



MIRIBLOC

# SAFETY DATA SHEET

PATIO BLOCK & PATIO BLOCK SYSTEMS (MULTI PIECE)

DATE COMPLETED: 04/30/2018 ||| LATEST REVISION: 05/28/2024

## SECTION 1: IDENTIFICATION

**MANUFACTURER:**

Austin Block + Hardscape, LLC  
7531 North IH-35  
Georgetown, Texas 78626  
TEL: 512-930-1398

**PRODUCT NAME:**

Patio Block & Patio Block System

**CHEMICAL FAMILY:**

Silicon Dioxide, Concrete/Aggregate

**FORMULA:**

Mixture

**PRODUCT USE:**

Building Construction and Landscaping Material

**EMERGENCY INFO:**

Please call 512-930-1398,  
8AM-5PM Monday-Friday

## SECTION 2: HAZARDS IDENTIFICATION



**SIGNAL WORD: WARNING**

Manufactured concrete products as shipped do not present an inhalation, ingestion or contact hazard. However, there is potential hazards associated with cutting, grinding, drilling, splitting or crushing operations that could result in the release of hazardous components contained in generated dust.

**ACUTE EFFECTS OF OVEREXPOSURE**

Contains Crystalline Silica

Eye: May cause irritation by abrasion with dust or chips

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

Inhalation: Concrete 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 particulates (dust) over an extended period of time may result in the development of pulmonary diseases such as silicosis.

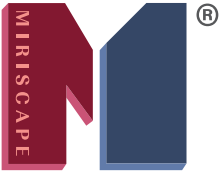
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## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

COMMON NAME	CHEMICAL NAME	CAS NUMBER	PERCENTAGE WEIGHT	EXPOSURE LIMITS
Crushed Stone Composition varies naturally	Calcium Carbonate (CaCO3)	471-34-1	60-92	OSHA PEL = 15MG/M
Natural River Sands	Crystalline Silica, Quartz (SiO2)	14808-60-7	25-85	OSHA PEL = 50UG/M3
Expanded Shale & Clay	Shale & Clay	68334-37-2	0-60	OSHA PEL = 15MG/M3
Fly Ash	Type C Fly Ash	68131-74-8	0-5	OSHA PEL TWA 15MG/M3
Cement	Portland Cement	659997-15-1	8-22	OSHA PEL TWA 50 MPPCF

Other Limits Recommended: National Institute for Occupational Safety and Health (NIOSH). Recommended standard maximum permissible concentration = 0.05 mg/M3 (respirable free silica) as determined by a full-shift sample up to 10-hour work week. See NIOSH Criteria for a Recommended Standard Occupational Exposure to Crystalline Silica.

## SECTION 4: FIRST-AID MEASURES

### INHALATION

Remove from exposure to airborne particulates. 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 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.

### 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. Dry sawing or grinding of concrete masonry products may result in the release of respirable crystalline quartz. Prolonged exposure to respirable crystalline quartz may cause delayed (Chronic) lung injury (Silicosis). Acute or rapidly developing silicosis may occur in a short period of time in heavy exposure. Silicosis is a form of disabling pulmonary fibrosis, which can be progressive and may lead to death.

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## SECTION 5: FIRE FIGHTING MEASURES

Concrete products are not flammable.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

Concrete products do not present a human or environmental hazard that requires special clean-up measures.

## SECTION 7: HANDLING AND STORAGE

When cutting, grinding, drilling, splitting, or crushing, provide adequate ventilation to maintain exposures below the **OSHA PEL** and **ACGIH TLV** for quartz and other substances.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

When cutting, grinding, drilling, splitting, or crushing, provide adequate ventilation to maintain exposures below the **OSHA PEL** and **ACGIH TLV** for quartz and other substances.

### RESPIRATORY PROTECTION

For airborne concentration exceeding the OSHA PEL or ACGIH TLV use a NIOSH and/or MSHA approved respirator.

### EYE AND FACE PROTECTION

Face shields should be used when sawing concrete products.

### SKIN PROTECTION

Use gloves and or protective clothing if abrasions or allergic reactions are experienced. Use of steel toe shoes is recommended when handling concrete products.

### OTHER CONTROLS

Use of wet sawing methods is recommended anytime that concrete products must be cut.

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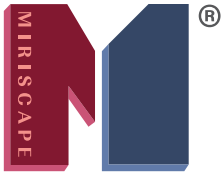
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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: N/A  
Vapor Pressure: N/A

Melting Point: N/A  
Vapor Density: N/A

Specific Gravity: 1.9-2.4  
Soluble In Water: Negligible

Appearance and Odor: Concrete masonry and hardscape products come in a wide variety of shapes and colors and are essentially odorless.

## SECTION 10: STABILITY AND REACTIVITY

Concrete products are stable inert materials and therefore not reactive.

## SECTION 11: TOXICOLOGICAL INFORMATION

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

**WARNING:** Concrete block dust may contain crystalline silica, a chemical taht has been determined by the agencies listed above to cause cancer.

## SECTION 12: ECOLOGICAL INFORMATION

No data available on concrete or concrete dust generated by cutting, grinding, drilling, splitting or crushing operations.

## SECTION 13: DISPOSAL CONSIDERATIONS

Concrete products 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 concrete block solids, such as from wet sawing operations, should also be disposed of in accordance with federal, state and local environmental regulation.

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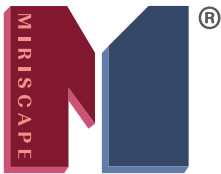
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## SECTION 14: PHYSICAL AND CHEMICAL PROPERTIES

**DOT SHIPPING NAME:** Not regulated by DOT

**DOT HAZARD CLASS:** None

**IDENTIFICATION NUMBER:** None

**CANADA TDG:** Not regulated by TDG

**HAZARD CLASS:** None

**UN NUMBER:** None

## SECTION 15: REGULATORY INFORMATION

### RCRA

Concrete products as are not hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA).

### SARA/EPCRA

Concrete products as are not hazardous substances subject to the federal Emergency Planning and Community Right to know Act (EPCRA) for inventory reporting (SARA 311/312), nor Toxic Release Inventory (SARA 313).

### DOT

Concrete products are not hazardous materials per Department of Transportation (DOT) regulations.

## SECTION 16: OTHER INFORMATION

It is recommended that only cutting, grinding, drilling, splitting or crushing operations be performed with sufficient water to mitigate dust generation.

*This Safety Data Sheet (SDS) has been prepared utilizing information deemed to be accurate at the time of preparation and has been drafted and provided in good faith. Notwithstanding, Austin Block + Hardscape makes no representations or warranties, express or implied, regarding the accuracy, completeness, or suitability of the information contained herein. Austin Block + Hardscape hereby disclaims any and all liability for any loss or damage resulting from the use of, or reliance upon, this information.*



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