

Amcon Concrete Products, LLC
A TCC Materials Company
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Emergency Telephone Number:
800-424-9300 (CHEMTREC)
Information Telephone Number
651-905-8137

Revision Date
February 2020

Section 1: Product Identification

Product Type: Construction material used in building and hardscape applications.

Product Name:

Block, Concrete Block, SRW Units

Section 2: Hazard Identification

Hazard Risk Classification

This product has been evaluated according to GHS and 29CFR1910.1200, Appendix A, and classified as:

- Skin sensitization 1
- Carcinogenicity 1A
- Specific target organ toxicity - Single exposure 3
- Specific target organ toxicity - Repeated exposure 1

Label Elements:

Hazard Pictograms:



Signal Word: Danger.

Hazard Statements:

- May cause an allergic skin reaction.
- Respirable dust may contain crystalline silica, known to cause cancer.
- May cause respiratory irritation.
- Causes damage to lungs through prolonged or repeated exposure.

Precautionary Statements:

Prevention

- Do not eat, drink or smoke when using this product.
- Wash hands and exposed area of face and body with water thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Do not breathe dust.

Response

If exposed or concerned, if eye irritation or skin irritation occurs: Get medical attention.

If on skin: Wash with plenty of water. Take off contaminated clothing and wash before reuse. If skin irritation or rash occurs: Get medical advice/attention.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell.

Storage:

Not applicable.

Disposal:

Dispose of all unused or unwanted concrete products in accordance with all local, state, national, and international regulations.

Supplemental Label Elements:

Hazards not otherwise classified:

This product is classified based on the dust/particulate generated during cutting, crushing, drilling, grinding or any other disruption of the structural integrity of the product. Potential hazards are related to dust exposure including, but not necessarily limited to, acute and chronic health problems. This product may contain metals or other inorganics as reinforcement components. Observe PELs and TLVs for particulates of the following components: Iron, Carbon, Silicon, Aluminum, Arsenic, Boron, Calcium, Chromium, Cobalt, Copper, Lead, Manganese, Molybdenum, and Nickel. Dusts may be generated during cutting or grinding of the products. Certain products may be coated with calcium soaps and/or metal working compounds which should be recognized and considered when evaluating potential health hazards and exposure during dust/fume generating.

Section 3: Hazardous Ingredients/Composition

Ingredient	UN #	H / F / R / *	Cas No	Wt %
Fine aggregate – Silica Dioxide (Silica, Quartz, Crystalline Silica) ³	Not available.	Not available.	14808-60-7	60 – 72
Course aggregate (pea stone and limestone)	Not available.	Not available.	1317-65-3	20 - 28
Portland cement	Not available.	1/0/0	65997-15-1	6 - 10
Ashes (residues)	Not available.	Not available.	69131-74-8	0 – 4
Silica, amorphous, fumed	Not available.	Not available.	7361-86-9	0 – 5
Ferric oxide	UN 1376	1/0/0	1309-37-1	0 – 5
Calcium hydroxide	Not available.	3/0/0	1305-62-0	0 – 5
Admixtures (organic and inorganic)	Not available.	Not available.	Not available.	0.1 - 1

The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

Note:

1. Portland cement and ashes (residues) may contain trace amounts of chemicals including silicates and metals which may be toxic in some forms. These ingredients may include, but are not limited to, Aluminum, Arsenic, Barium, Beryllium, Cadmium, Chromium, Iron, Lead, Manganese, Mercury, Nickel, Selenium, Vanadium, and Zinc, along with other trace constituents.
2. Metal reinforcements may be added for physical stability. During dust/fume generating activities, assess and adhere to applicable occupational exposure limits.
3. This product's composition varies naturally. "Sand" and "aggregates" may contain crystalline silica (i.e. quartz), which is classified as a carcinogen.

* Per NOM-018-STPS-2000

Section 4: First Aid Measures

Eye contact:

In case of contact, rinse eyes thoroughly with potable water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Rinse under eyelids to remove any particles. If eye abrasions occur or irritation persists: Get medical advice/attention.

