

# Safety Data Sheet (SDS)

**Product:** Concrete Masonry Unit (CMU or Block)  
**SDS No:** 001  
**Version No.:** 1.0  
**Preparation Date:** 04/22/2015  
**Revision Date:** Not Applicable (N/A)

## SECTION 1. IDENTIFICATION OF THE MIXTURE AND SUPPLIER

### 1.1 Product Identifier:

**Product name:** Concrete Masonry Unit (CMU or Block)  
**Product code:** Various  
**Formula:** Mixture

### 1.2 Relevant identified uses of the substance or mixture and uses advised against:

**Relevant identified uses:** Construction  
**Uses advised against:** Any use other than those recommended

### 1.3 Details of the supplier of the safety data sheet:

**Manufacturer/Supplier:** A-1 Block Corporation  
**Street Address:** 1617 S Division Ave, Orlando, FL  
**Country ID/Postcode:** USA/32805  
**Customer service telephone:** 407-422-3768  
**E-mail address (competent person):** [Brad@a1block.com](mailto:Brad@a1block.com)

### 1.4 Emergency telephone number:

**Emergency telephone number:** 407-422-3768  
**Hours available:** Monday Thru Friday 5:30am - 5:00pm  
After Hours, dial 911

## SECTION 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the mixture:

Concrete Masonry Units (CMU) are defined by OSHA as an article (under normal conditions, no more than minute or trace amounts of a hazardous chemicals are released and the article does not pose a physical hazard or health risk to employees).

No SDS is required for articles; however, this SDS is provided to communicate hazards associated where activities related to the CMU Block (cutting, grinding, crushing, drilling or breaking) may result in the release of a hazardous substance in DUST.

**GHS Classification(s) for CMU Block according to OSHA Hazard Communication Standard (29 CFR 1910.1200) under normal handling conditions:**

None

**GHS Classification(s) for dust generated from cutting, grinding, crushing, drilling or breaking of CMU Block according to OSHA Hazard Communication Standard (29 CFR 1910.1200) under use conditions that may result in the release of hazardous substances:**

- Skin Corrosion/Irritation, Category 2 (H315)
- Eye Damage/Irritation, Category 2 (H319)
- Specific Target Organ Toxicity-Repeated Exposure (STOT-RE), Category 1 (H372)

**Note:** The CMU dust classifications are based on (1) individual ingredient classifications (i.e., Silica Sand [SiO<sub>2</sub>], Limestone, Portland Cement, Fly Ash, etc.), (2) the final chemical composition of the CMU Block (based on cement chemistry) and (3) the form of the material (dust). Further, the Specific Target Organ Toxicity-Repeated Exposure is a conservative classification based on the potential presence of respirable crystalline silica. Headwaters has not performed analysis for the presence of respirable crystalline silica under these handling conditions.

**Additional information:**

For full text of GHS Hazard statements (H-statements) and associated Precautionary statements (P-statements), see below.

**2.2 Label elements**

**The Hazard Pictograms, Signal Word and Precautionary Statements only apply to activities that may release hazardous substances from the CMU (i.e., cutting / grinding / crushing / drilling / breaking).**

**No Hazard Pictograms, Signal Word or Precautionary Statements are applicable to the CMU Block.**

**Hazard Pictograms that apply to the dust generated from cutting, grinding, crushing, drilling or breaking of the CMU Block:**



**Signal Word:**

Danger

**Hazard Statements:**

**(For CMU Dust  
Generated from Cutting,  
Grinding, Crushing,  
Drilling or Breaking)**

H315: Causes skin irritation.  
H319: Causes eye irritation.  
H372: Causes damage to lungs through prolonged or repeated inhalation exposure.

**Precautionary Statements:**

**(For CMU Dust  
Generated from Cutting,  
Grinding, Crushing,  
Drilling or Breaking)**

P260: Do not breathe dust.  
P270: Do not eat, drink or smoke while using this product.  
P271: Use only outdoors or in a well-ventilated area.  
P264: Wash thoroughly after handling.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P302 + P352: IF ON SKIN: Wash with plenty of water.  
P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P314: Get medical advice/attention if you feel unwell.

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P321: See the SDS for specific treatment.  
P332 + P313: If skin irritation occurs, get medical advice/attention.  
P337 + 313: If eye irritation persists, get medical attention.  
P362 + P364: Take off contaminated clothing and wash before reuse.  
P501: Dispose of generated dust in accordance with local / regional / national / international regulations.

