, when breaking, cutting, or grinding brick, fine brick dust containing airborne respirable crystalline silica (RCS) may be generated. RCS may cause lung cancer or cause damage to lungs through prolonged or repeated exposure by inhalation.

GHS classification

Carcinogenicity Category 1A	H350 May cause cancer
Specific target organ toxicity (repeated exposure) Category 1	H372 Causes damage to organs through prolonged or repeated exposure
Full text of H statements : see section 16	

2.2. GHS Label elements, including precautionary statements

GHS labeling

Hazard pictograms (GHS) :



Signal word (GHS) : Danger

Hazard statements (GHS) : Brick dust may contain respirable crystalline silica, a chemical that certain agencies have determined may cause cancer by inhalation. Repeated or prolonged exposure by inhalation may damage lungs.

Precautionary statements (GHS) : P201 - Obtain special instructions before use.

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P202 - Do not handle until all safety precautions have been read and understood.
P260 - Do not breathe dust.
P264 - Wash hands thoroughly after handling.
P270 - Do not eat, drink or smoke in areas where brick dust is present or is being generated.
P280 - In case of dust production, wear respiratory protection, eye protection, face protection.
P308+P313 - If exposed or concerned: Get medical advice/attention. Rinse eyes if dust enters eyes and seek medical attention if eye irritation persists.
P405 - Control access to storage areas with potential for dust exposure.
P501 - Dispose of contents/container in accordance with local, regional, national and/or international regulation

2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification : Dust particles may cause eye irritation by mechanical agitation.

2.4. Unknown acute toxicity (GHS)

65-100 % of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)

65-100 % of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)

65-100 % of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
Aluminum silicate	(CAS-No.) 1327-36-2	50-85%
Silicon dioxide (quartz)	(CAS-No.) 14808-60-7	15-40%

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Dust from this product may cause irritation to the respiratory tract. Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with mild soap and water.

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

First-aid measures after ingestion : Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects : Dust from this product may cause damage to organs (lungs) through prolonged or repeated exposure (Inhalation). May cause cancer (Inhalation).

Symptoms/effects after inhalation : Dust from this product may cause irritation to the respiratory tract.

Symptoms/effects after eye contact : Dust particles may cause eye irritation by mechanical agitation.

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4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : The product is not flammable. Use water spray (fog), foam, dry powder, or carbon dioxide, as appropriate for surrounding fire and materials.

5.2. Specific hazards arising from the chemical

No additional information available

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Do not breathe dust.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Contains no substances known to be hazardous to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product. Minimize generation of dust. Sweep spilled substance into containers only after adding moisture or a dust suppressant; do not dry sweep dust.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not breathe dust. Use wet methods for breaking, cutting, or grinding brick. Avoid dispersal of dust in the air (i.e., do not clear dust from surfaces with compressed air or by dry sweeping). Ensure good ventilation of the work station. Wear personal protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Silicon dioxide (quartz) (14808-60-7)

USA - ACGIH - Occupational Exposure Limits

Local name	Silica, crystalline - quartz
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ACGIH TLV (TWA) (mg/m ³)	0.025 mg/m ³
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Remark (ACGIH)	(respirable particulate matter)
Regulatory reference	ACGIH 2019
USA - OSHA - Occupational Exposure Limits	
Local name	Respirble crystalline silica - quartz
OSHA PEL (TWA) (mg/m ³)	0.050 mg/m ³
OSHA AL (TWA) (mg/m ³)	0.025 mg/m ³
Remark (OSHA)	See 29 CFR 1910.1053, 1915.1053, and 1926.1153

Aluminum silicates	
USA - ACGIH - Occupational Exposure Limits	
Local name	Aluminum, metal and insoluble compounds
ACGIH TWA (mg/m ³)	1.0 mg/m ³
Remark (ACGIH)	(respirable particulate matter)
Regulatory reference	ACGIH 2019