Skin Contact:

Treat symptomatically. Cuts and abrasions should be cleaned and bandaged. Dust on skin should be rinsed with clean potable water. Call a physician if irritation develops and persists.

Inhalation:

Dust from cutting, grinding, sawing, or drilling product may be inhaled. If inhaled, remove person to fresh air and keep at rest in a position comfortable for breathing. If person is unconscious or unable to breath, SEEK MEDICAL ATTENTION IMMEDIATELY.

Ingestion:

Not a normal route of exposure. If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If the person is choking due to blocked airway it may be necessary to perform the Heimlich maneuver. If the person is unconscious it may be necessary to sweep the blockage out of the mouth using a finger. CPR chest compressions may also dislodge any blockage. Seek emergency medical attention from a physician immediately.

Symptoms of overexposure:

Eye:

Projectile fragments may cause cuts or abrasions. Dusts may cause severe irritation, abrasions, redness, tissue destruction and permanent eye damage including blindness Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.

Skin:

Projectile fragments may cause cuts or abrasions when in contact with skin. Dusts may irritate the skin. Wear gloves when handling product to avoid drying and mechanical abrasion of the skin.

Inhaled:

Dust may cause respiratory tract irritation. May cause allergic or asthma-like respiratory reactions.

Ingestion:

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

Note to physician: Symptoms may not appear immediately.

In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

Section 5: Fire Fighting Measures

Flammability: Not flammable by WHMIS/OSHA/NOM-018-STPS-2000 criteria.

Suitable fire extinguishing media: Treat for surrounding material.

Unsuitable fire extinguishing media: Not available.

Specific hazards arising from the chemical:

Hazardous combustion products: May include, and are not limited to: oxides of carbon.

Explosion Data:

Sensitivity to Mechanical Impact: Not available.

Sensitivity to Static Discharge: Not available.

Special protective equipment for fire-fighters: Keep upwind of fire. Wear full fire-fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Highly improbable. Use personal protection recommended in Section 8. Use caution to avoid breathing dust. Wear dust-mask or respirator if required. Respirable crystalline silica dust particles may be generated by clean-up of crushed product, or cutting, grinding, and drilling activities.

Environmental precautions: Product, when intact, is not an environmental hazard.

Methods and materials for containment and cleaning up:

Use mechanical aids to lift during manual handling as to reduce chance of injury. Avoid cutting, sawing, drilling, or grinding to decrease generation of dusts. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE). Vacuum or sweep smaller pieces of material and place in a disposal container. Use wet methods, if appropriate, to reduce the generation of dust. Provide ventilation if dust is generated.

Section 7: Handling and Storage

Precautions for Safe Handling:

Protective measures:

Avoid contact with skin, eyes, and clothing. Persons handling the product should wear recommended personal protective equipment (PPE) as noted in Section 8. Wash thoroughly with potable water and mild soap after handling. Avoid breathing dusts. Ensure adequate ventilation (or a respirator should be worn if PEL's are exceeded) during drilling, cutting, crushing, and grinding. Use local exhaust or perform activities in well-ventilated areas. Water suppression may be used to limit airborne dusts. Most hazards are related to physical properties (including size and weight). Use mechanical devices to lift or move.

General hygiene advice: Wash hands before eating, drinking, or smoking.

Conditions for safe storage including any incompatibilities:

Store on flat, level ground. Avoid incompatible materials that may break down product such as strong oxidizers or acids.

Section 8: Exposure Controls/Personal Protection

Occupational Exposure Limits:

Occupational Exposure Limits		
Ingredient	OSHA-PEL	ACGIH-TLV
Fine aggregate	Not available.	Not available.
Course aggregate	Not available.	Not available.
Portland cement	15 mg/m ³ (total); 5 mg/m ³ (resp)	1 mg/m ³ (no asbestos and <1% crystalline silica, respirable fraction)
Ashes (residues)	Not available.	Not available.
Slags, ferrous metal, blast furnace	Not available.	Not available.
Silica, crystalline, quartz	50 µg/m ³ (8-hr TWA)	25 µg/m ³ (respirable)
Ferric oxide	10 mg/m ³	5 mg/m ³ (iron oxide fume; dust as Fe)
Calcium hydroxide	15 mg/m ³ (total); 5 mg/m ³ (resp)	5 mg/m ³
Silica, amorphous, fumed	80 mg/m ³ /%SiO ₂	10 mg/m ³
Admixtures (organic and inorganic)	Not available.	Not available.

