CMU Safety Data Sheet – Pigmented and Non-Pigmented

Section 1—Identification

Product Name: Concrete Masonry Products (Pigmented and non-Pigmented)

Generic ID: Concrete Masonry Units, Segmental Retaining Walls

Usage and Restrictions: Concrete masonry units are used in the construction of residential and commercial structures as part of a building's envelope and interior walls, and can be used in load-bearing or veneer applications. Segmental retaining wall units are used as a means to retain earth slopes in residential and commercial projects.

Supplier Details: Westbrook Concrete Block Co., Inc.
2074 Boston Post Road
Westbrook, CT 06498

Emergency Phone Number: (860) 399-6201

Section 2—Hazard(s) Identification

GHS Classification:

Carcinogenicity	1A
Eye Irritation	2A
Repeated Exposure Skin Irritation	2
Specific Organ Toxicity	2

GHS Label Elements:

Signal Word: Danger

Hazard Statements: Sawing or grinding may result in release of dust particles which may (acute:) cause minor irritation of the eye or nose. (chronic:) result in lung disease (silicosis) if exposed to excessive amounts for prolonged periods.

Prevention: Wear NIOSH-approved respirator and tight fitting goggles when sawing or grinding.

Response:

If exposed or concerned:	Get medical advice/attention.
If on skin:	Wash with plenty of water. Take off contaminated clothing and wash it before reuse.
If in eyes:	Rinse continuously with water for several minutes. Remove contact lenses, if present and easy to do.

Storage: Store product pallets on stable ground. Do not double-stack pallets.

Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazards not otherwise classified: None known.

Section 3—Composition / Information on Ingredients

Ingredient(s)	UN Number	CAS Number	% (by weight)
Course aggregate	Not available	Not available	15 – 60
Portland cement	Not available	65997-15-1	9 – 31
Ashes/residues	Not available	68131-74-8	0.1 – 30
Water	Not available	7732-18-5	10 – 30
Silica, Quartz, Crystalline	Not available	14808-60-7	3 – 7
Ferric oxide	UN1376	1309-37-1	1 – 5
Calcium carbonate	Not available	1317-65-3	1 – 5
Calcium hydroxide	Not available	1305-62-0	1 – 5
Silica, amorphous, fumed	Not available	7631-86-9	1 – 5
Admixtures	Not available	Not available	0.1 – 1

Section 4—First Aid Measures

Description of Necessary First Aid Measures:

EYE CONTACT: Immediately flush with plenty of water for at least 15 minutes. Hold eyelids apart. Remove contacts if present and easy to do. Beyond flushing, do not attempt to remove material from the eye(s). Get medical attention if irritation develops or PERSISTS.

INHALATION: Move to fresh air. Call a physician if symptoms develop or persist.

SKIN CONTACT: Wash off with soap and water. Get medical ATTENTION if irritation develops and persists.

INGESTION: Rinse mouth and drink plenty of water. Never give anything by mouth to an unconscious person. Get medical attention.

Most Important Symptoms and Effects, both Acute and Delayed:

Inhaling dust may cause discomfort in the chest, shortness of breath, and coughing. Prolonged inhalation may cause chronic health effects. This product contains crystalline silica. Prolonged or repeated inhalation of respirable crystalline silica liberated from this product can cause silicosis, and may cause cancer.

Indication of Immediate Medical Attention and Special Treatment Needed, If Necessary:

EYE CONTACT: Causes serious eye irritation. Symptoms may INCLUDE discomfort or pain, excess blinking and tear production, with possible redness and swelling.

INHALATION: Dust may cause respiratory tract irritation.

SKIN CONTACT: Causes skin irritation. Wear gloves when handling product to avoid drying and mechanical abrasion of the skin. May cause sensitization by skin contact.

INGESTION: Not a normal route of exposure. May result in obstruction and temporary irritation of the digestive tract.

Section 5—Fire Fighting Measures

Extinguishing Media:

SUITABLE EXTINGUISHING MEDIA:	Treat for surrounding material.
UNSUITABLE EXTINGUISHING MEDIA:	Not available
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS:	Use protective equipment appropriate for surrounding materials. No specific precautions.

Section 6—Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear appropriate protective equipment and clothing during clean-up of materials that contain or may release dust.

Methods and Materials for Containment and Cleaning-Up

Spilled material, where dust is generated, may overexpose cleanup personnel to respirable crystalline silica-containing dust. Do not dry sweep or use compressed air for clean-up. Wetting of spilled material and/or use of respiratory protective equipment may be necessary. Avoid discharge of fine particulate matter into drains.

