

# MATERIAL SAFETY DATA SHEET

## A.. MANUFACTURER/DISTRIBUTOR

Sioux City Brick and Tile Company  
PO Box 807  
Sioux City, Iowa 51102  
Contact: Dave Clausen Phone No. 712-943-5581, ext. 209

## B. PRODUCT IDENTIFICATION

PRODUCT NAME: BRICK                      CHEMICAL NAME: MIXTURE  
CHEMICAL FAMILY: PREDOMINATELY ALUMINUM SILICATES                      FORMULA: MIXTURE

## C. PRODUCT COMPONENT(S)

Components	Cas No.	%/Weight	ACGIH TLV	OSHA PEL
Aluminum Silicates	various	75 – 85	10MG/M <sup>3</sup>	15 MG/M <sup>3</sup>
Iron Compounds	various	0 - 5	10 MG/M <sup>3</sup>	10 MG/M <sup>3</sup>
Calcium Compounds	various	0 – 12	15 MG/M <sup>3</sup>	15 MG/M <sup>3</sup>
Quartz	14808-60-7	VARIES	0.1 MG/M <sup>3</sup> Respirable	10 MG/M <sup>3</sup> %S10 <sub>2</sub> +2(Respirable)
Barium Compounds	various	0 - 3	NE	NE
Iron Chromite	1308-31-2	0 - 3	1 MG/M <sup>3</sup>	1 MG/M <sup>3</sup>
Manganese Compounds	various	0 - 3	NE	NE

## D. PERSONAL PROTECTION INFORMATION

**Ventilation:** When sawing brick, use adequate ventilation to maintain exposure below the OSHA PEL and ACGIH TLV.  
**Respiratory Protection:** For concentrations exceeding the OSHA PEL or ACGIH TLV, use NIOSH/MSHA approved respirator.  
**Eye Protection:** Use safety glasses with side shields.  
**Skin Protection:** Use gloves and/or protective clothing if abrasion or allergic reactions are experienced.  
**Wet Sawing:** It is recommended that this product be wet sawed to avoid exposure to silica dust.  
**Other:** Wear steel toed shoes.

## E. HANDLING AND STORAGE PRECAUTIONS

Avoid dust inhalation, eye contact and excessive or prolonged skin contact. Wear protective equipment and/or garments described in Section D if exposure conditions warrant. The primary route of exposure is inhalation.

## F. REACTIVITY DATA

Stability: Stable                      Incompatibility (material to avoid): None known  
Conditions to avoid: None known                      Hazardous polymerization: Will not occur                      Hazardous decomposition products: None known

## G. HEALTH HAZARD DATA

Recommended Exposure Limits:                      See: Section O

Acute effects of overexposure:

**Eye:** May cause mild to severe irritation by abrasion with dust or chips.  
**Skin:** Brick dusts or chips may cause irritation on exposed surfaces.  
**Inhalation:** Brick dusts or chips may cause congestion and irritation in nasal and respiratory passages.  
**Ingestion:** None known.  
**Subchronic and chronic effects of overexposure:** Excessive exposure to particulates (dust) over an extended period of time may result in the development of pulmonary diseases.

Carcinogenicity:: NTP and OSHA do not include this material, or its components, in their carcinogen listings. IARC has classed respirable crystalline silica (quartz) as a class 2A carcinogen.

First aid and emergency Procedures:

**Eye:** Flush eyes with running water, obtain medical assistance if irritation continues.  
**Inhalation:** Remove the person from exposure to airborne particulate. Consult a physician if breathing does not return to normal.  
**Skin:** Wash with soap and water. If an allergic reaction causes a rash that does not heal in an appropriate time, consult a physician. Treat abrasions as any other scrape or cut, with disinfectants and bandages.  
**Medical conditions aggravated by exposure:** Excessive dust exposure may aggravate any existing respiratory disorders or diseases. Possible complications included allergies resulting in irritation to skin, eyes and respiratory passages may occur from excessive exposure to dust.

## H. PHYSICAL DATA

**Appearance/odor:** granular solid, essentially odorless, wide range of color.

**Boiling point:** NA

**Specific gravity:** ( $HE_0 = 1$ ) 2.6 (approximate).

**PH:** NA

**Vapor Pressure:** NA

**Percent volatile by volume:** NA

**Vapor density:** NA

**Solubility in water:** Negligible

**Evaporation Rate:** (ethyl ether = 1): NA

## I. FIRE AND EXPLOSION DATA

**Flash Point:** NA

**Flammable Limits:** (% by volume in air): LEL: NA VEL: NA

**Fire extinguishing media:** NA

**Fire and explosion hazards:** NA

## J. SPILL OR LEAK PROCEDURE

The only concern is the control of dust.

## K. WASTE DISPOSAL

This material is classified as a non-hazardous solid waste for disposal.

## L. RCRA CLASSIFICATION NA

## M. DOT SHIPPING DATA NA

## N. PROTECTION REQUIRED FOR WORK ON CONTAMINATED EQUIPMENT NA

## O. HAZARD CLASSIFICATION

This product meets the following hazard definition(s) as defined by the Occupational Safety and Health Hazard Communication Standard, Section 1910.1200:

<input type="checkbox"/> Combustible Liquid	<input type="checkbox"/> Flammable Aerosol
<input type="checkbox"/> Compressed Gas	<input type="checkbox"/> Explosive
<input type="checkbox"/> Flammable Gas	<input checked="" type="checkbox"/> Health Hazard
<input type="checkbox"/> Flammable Liquid	<input type="checkbox"/> Organic Peroxide
<input type="checkbox"/> Flammable Solid	<input type="checkbox"/> Oxidizer
<input type="checkbox"/> Pyrophoric	<input type="checkbox"/> Unstable
<input type="checkbox"/> Water Reactive	

Based on information presently available, this product does not meet any of the hazard definitions of 29 CFR Section 1910.1200.

## P. SARA (TITLE III) REPORTS

Components of this product that are subject to the reporting requirements of Section 313 of SARA and 40 CFR Part 372: NA

## Q. OTHER INFORMATION

\* Sioux City Brick and Tile Company considers its product an "article" as defined in 29 CFR Part 1200(b)(5)(iv) and 40 CFR Part 372.38. As an article, an MSDS is not required and the product is exempt from all other requirements of the hazardous communication standard. However, OSHA requires an MSDS for brick because it is occasionally dry sawed. With regard to this issue, Sioux City Brick recommends that this product be wet sawed, sawed in area with adequate ventilation to maintain exposure below the OSHA PEL and ACGIH TLV and that NIOSH and/or MSHA approved respiratory protection be used.

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. The purchaser of the product is solely responsible for compliance with all applicable health and safety laws, regulations and orders currently in effect and that may be amended or promulgated in the future.

NA Not applicable

NE Not Established

May 15, 2008