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BLOCK MATERIAL SAFETY DATA SHEET

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SECTION I - PRODUCT IDENTIFICATION

Product Name: Concrete Block **Chemical Family:** Mixed aggregate of sand and cement
Formula: Complex calcium silicate

SECTION II - HAZARDOUS INGREDIENTS

Ingredients	CAS #	% Weight	Exposure Limits	
			OSHA PEL mg/m ³	ACGIH TLV mg/m ³
Portland Cement	65997-15-1	Varies	15	10
*Quartz (Crystalline Silica)	14808-60-7	Varies	.10 (TWA-respirable dust)	.05 (TWA-respirable dust)
Chromium Compounds	Various	0-1	1	1
Fly Ash	Various	0-5	Not established	Not established
Iron Compounds	Various	0-5	10	10
Calcium Carbonate	471-34-1	0-10	15	10

*ACGIH RECOMMENDS A MAXIMUM PERMISSIBLE CONCENTRATION OF 0.05 mg/m³ OF RESPIRABLE CRYSTALLINE SILICA AS DETERMINED BY A FULL-SHIFT SAMPLE UP TO 10 HOUR WORKING DAY, 40 HOUR WORK WEEK.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Appearance and Odor: Shaped solid, odorless. Blocks 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
Fire Extinguishing Media: NA **Fire and Explosion Hazards:** NA
Special Fire Fighting Procedures: NA **Reactivity:** NA

SECTION VI - HEALTH HAZARD DATA

Concrete blocks 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: Concrete block dust or chips may cause allergic reactions. Excessive exposure may result in abrasions.
Inhalation: Concrete block dust or chips may cause congestion and irritation in nasal and respiratory passages.
Ingestion: No known acute effects.

CHRONIC EFFECTS OF OVEREXPOSURE:

Excessive exposure to respirable block dust created by sawing, drilling, grinding or crushing of blocks, or created by the cleanup and disposal of block dusts and wastes, 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 block dust may be associated with the development of scleroderma, rheumatoid arthritis, autoimmune disorders and kidney lesions and may aggravate existing respiratory conditions such as asthma, bronchitis and emphysema.

CARCINOGENICITY:

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

OSHA: Non-regulated
IARC: Carcinogenic
NTP: Carcinogenic

WARNING: Concrete block dust contains crystalline silica, a chemical that has been determined by IARC and NTP to cause cancer. Inhalation of concrete block 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 or dust control measures to maintain exposures below established PEL's or TLV's for the components listed in Section II.
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 blocks. Safety glasses with side shields may be required when chipping or breaking block with a tool, grinding block 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 block.

SECTION VIII - CONTROL MEASURES

Use of wet sawing methods is recommended anytime that block must be cut. Always stack and store blocks 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.
Block 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 block solids, such as from wet sawing operations, should be disposed of in accordance with federal, state and local environmental regulations. Block waste should not be used as an abrasive blasting agent.
DOT: Blocks, 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.