Section 7—Handling And Storage

Precautions for Safe Handling:

HANDLING:	Avoid contact with skin and eyes. Good housekeeping is key to prevent accumulation of dust. Avoid generating and breathing dust. Use wet methods, if appropriate, to reduce the generation of dust. The use of compressed air for cleaning clothing, equipment, etc, is not recommended. Handle with care. When using do not eat or drink. (See section 8)
GENERAL HYGIENE ADVICE:	Launder contaminated clothing before reuse. Wash hands before eating or drinking.
CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:	Avoid dust buildup by frequent cleaning and suitable construction of the storage area.

Section 8—Exposure Controls and Personal Measures

Control Parameters:

occupational exposure limits:
1—Value equivalent to OSHA formulas (29 CFR 1910.1000; 29 CFR 1917; 29 CFR 1918)

2—Value also applies to MSHA metal/Non-Metal (1973 TLVs at 30 CFR 56/57.5001)

3—OSHA enforces 0.250 mg/m3 in construction and shipyards (CPL-03-00-007)

4—Value also applies to OSHA construction (29 CRF 1926.55 Appendix A) and shipyards (29 CFR 1915.1000 Table Z)

5—MSHA limit = 10 mg/m3

Ingredient	OSHA-PEL	ACGIH-TLV
Coarse aggregate	Not available	Not available
Portland cement	15 mg/m³ (total); 5 mg/m³ (resp)	1 mg/m³ (<1% crystalline silica, respirable fraction)
Ashes (residues)	Not available	Not available
Silica, crystalline, quartz	((10 mg/m3)/(%SiO2+2) (resp)) ((30 mg/m3)/(%SiO2+2) (total)) ((250)/(%SiO2+5) mppcf (resp))	0.025 mg/m³
Ferric oxide	10 mg/m³	5 mg/m³ (iron oxide fume; dust as Fe)
Calcium carbonate	15 mg/m³ (total); 5 mg/m³ (resp)	10 mg/m³
Calcium hydroxide	15 mg/m³ (total); 5 mg/m³ (resp)	5 mg/m³
Silica, amorphous	80 mg/m³/%SiO2	10 mg/m³
Admixtures	Not available	Not available.

engineering controls: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

exposure guidelines: OSHA PELs, MSHA PELs, and ACGIH TLVs are 8-hr TWA values. NIOSH RELs are for TWA exposures up to 10-hr/day and 40-hr/wk. Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.

Individual Protective Measures:

HYGIENE MEASURES: Observe good hygiene, such as washing after handling the material and before eating and drinking. Routinely wash work clothing and protective equipment.

EYE/FACE PROTECTION: Wear safety glasses with side shields (or goggles).

HAND/BODY PROTECTION: Use personal protective equipment as required.

HAND/BODY PROTECTION: When performing work that produces dust or respirable crystalline silica in excess of applicable exposure limits, wear a NIOSH-approved respirator that is properly fitted and is in good condition. Respirators must be used in accordance with all applicable workplace regulations.

Section 9—Physical And Chemical Properties

Appearance:

APPEARANCE:	Fully cured and hydrated concrete
COLOR:	Not available. Varies
ODOR:	Odorless
ODOR THRESHOLD:	Not applicable
PHYSICAL STATE:	Solid
PH:	Not applicable
MELTING/FREEZING POINT:	Not applicable
BOILING POINT:	Not applicable
FLASH POINT:	Not applicable
EVAPORATION RATE:	Not applicable
FLAMMABILITY:	Not flammable
LOWER FLAMMABILITY/EXPLOSIVE LIMIT:	Not applicable
UPPER FLAMMABILITY/EXPLOSIVE LIMIT:	Not applicable
VAPOR PRESSURE:	Not applicable
VAPOR DENSITY:	Not applicable
RELATIVE DENSITY/SPECIFIC GRAVITY:	Not applicable
SOLUBILITY:	Insoluble
PARTITION COEFFICIENT: N-OCTINOL/WATER:	Not applicable
AUTO-IGNITION TEMPERATURE:	Not applicable
DECOMPOSITION TEMPERATURE:	Not applicable
VISCOSITY:	Not applicable
SADT:	Not applicable
OXIDIZING PROPERTIES:	Not applicable
EXPLOSIVE PROPERTIES:	Not applicable

Section 10—Stability and Reactivity

Reactivity:	Product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical Stability:	Material is stable under normal conditions.
Hazardous Reaction Possibility:	No dangerous reaction known under conditions of normal use.
Conditions to Avoid:	None known
Incompatible Materials:	None known
Hazardous Decomposition:	None known

Section 11—Toxicological Information

Information on Toxicological Effects

ACUTE TOXICITY:		Not expected to be acutely toxic.
IRRITATION/CORROSION:	*Skin:*	Causes skin irritation. Wear gloves when handling product to avoid drying and mechanical abrasion of the skin. May cause sensitization by skin contact.
	Eyes:	Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
	Ingestion:	Not likely due to product form. However accidental ingestion may cause discomfort.
	Inhalation:	Dust may cause respiratory tract irritation.
SENSITIZATION:	*Respiratory Sensitization:*	No respiratory sensitizing effects known. Skin sensitization: Not known to be a dermal irritant or sensitizer.
MUTAGENICITY:		No data available to indicate product or any components present at greater than 0.1% ARE MUTAGENIC OR GENOTOXIC.
ASPIRATION HAZARD:		NOT EXPECTED TO BE AN ASPIRATION HAZARD.
REPRODUCTIVE TOXICITY:		Not expected to be a reproductive hazard.
SYMPTOMS:	*Dust:*	Discomfort in the chest. Shortness of breath. Coughing.
CARCINOGENICITY:		Respirable crystalline silica has been classified by IARC and NTP as a known human carcinogen, and classified by ACGIH as a suspected human carcinogen.