### 2.3 Other hazards related to CMU dust generated from cutting, grinding, crushing, drilling or breaking:

**Listed Carcinogens:** Silica dust (respirable, crystalline fraction) in the form of quartz.

**IARC:** Yes    **NTP:** Yes    **OSHA:** No    **Other:** No (European Union)

**Hazardous Properties:** Dust generated from cutting, grinding, crushing, drilling or breaking may cause eye damage and skin irritation. May be irritating to respiratory tract. Respirable crystalline silica may cause damage to lungs upon repeated inhalation exposures.

## SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

### 3.1 Description of the mixture:

The product is a solid concrete block that, when subjected to cutting, grinding, crushing, drilling or breaking, may form hazardous dusts.

### 3.2 Hazardous Ingredients:

Name	CAS No.	Weight %	GHS Classification per OSHA Hazard Communication (29 CFR 1900.1200)
Silica dioxide (quartz)	14808-60-7	0-90%	STOT-RE, Category 1 (H372)*
Portland Cement	65597-15-1	8-15%	Skin Corrosion/Irritation, Category 2 (H315) Eye Damage/Irritation, Category 1 (H318) STOT-Single Exposure, Category 3 (H335)

\* The Specific Target Organ Toxicity-Repeat Exposure (STOT-RE) is a conservative classification based on the presence/potential presence of respirable crystalline silica.

## SECTION 4. FIRST AID MEASURES

### 4.1 Description of first aid measures:

**Inhalation:** If dust generated from cutting, grinding, crushing, drilling or breaking is inhaled, remove person to fresh air and keep comfortable for breathing. Get medical attention if respiratory symptoms persist.

**Skin contact:** If dust generated from cutting, grinding, crushing, drilling or breaking is on skin, wash with soap and water. Get medical advice/attention if irritation occurs/persists.

**Eye contact:** If dust generated from cutting, grinding, crushing, drilling or breaking is in eyes, rinse cautiously with water for several minutes. Get medical advice/attention if irritation occurs/persists.

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**Ingestion:** No specific first aid measures are required.

**4.2 Most important health effects related to CMU dust generated from cutting, grinding, crushing, drilling or breaking, both acute and delayed:**

**Acute effects:** Direct exposure to dust generated from cutting, grinding, crushing, drilling or breaking may cause eye damage/irritation, skin irritation and respiratory irritation. Dust can dry and irritate the skin and cause dermatitis. Can irritate eyes and skin through mechanical abrasion.

**Delayed effects:** Chronic exposure to inhaled dust generated from cutting, grinding, crushing, drilling or breaking may cause lung damage from repeated exposure. Chronic inhalation of dusts containing free crystalline silica may result in silicosis.

**4.3 Indication of any immediate medical attention and special treatment needed:**

Seek first aid or call a doctor if contact with dust generated from cutting, grinding, crushing, drilling or breaking with eyes occurs and irritation remains after rinsing.

## SECTION 5. FIREFIGHTING MEASURES

**5.1 Extinguishing Media:**

**Suitable extinguishing media:** Product is not flammable. Use extinguishing media appropriate for surrounding fire.

**Unsuitable extinguishing media:** Not applicable; the product is not flammable.

**5.2 Special hazards arising from the substance or mixture:**

**Hazardous combustion products:** None known.

**5.3 Advice for firefighters:**

**Special protective equipment and precautions for firefighters:** As with any fire, wear self-contained breathing apparatus, MSHA/NIOSH (approved or equivalent) and full protective gear.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

**6.1 Personal precautions, protective equipment and emergency procedures associated with CMU dust generated from cutting, grinding, crushing, drilling or breaking:**

**For Non-Emergency Personnel:**

**Protective equipment:** In case of exposure to dust generated from cutting, grinding, crushing, drilling or breaking, wear specified protective equipment. (See Section 8).

**Emergency procedures:** Avoid the creation of dust generated from cutting, grinding, crushing, drilling or breaking. Use scooping, water/flushing/misting or vacuum cleaning systems. Wet methods of cutting, grinding, crushing, drilling or breaking are the preferred method of controlling dust.