Engineering Controls:

When using product, provide local and general exhaust ventilation to keep airborne dust concentrations below exposure limits. Use wet methods, if appropriate, to reduce the generation of dust.

Personal protective measures and equipment

Eye/face protection: Safety glasses or goggles are recommended to ensure against any eye contact.

Hand protection: Wear suitable protective gloves, such as heavy-duty leather when handling product. Check gloves during use that the gloves are still retaining their protective properties.

Skin protection: Wear suitable protective clothing.

Respiratory protection: A NIOSH approved dust mask or filtering face piece is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2).

General Health and Safety Measures: Handle according to established industrial hygiene and safety practices. Eye wash stations should be available. Wash exposed skin thoroughly with potable water and mild soap after use. If any irritation or redness is noted, treat symptomatically or consult a doctor immediately. Wear gloves, safety glasses, and protective clothing. Safety shoes (steel toe) should be worn when handling heavy materials that could be dropped on the feet. In case of eye contact with projectile debris or dust, flush with plenty of clean, potable water for at least 15 minutes. Remove contacts if easy to do so. Seek medical attention immediately. Avoid dust inhalation and direct contact with skin and eyes. Wash contaminated skin before eating or smoking.

Section 9: Physical and Chemical Properties

Color:	Not available.
Odor:	Odorless.
Odor Threshold:	Not applicable.
Physical State:	Solid concrete.
pH:	Not applicable. (Powdered product may be caustic when in contact with water)
Melting Point/Freezing Point:	Not available.
Initial Boiling Point and Boiling Range:	Not available.
Flash Point:	Not flammable.
Evaporation Rate:	Not available.
Flammability:	Not flammable.
Lower Flammability/ Explosive Limit:	Not available.
Upper Flammability/ Explosive Limit:	Not available.
Vapor Pressure:	Not available.
Vapor Density:	Not available.
Relative Density/ Specific Gravity:	Not available.
Solubility:	Insoluble.
Partition coefficient n-octanol/water:	Not available.

Auto-ignition Temperature: Not available.
Decomposition Temperature: Not available.
Particle Characteristics: Variable (when broken).

Section 10: Stability and Reactivity

Reactivity: No dangerous reaction known under conditions of normal use. Ingredients may react with incompatible materials. Product may react with strong oxidizers, reducing agents, and acids.

Stability: Stable under normal conditions of use.

Possibility of hazardous reactions: Possible release of gases when ingredients come into contact with incompatible materials. Avoid dust created by agitation. Avoid contact or storage of dusty materials near incompatible substances. Avoid contact with strong oxidizing agents such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride, and oxygen difluoride. Silica dissolves readily in hydrofluoric acid producing a corrosive gas, silicon tetrafluoride.

Conditions to avoid: Avoid excessive handling, cutting, drilling, or grinding of hardened material which may generate dust levels above permissible exposure limits.

Incompatibility: Some ingredients have incompatible materials as detailed in Section 10.3.

Hazardous decomposition products: Highly improbable. Hazardous polymerization will not occur.

Section 11: Toxicological Information

Information on Toxicological Effects:

Likely Routes of Exposure: Skin contact, eye contact, and inhalation.

Symptoms related to physical/chemical/toxicological characteristics:

Eye: Projectile fragments may cause cuts or abrasions when in contact with eyes. Dusts may cause severe irritation, abrasions, redness, tissue destruction, and permanent eye damage including blindness (in extreme cases).

Skin: Projectile fragments may cause cuts or abrasions when in contact with skin. Dusts may irritate the skin.

Ingestion: Not a normal route of exposure. Virtually nontoxic. Ingestion of large amounts may result in obstruction and irritation of the digestive tract, choking/blockage.

Inhalation: Dust may cause respiratory tract irritation. May cause allergic or asthma like respiratory reactions.

