

ACME BRICK COMPANY  
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BRICK MATERIAL SAFETY DATA SHEET

Date Prepared: 09-01-91  
Latest Revision: 05-01-06

SECTION I - PRODUCT IDENTIFICATION

Product Name: Brick  
Chemical Family: Mixed Aluminosilicate  
Formula: Complex Mixture

SECTION II - HAZARDOUS INGREDIENTS

Ingredients	CAS #	% Weight	Exposure Limits	
			OSHA PEL mg/m <sup>3</sup>	ACGIH TLV mg/m <sup>3</sup>
Aluminosilicates	Various	> 85	15	10
*Quartz (Crystalline Silica)	14808-60-7	Varies	1 (TWA) (respirable)	.025 (TWA) (respirable)

(BRICK MAY CONTAIN LOW CONCENTRATION OF OTHER OXIDES.)

\* ACGIH RECOMMENDS A MAXIMUM PERMISSIBLE CONCENTRATION OF 0.025 mg/m3 OF RESPIRABLE CRYSTALLINE SILICA AS DETERMINED BY A FULL-SHIFT SAMPLE UP TO 10 HOURS WORKING DAY, 40 HOUR WORK WEEK.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Appearance and Odor: Shaped solid, odorless. Bricks come in a wide range of body and surface colors.

Boiling Point: NA      Evaporation Rate (T=Ethyl Ether = 1)      Specific Gravity: H2O=1: 2.6 (Approximate)  
Percent Volatile: NA      pH: NA  
Vapor Pressure: NA      Vapor Density: NA      Solubility in Water: Negligible

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

SECTION V - REACTIVITY

Flash Point: NA      Flammable limits (% By Volume in Air): LEL- NA / UEL- NA      Reactivity: NA  
Fire Extinguishing Media: NA      Fire and Explosion Hazards: NA  
Special Fire Fighting Procedures: NA

SECTION VI - HEALTH HAZARD DATA

Bricks as shipped, do not present an inhalation or ingestion hazard. A contact hazard does exist from flying chips or particles, sharp edges, crushed toes, etc. However, operations such as sawing and grinding may release particulates of chips that could have the following adverse effect:

ACUTE EFFECTS OF OVEREXPOSURE:

**Eye:** May cause mild to severe irritation by abrasion with dust or chips.  
**Skin:** Brick dust or chips may cause allergic reactions. Excessive exposure may result in abrasions.  
**Inhalation:** Brick dust or chips may cause congestion and irritation in nasal and respiratory passages.  
**Ingestion:** No known acute effects.

CHRONIC EFFECTS OF OVEREXPOSURE:

Excessive exposures to respirable brick dust created by sawing, drilling, grinding or crushing of bricks, or created by the cleanup and disposal of brick dusts and waste may over an extended period of time, result in the development of permanent and irreversible lung diseases, such as silicosis, tuberculosis, or lung cancer. The higher the crystalline silica content of the dust, the greater the health risk. Breathing brick dust may be associated with the development of scleroderma and kidney lesions and may aggravate existing respiratory conditions such as asthma, bronchitis and emphysema.

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

**OSHA:** Non-regulated

**IARAC:** Carcinogenic

**NTP:** Carcinogenic

**WARNING:** Brick dust contains crystalline silica, a chemical that has been determined by IARC and NTP to cause cancer. Inhalation of brick dust above established or recommended exposure levels should be avoided by use of wet sawing and/or use of a NIOSH and/or MSHA approved respirator.

## SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

**Respiratory Protection:** Provide adequate ventilation to maintain exposures below the components listed in Section II with established PEL's or TLV's.

**Other Protective Equipment:** For airborne concentration exceeding the OSHA PEL or ACGIH TLV use a NIOSH and/or MSHA approved respirator.

**Other controls:** Eye and Face: Face shields should be used when sawing brick. Safety glasses with side shields may be required when chipping or breaking brick with a tool, grinding brick or other activities that release flying particulate.  
Skin: Use gloves and/or protective clothing if cuts, abrasions or allergic reactions are experienced.  
Other: Use of steel toe shoes is recommended when handling brick.

## SECTION VIII - CONTROL MEASURES

Use of wet sawing methods is recommended anytime that bricks must be cut. Always stack and store bricks in a stable manner to avoid falling hazards

## SECTION IX - FIRST AID AND MEDICAL

**Skin:** 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.

**Eye:** Flush with running water. Obtain medical assistance if irritation continues.

## SECTION X - OTHER REGULATIONS

**RCRASARA:** Disposal must be in accordance with federal, state & local regulations.

Brick in 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 be disposed of in accordance with federal, state and local environmental regulations. Brick waste should not be used as an abrasive blasting agent.

**DOT:** Bricks, as shipped, are not a Section 313 (Form R) reportable product.

## SECTION XI - OTHER INFORMATION

Acme Brick Company considers our product an "article" as defined in 29CFR 1910.1200(b)(6)(V) and 1920.1200(c).

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