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**For Emergency Responders:**

**Protective equipment:** In case of exposure to dust generated from cutting, grinding, crushing, drilling or breaking, wear specified protective equipment. In case of fire, use self-contained breathing apparatus with full face mask.

**6.2 Environmental Precautions**

Discard any product or dust residue in compliance with local regulations.

**6.3 Methods and material for containment and cleaning up:**

**For containment and cleaning up:** After cutting, grinding, crushing, drilling or breaking activities, use scooping, water spraying/flushing/misting or ventilated vacuum cleaning system to clean up dust generated from cutting, grinding, crushing, drilling or breaking. Use closed containers. Do not use pressurized air to clean dust.

**Other information:** Take measures to avoid dust formation during cutting, grinding, crushing, drilling or breaking activities.

**SECTION 7. HANDLING AND STORAGE**

**7.1 Precautions for safe handling:**

**Protective measures:** Avoid contact with dust generated from cutting, grinding, crushing, drilling or breaking with skin, eyes, and clothing. Avoid breathing dust. Wash thoroughly after handling. Wet methods of cutting, grinding, crushing, drilling or breaking are the preferred method of controlling dust.

**Measures to prevent fires:** Not applicable; material is non-flammable.

**Measures to prevent dust generation:** Vacuum, scoop, or use water mist/spray/flush to remove generated dust during cutting, grinding, crushing, drilling or breaking activities. Do not use pressurized air. Wet methods of cutting, grinding, crushing, drilling or breaking are the preferred method of controlling dust.

**Measures to protect the environment:** Not applicable; material is not an environmental hazard.

**Advice on general occupational hygiene:** Practice good housekeeping. Avoid formation of dust generated from cutting, grinding, crushing, drilling or breaking. Do not breathe dust. Use adequate exhaust ventilation, dust collection and/or water mist to maintain airborne dust concentrations below permissible exposure limits. Respirable crystalline silica dust may be in the air without a visible dust cloud. In case of insufficient ventilation, wear a NIOSH approved respirator for silica dust when using, handling, storing or disposing dust from this product. Do not permit dust to collect on walls, floors, sills, ledges, machinery, or equipment. Maintain and test ventilation and dust collection equipment. Wash or vacuum clothing that has become dusty. Avoid eating, smoking, or drinking while handling the material.



**7.2 Conditions for safe storage, including any incompatibilities:**

**Storage conditions:** Minimize dust produced during loading and unloading.

**SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**8.1 Control parameters applicable to CMU dust generated from cutting, grinding, crushing, drilling or breaking:**

**United States**

OCCUPATIONAL EXPOSURE LIMITS FOR HAZARDOUS SUBSTANCES IN THE WORKPLACE					
SUBSTANCE		OSHA PEL TWA / STEL (mg/m <sup>3</sup> )	NIOSH REL TWA / STEL (mg/m <sup>3</sup> )	ACGIH TLV TWA / STEL (mg/m <sup>3</sup> )	CAL - OSHA PEL (mg/m <sup>3</sup> )
Calcium Oxide		5	2	2	-
Crystalline Silica	Total Quartz	30 ÷ (%SiO <sub>2</sub> +2) (Total Quartz)	-	-	0.3
	Respirable Crystalline Silica	10 ÷ (%SiO <sub>2</sub> +2)	0.05	0.025 (α-quartz & cristobalite)	0.1
	Cristobalite	-	0.05	0.025 (α-quartz & cristobalite)	0.05 (respirable)
Particulates Not Otherwise Regulated	Total	15	15	-	10
	Respirable	5	5	-	5

**8.2 Exposure controls:**

**8.2.1. Exposure Controls**

**Engineering controls:**

Ventilation should be adequate to maintain the ambient workplace atmosphere below the exposure limit(s). Use general and local exhaust ventilation and dust collection systems as necessary to minimize exposure to dust generated from cutting, grinding, crushing, drilling or breaking. Wet methods of cutting, grinding, crushing, drilling or breaking are the preferred method of controlling dust.

**8.2.2. Personal Protective Equipment**

**Respiratory protection:**

Wear a NIOSH/MSHA approved particulate respirator if exposure to dust generated from cutting, grinding, crushing, drilling or breaking is unavoidable and where occupational exposure limits may be exceeded. If airborne dust exposures exceed the PEL or TLV, a self-contained breathing apparatus or airline respirator is recommended.