Chronic Exposure: Prolonged inhalation of dusts may cause damage to the respiratory tract.

Repeated inhalation of high concentrations of dusts, especially respirable crystalline silica (quartz, cristobalite, tridymite) for periods as short as six months have caused acute silicosis. Acute silicosis is a rapidly progressive, incurable lung disease that is typically fatal. Not all individuals with silicosis will exhibit symptoms (signs) of the disease. However, silicosis can be progressive, and symptoms can appear at any time, even years after exposure has ceased. Symptoms of silicosis may include, but are not limited to, the following: shortness of breath; difficulty breathing with or without exertion; coughing; diminished work capacity; diminished chest expansion; reduction of lung volume; right heart enlargement and/or failure. Smoking may increase the risk of developing lung disorders, including emphysema and lung cancer. Persons with silicosis have an increased risk of pulmonary tuberculosis infection.

Several studies of persons with silicosis also indicated an increased risk of developing lung cancer, a risk that increased with the duration of exposure. Many of these studies do not account for confounding variables for lung cancer, especially smoking.

Acute Toxicity:

Ingredient	IDLH	LC50	LD50
Fine aggregate	Not available.	Not available.	Not available.
Course aggregate	Not available.	Not available.	Not available.
Portland cement	5000 mg/m ³	Not available.	Not available.
Ashes (residues)	Not available.	Not available.	Oral > 2000 mg/kg, rat
Slags, ferrous metal, blast furnace	Not available.	Not available.	Not available.
Silica, crystalline, quartz	Ca [25 mg/m ³ (cristobalite, tridymite); 50 mg/m ³ (quartz, tripoli)]	Not available.	Oral 500 mg/kg, rat
Ferric oxide	2500 mg Fe /m ³	Not available.	Oral > 10000 mg/kg, rat
Calcium hydroxide	Not available.	Not available.	Oral 7340 mg/kg, rat
Silica, amorphous, fumed	Not available.	Inhalation ≥58.8 mg/l/1 h, rat	Oral >5000 mg/kg, rat Dermal >2000 mg/kg, rabbit
Admixtures (organic and inorganic)	Not available.	Not available.	Not available.

Calculated overall Chemical Acute Toxicity Values		
LC50 (inhalation)	LD50 (oral)	LD50 (dermal)
>5 mg/l/4h, rat	>2000 mg/kg, rat	>2000 mg/kg, rabbit

Ingredient	Chemical Listed as Carcinogen or Potential Carcinogen (NTP, IARC, OSHA, ACGIH, CP65)*
Fine aggregate	Not listed.
Coarse aggregate	Not listed.
Portland cement	G-A4
Ashes (residue)	Not listed.
Slags, ferrous metal, blast furnace	Not listed.
Silica, crystalline, quartz	G-A2, I-1, N-1, O, CP65
Ferric oxide	G-A4, I-3
Calcium hydroxide	Not listed.
Silica, amorphous, fumed	I-3
Admixtures (organic and inorganic)	Not listed.

* See Section 15 for more information.

Delayed, Immediate, and Chronic Effects of Short-and-Long-Term Exposure

Skin Corrosion/Irritation: May cause skin irritation and abrasion.

Serious Eye Damage/Irritation: Causes serious eye irritation.

Respiratory Sensitization: Based on available data, the classification criteria are not met.

Skin Sensitization: May cause an allergic skin reaction.

STOT-Single Exposure: May cause respiratory tract infection.

Chronic Health Effects: Carcinogenicity: Respirable dust may contain crystalline silica, known to cause cancer.

Germ Cell Mutagenicity: Based on available data, the classification criteria are not met.

Reproductive Toxicity: Developmental: Based on available data, the classification criteria are not met.

Teratogenicity: Based on available data, the classification criteria are not met.

Embryotoxicity: Based on available data, the classification criteria are not met.

Fertility: Based on available data, the classification criteria are not met.