OSHA = Occupational Safety and Health Administration; PEL = Permissible Exposure Limit; TWA = time weighted average (over eight hours); AL = Action Limit; ACGIH = American Conference of Governmental Industrial Hygienists; TLV = Threshold Limit Value; mg/m³ = milligrams per cubic meter of air

8.2. Appropriate engineering controls

Appropriate engineering controls : Use wet methods for breaking, cutting, or grinding brick or to clean up brick dust. Avoid dispersal of dust in the air (i.e, do not clear dust from surfaces with compressed air or by dry sweeping). Ensure good ventilation of the work station.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Dust or chips may cause cuts or abrasions. Wear suitable gloves: leather gloves / cotton gloves

Eye protection:

Dust or chips may cause cuts or abrasions. Wear chemical goggles or safety glasses / face shield during dust generating activities.

Respiratory protection:

If exposure limits may be exceeded due to excessive dust, use NIOSH and/or MSHA approved respirator with High efficiency particulate air filter (HEPA filter).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Bricks
Color	: Shale brick: red, or light brown to blue-black Clay brick: red, black, white to light gray
Odor	: Odorless

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Odor threshold	: Not applicable
pH	: Not applicable
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Relative evaporation rate (butyl acetate=1)	: Not applicable
Flammability (solid, gas)	: Non flammable
Vapor pressure	: Not applicable
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Insoluble in water
Log Pow	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: Not applicable
Explosive properties	: Product is not explosive
Oxidizing properties	: No oxidizing properties

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Unknown acute toxicity (GHS)	65-100 % of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) 65-100 % of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 65-100 % of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))
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Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : May cause cancer (dust) (inhalation).

Silicon dioxide (quartz) (14808-60-7)

IARC group	1 - Carcinogenic to humans (dust by inhalation)
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Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Causes damage to organs (lungs) through prolonged or repeated exposure (Inhalation).
Aspiration hazard : Not classified
Viscosity, kinematic : No data available

Symptoms/effects : Causes damage to organs (lungs) through prolonged or repeated exposure (Inhalation). May cause cancer (Inhalation).
Symptoms/effects after inhalation : Dust from this product may cause irritation to the respiratory tract.
Symptoms/effects after eye contact : Dust particles may cause eye irritation by mechanical irritation.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

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12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with local, regional, national and/or international regulation

SECTION 14: Transport information

Department of Transportation (DOT)

Not regulated.

Transportation of Dangerous Goods

Not regulated.

Transport by sea

Not regulated.

Air transport

Not regulated.

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

15.2. International regulations

CANADA

Silicon dioxide (quartz) (14808-60-7)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

Silicon dioxide (quartz) (14808-60-7)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

Silicon dioxide (quartz) (14808-60-7)

Listed on IARC (International Agency for Research on Cancer)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on Taiwan National Chemical Inventory
Listed on the Korean ECL (Existing Chemicals List)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Inventory of Existing Chemical Substances Produced or Imported in China (IECSC).
Listed on KECL (Korean Existing Chemicals Inventory)

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15.3. US State regulations

⚠ WARNING: This product can expose you to Silicon dioxide (quartz), which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Component	State or local regulations
Silicon dioxide (quartz)(14808-60-7)	U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations; U.S. - New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

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Data sources : US National Library of Medicine National Institutes of Health Haz-Map. Accessed at <http://hazmap.nlm.nih.gov>.
IARC (International Agency for Research on Cancer).
Organisation for Economic Co-operation and Development.
Manufacturer Information.

Full text of H-phrases:

H350	May cause cancer
H372	Causes damage to organs through prolonged or repeated exposure

Abbreviations and acronyms:

ACGIH (American Conference of Government Industrial Hygienists)
AL: Action Limit
CAS (Chemical Abstracts Service) number
GHS: Globally Harmonized System (of Classification and Labeling of Chemicals)
IARC :International Agency for Research on Cancer
LD50: Lethal Dose for 50% of the test population
mg/m ³ : milligrams per cubic meter of air
OSHA: Occupational Safety & Health Administration
PEL: Permissible Exposure Limit
TLV: Threshold Limit Value
TWA: Time Weighted Average

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.