**Eye and face protection:**

If eye contact with dust generated from cutting, grinding, crushing, drilling or breaking is anticipated, wear protective glasses with side shields. Avoid contact lenses.

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**Hand and skin protection:** Wear gloves and protective clothing to minimize skin contact with dust generated from cutting, grinding, crushing, drilling or breaking. Wash hands with soap and water after contact with material.

**Foot protection:** Wear American National Standards Institute (ANSI) approved hard-toed safety shoes when handling CMUs.

### 8.2.3. Environmental Exposure Controls

**Instructions to prevent exposure:** No special requirements. Discard any product or dust residue in compliance with local regulations. Wet methods of cutting, grinding, crushing, drilling or breaking are the preferred method of controlling dust.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties:

Property	Value	Property	Value
<b>Appearance:</b>	Solid Block	<b>Lower Explosive Limit (LEL):</b>	Not applicable
<b>Odor</b>	Odorless	<b>Vapor Pressure (Pa):</b>	Not applicable
<b>Odor threshold</b>	Not applicable	<b>Vapor Density:</b>	Not applicable
<b>pH (25°C):</b>	Not available	<b>Relative Density/Specific Gravity:</b>	2.2 – 2.8
<b>Melting/Freezing Point (°C):</b>	Not applicable	<b>Water Solubility:</b>	Negligible
<b>Initial Boiling Point (°C):</b>	Not applicable	<b>Partition Coefficient: n-octanol/water:</b>	Not applicable
<b>Boiling Range (°C):</b>	Not applicable	<b>Auto-ignition Temperature (°C):</b>	Not applicable
<b>Flash Point(°C):</b>	Not applicable	<b>Decomposition Temperature (°C):</b>	Not available
<b>Evaporation Rate:</b>	Not applicable	<b>Viscosity:</b>	Not applicable
<b>Flammability (solid, gas):</b>	Not combustible	<b>Explosive Properties:</b>	Not applicable
<b>Upper Explosive Limit (UEL):</b>	Not applicable	<b>Oxidizing Properties:</b>	Not applicable

## SECTION 10. STABILITY AND REACTIVITY

<b>10.1 Reactivity</b>	Stable inert material
<b>10.2 Chemical stability</b>	Stable inert material
<b>10.3 Possibility of hazardous reactions</b>	None known.

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<b>10.4</b>	<b>Conditions to avoid</b>	None known
<b>10.5</b>	<b>Incompatible materials</b>	None known
<b>10.6</b>	<b>Hazardous decomposition products</b>	None known

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects:

<b>Acute toxicity:</b>	No data is available on the CMU dust generated from cutting, grinding, crushing, drilling or breaking. No ingredients within the mixture exhibit acute toxicity.
<b>Skin corrosion/irritation:</b>	Contact with dust may cause skin irritation.
<b>Serious eye damage / irritation:</b>	Eye Irritant. Eye contact with dust generated from cutting, grinding, crushing, drilling or breaking may cause eye irritation.
<b>Respiratory or skin sensitization:</b>	No data is available on the CMU dust generated from cutting, grinding, crushing, drilling or breaking. No ingredients exhibit sensitization effects.
<b>Germ cell mutagenicity:</b>	No data is available on the CMU dust generated from cutting, grinding, crushing, drilling or breaking. No ingredients exhibit mutagenic effects.
<b>Carcinogenicity:</b>	No data is available on the CMU dust generated from cutting, grinding, crushing, drilling or breaking. Crystalline silica (respirable) has been identified as a carcinogen by IARC and NTP.
<b>Reproductive toxicity:</b>	No data is available on the CMU dust generated from cutting, grinding, crushing, drilling or breaking. No ingredients exhibit reproductive toxicity.
<b>STOT single exposure:</b>	No data is available on the CMU dust generated from cutting, grinding, crushing or drilling.
<b>STOT repeated exposure:</b>	No data is available on the repeated inhalation of CMU dust generated from cutting, grinding, crushing, drilling or breaking. Repeated inhalation of CMU dust generated from cutting grinding, crushing or breaking may cause lung damage if respirable crystalline silica is present. Crystalline silica (respirable) has been shown to cause silicosis after repeated exposure.
<b>Aspiration hazard:</b>	Not applicable, the material is a not a liquid.