STOT-Repeated Exposure:

Causes damage to lungs through prolonged or repeated exposure. Respirable crystalline silica in the form of quartz or cristobalite from occupational sources is listed by the International Agency for Research on Cancer (IARC) and National Toxicology Program (NTP) as a lung carcinogen. Prolonged exposure to respirable crystalline silica has been known to cause silicosis, a lung disease, which may be disabling. While there may be a factor of individual susceptibility to a given exposure to respirable silica dust, the risk of contracting silicosis and the severity of the disease is clearly related to the amount of dust exposure and the length of time (usually years) of exposure.

Aspiration Hazard:

Based on available data, the classification criteria are not met.

Toxicologically Synergistic Materials: Not available.

Other Information: Not available.

Section 12: Ecological Information

Ecotoxicity:

Acute/Chronic Toxicity: No ecological consideration when used according to directions.

Persistence and degradability: No information available.

Mobility in soil: No information available.

Bioaccumulation: No information available.

Section 13: Disposal Considerations

Disposal methods:

Whatever cannot be saved or recovered for recycling should be disposed of in accordance with all local, state, provincial, and federal regulations. Dispose of container and unused contents in accordance with all local, state, provincial, and federal regulations.

Other disposal recommendations: Not available.

Section 14: Transportation

UN Number

DOT: Not regulated.	TDG: Not regulated.	NOM-004-SCT2-1994 Not regulated.
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UN Proper Shipping Name

DOT: Not applicable.	TDG: Not applicable.	NOM-004-SCT2-1994 Not applicable.
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Transport Hazard Class(es)

DOT: Not applicable.	TDG: Not applicable.	NOM-004-SCT2-1994 Not applicable.
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Packing Group

DOT: Not applicable.	TDG: Not applicable.	NOM-004-SCT2-1994 Not applicable.
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Environmental Hazards:

Not available.

Transport in Bulk According to Annex II of Marpol 73/78 and the IBC Code:

Not available.

Special Precautions for User:

Do not handle until all safety precautions have been read and understood.

Section 15: Regulatory Information

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

Canada: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

US: SDS prepared pursuant to the Hazard Communication Standard (CRF29.1910.1200) HazCom 2012

Mexico: SDS prepared pursuant to NOM-018-STPS-2000.

SARA Title III				
Ingredient	Section 302 (EHS) TPQ (lbs.)	Section 304 EHS RQ (lbs.)	CERCLA RQ (lbs.)	Section 313
Fine aggregate	Not listed.	Not listed.	Not listed.	Not listed.
Course 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.
Slags, ferrous metal, blast furnace	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 hydroxide	Not listed.	Not listed.	Not listed.	Not listed.
Silica, amorphous, fumed	Not listed.	Not listed.	Not listed.	Not listed.
Admixtures (organic and inorganic)	Not listed.	Not listed.	Not listed.	Not listed.

U.S. State Regulations

General Product Information: Other state regulations may apply. Check individual state requirements.

California Proposition 65:

The state of California requires the following statement (Proposition 65) in regard to this material:



WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

Global Inventories:

Ingredient	Canada DSL/NDSL	USA TSCA
Course aggregate	Not available.	Not available.
Portland cement	DSL	Yes.
Ashes (residues)	DSL	Yes.
Slags, ferrous metal, blast furnace	DSL	Yes.
Water	DSL	Yes.
Silica, crystalline, quartz	DSL	Yes.
Ferric oxide	DSL	Yes.
Calcium carbonate	NDSL	Yes.
Calcium hydroxide	DSL	Yes.
Silica, amorphous, fumed	DSL	Yes.
Admixtures (organic and inorganic)	Not available.	Not available.

NFPA – National Fire Protection Association:	
Health:	2
Fire:	0
Reactivity:	0

HMS – Hazardous Materials Identification System:	
Health:	2*
Fire:	0
Physical Hazard:	0

Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

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 classified 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.

2A – The agent (mixture) is probably carcinogenic to humans, there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.

2B – 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.

NTP (N)

National Toxicology Program

1 – Known to be carcinogens.

2 – Reasonable anticipated to be carcinogens.

Section 16: Other Information

Additional information on the product is available at. www.amconconcreteproducts.com

Date of Preparation: February 27, 2020

Version: 1.2

Replaces September 5, 2017

NOTE: The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to silica contained in our products. Before using any product, read its label and safety data sheet.