Acute Toxicity:

Ingredient	IDLH	LC50	LD50
Coarse aggregate	Not available	Not available	Not available
Portland cement	5000 mg/m3	Not available	Not available.
Ashes (residues)	Not available	Not available	Oral > 2000 mg/kg, rat
Water	Not available	Inhalation 90000 mg/m³/4h, rat	Oral >90000 mg/kg, rat Dermal >90000 mg/kg, rabbit
Silica, crystalline, quartz	Ca [25 mg/m3 (cristobalite, tridymite); 50 mg/m3 (quartz, tripoli)]	Not available	Oral 500 mg/kg, rat
Ferric oxide	2500 mg Fe /m3	Not available	Oral >10000 mg/kg, rat
Calcium carbonate	Not available	Not available	Oral 6450 mg/kg, rat
Calcium hydroxide	Not available	Not available	Oral 7340 mg/kg, rat
Silica, amorphous	Not available	Inhalation 58.8 mg/l/1h, rat	Oral >5000 mg/kg, rat Dermal >2000 mg/kg, rabbit
Admixtures	Not available	Not available	Not available.

Section 12—Ecological Information

Ecotoxicity: No ecological consideration when used according to directions.

Persistence and degradability: Not applicable

Bioaccumulative potential: Not applicable

Mobility in soil: Not applicable

Other adverse effects: No other adverse environmental effects (e.g., ozone depletion, photochemical ozone creation potential, global warming potential) are expected from this component.

Section 13—Disposal Considerations

Disposal Methods: Do not allow fine particulate matter to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with fine particulates. Dispose of contents in accordance with local/regional/national/international regulations.

Hazardous Waste Code: Not regulated

Waste From Residues/Unused Products: Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.

Section 14—Transportation Information

	DOT Classification	TDG	NOM-004-SCT2-1994
UN Number	Not regulated	Not regulated	Not regulated
UN Proper Shipping Name	Not applicable	Not applicable	Not applicable
Transport Hazard Class(es)	Not applicable	Not applicable	Not applicable
Packing Group	Not applicable	Not applicable	Not applicable
Environmental Hazards	Not available		

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not available.

Section 15—REGULATORY INFORMATION

Safety, Health and Environmental Regulations/Legislations Specific for the Chemical:

US: SDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

SARA Title III:

Ingredient	Section 302 (EHS) TPQ (lbs.)	Section 304 EHS RQ (lbs.)	CERCLA RQ (lbs.)	Section 313
Coarse aggregate	Not listed	Not listed	Not listed	Not listed
Portland cement	Not listed.	Not listed	Not listed	Not listed
Ashes (residues)	Not listed	Not listed	Not listed	Not listed
Water	Not listed	Not listed	Not listed	Not listed
Silica, crystalline, quartz	Not listed	Not listed	Not listed	Not listed
Ferric oxide	Not listed	Not listed	Not listed	Not listed
Calcium carbonate	Not listed	Not listed	Not listed	Not listed
Calcium hydroxide	Not listed	Not listed	Not listed	Not listed
Silica, amorphous	Not listed	Not listed	Not listed	Not listed
Admixtures	Not listed.	Not listed	Not listed	Not listed

Source Agency Carcinogen Classifications:

CP65		California Proposition 65
OSHA (O)		Occupational Safety and Health Administration.
ACGIH (G)		American Conference of Governmental Industrial Hygienists
	A1	Confirmed human carcinogen.
	A2	Suspected human carcinogen.
	A3	Animal carcinogen.
	A4	Not classifiable as a human carcinogen.
	A5	Not suspected as a human carcinogen.
IARC (I)		International Agency for Research on Cancer.
	1	The agent (mixture) is carcinogenic to humans.
	2*A*	The agent (mixture) is probably carcinogenic to humans; there is limited evidence carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.
	2*B*	The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals.
	3	The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.
	4	The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.
NTP (N)		National Toxicology Program.
	1	Known to be carcinogens.
	2	Reasonably anticipated to be carcinogens.

Section 16—OTHER INFORMATION

Date of Preparation:	06-01-26
Expiration Date:	None
Version:	1.0
Revision Date:	N/A
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