## SECTION 12. ECOLOGICAL INFORMATION

No data available on the CMU dust generated from cutting, grinding, crushing, drilling or breaking.

## SECTION 13. DISPOSAL CONSIDERATIONS

Considered a non-hazardous waste. Follow applicable federal, state and local regulations.



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## SECTION 14. TRANSPORT INFORMATION

### Regulatory Entity

US DOT	Shipping Name	Not regulated
	Hazard Class	Not regulated
	ID Number	Not regulated
	Packing Group	Not regulated

## SECTION 15. REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulations / legislation specific to the mixture:

#### United States Regulations

<b>Toxic Substances Control Act (TSCA) Inventory Status</b>	All components of this product are listed on the TSCA Inventory or are exempt from listing.	
<b>SARA (Section 311/312)</b>	Reactive Hazard	No
	Pressure Hazard	No
	Fire Hazard	No
	Immediate/Acute Toxicity	No
	Delayed/Chronic Toxicity	Yes – respirable crystalline silica
<b>SARA Section 313 Information:</b>	This product does not contain any toxic chemicals listed under 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA).	
<b>Clean Air Act (CAA)</b>	This product does not contain any toxic chemicals listed under the CAA at concentrations greater than 0.1%.	
<b>Volatile Organic Compounds (VOCs)</b>	VOC Content (weight %).	0 wt. %
	Remarks:	Estimated
<b>State Right-to-Know Status</b>	California Prop. 65:	Crystalline Silica.
	Massachusetts:	Silica, Crystalline-Quartz; Calcium oxide; Calcium carbonate (Limestone); Portland cement; Iron oxide dust.
	New Jersey	Silica, Crystalline-Quartz; Calcium oxide; Calcium carbonate (Limestone); Cement, Portland, Chemicals; Iron oxide.
	Pennsylvania:	Quartz (silica dioxide); Calcium oxide; Calcium carbonate (Limestone); Cement, Portland, Chemicals; Iron oxide.

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**Dispose of all waste product and containers in accordance with federal, state and local regulations.**

## SECTION 16. OTHER INFORMATION

### 16.1 Indication of changes:

Initial SDS prepared on 04-07-2015

### 16.2 Abbreviations and acronyms:

ANSI: American National Standards Institute  
CAA: Clean Air Act  
Cal/OSHA: California Department of Industrial Relations - Division of Occupational Safety and Health  
CAS: Chemical Abstract Service Registry Number  
CFR: Code of Federal Regulations  
CMU: Concrete Masonry Unit  
CWA: Clean Water Act  
GHS: Globally Harmonized System of Classification and Labeling  
HMIS: Hazardous Materials Identification System  
IARC: International Agency for Research on Cancer  
LEL: Lower explosive limit  
MSHA: Mine Safety and Health Administration  
NA: Not Applicable  
NIOSH: National Institute of Occupational Safety and Health  
NTP: National Toxicology Program  
OSHA: Occupational Safety and Health Administration  
Pa: Pascal  
PEL: Permissible exposure limit  
SARA: Superfund Amendments and Reauthorization Act  
SDS: Safety data sheet  
STEL: Short-term exposure limit  
STOT-RE: Specific target organ toxicity-repeated exposure  
STOT-SE: Specific target organ toxicity-single exposure  
TLV: Threshold limit value  
TSCA: Toxic Substances Control Act  
TWA: Time-weighted average  
UEL: Upper explosive limit  
USA: United States of America  
US DOT: United States of Department of Transportation  
VOC: Volatile organic compound

### 16.3 Other hazards:

**Hazardous Materials Identification System (HMIS)**

Degree of hazard: 0 = low, 4 = extreme

**Health:** 1\*

**Flammability:** 0

**Reactivity:** 0

*\* Dust generated from cutting, grinding, crushing, drilling or breaking activities may result in a chronic health hazard (Category 3 Health Hazard)*

**Personal Protection:** B

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**Disclaimer:**

*This SDS has been prepared in accordance with the Hazard Communication Rule 29 CFR 1910.1200. Information herein is based on data considered to be accurate as of date prepared. No warranty or representation, express or implied, is made as to the accuracy or completeness of this data and safety information. No responsibility can be assumed for any damage or injury resulting from abnormal use, failure to adhere to recommended practices, or from any hazards inherent in the nature of the product.*

— End of Safety Data Sheet (SDS) —