

BLUESTONE PRODUCTS[™]
A TCC Materials Company
2025 Centre Pointe Boulevard
Mendota Heights, MN 55120-1221

Emergency Telephone Number:
651-688-9116
Information Telephone Number
651-905-8137

Revision Date
August 2020

Section 1: Product Identification

Product Type: Concrete-Based Products (Patches, Grouts, Mortars)

Product Name:

ProSpec BlendCrete[™] (Gray or White)

Section 2: Hazard Identification

Classification of the chemical:

Hazard class: Acute toxicity 4 (Oral)
Skin irritation 2
Serious eye damage 1
Skin sensitization 1
Carcinogenicity 1A
Reproductive toxicity 1B
Specific target organ toxicity – After repeated exposure 1

Hazard Pictogram:



Signal Word:

Danger

Hazard Statements:

Harmful if swallowed. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. May cause cancer. May cause respiratory irritation. May damage fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure.

Precautionary Statements

Prevention:

Do not eat, drink or smoke when using this product. Wash skin thoroughly after handling. Contaminated work clothing must 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 swallowed: Immediately call a poison center/doctor. Rinse mouth. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. If on skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. If exposed or concerned: Get medical advice/attention. Get medical advice/attention if you feel unwell. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.

Storage:

Store locked up.

Disposal:

Dispose of contents and container in accordance with all local, regional, national and international regulations.

Other hazards not contributing to the classification: Not applicable.

This product is a hazardous chemical as defined by NOM-018-STPS-2000.

Section 3: Hazardous Ingredients/Composition

Ingredient	Typical Percentage	CAS #
Silica Sand (as quartz)	30-60%	14808-60-7
Cement, alumina, chemicals	10-30%	65997-16-2
Calcium carbonate	10-30%	1317-65-3
Portland Cement	10-30%	65997-15-1
Kaolin	1-5%	1332-58-7
Lithium carbonate.....	0.1-1%	554-13-2

*Specific chemical identities and concentrations withheld as trade secret. They are available upon request to health professionals, employees and their designated representatives in accord with 29CFR1910.1200(i).

Section 4: First Aid Measures

Description of the First Aid Measure:

First-aid measures after eye contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Call a physician if irritation develops and persists.

First-aid measures after skin contact: In case of contact, wash skin with plenty of cool water and pH-neutral soap or detergent. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.

First-aid measures after inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

First-aid measures after ingestion: If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention.

Most important symptoms and effects, both acute and delayed:

Symptoms/injuries after inhalation: May cause respiratory tract irritation. Causes damage to organs through prolonged or repeated inhalation. This product contains crystalline silica. Prolonged or repeated inhalation of respirable silica from this product can cause silicosis.

Symptoms/injuries after skin contact: Causes skin irritation. May cause burns in the presence of moisture. Skin contact during hydration may slowly develop sufficient heat that may cause severe burns possibly resulting in permanent injury. Do not allow product to harden around any body part or allow continuous, prolonged contact with skin. Handling can cause dry skin. May cause sensitization by skin contact.

Symptoms/injuries after eye contact: Causes serious eye damage. May cause burns in the presence of moisture. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.

Symptoms/injuries after ingestion: Harmful if swallowed. May cause stomach distress, nausea or vomiting.

Indication of Any Immediate Medical Attention and Special Treatments Needed: 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 criteria.

Extinguishing Media

Fire extinguishing media: Appropriate for surrounding materials

Unsuitable extinguishing media: Not available.

Special hazards arising from the substance or mixture

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

Explosion Data:

Sensitivity to Mechanical Impact: Not available.

Sensitivity to Static Discharge: Not available.

Advice for fire fighters

Firefighting equipment and instructions: 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:

General Measures: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Methods and Materials for Containment and Clean-Up:

Methods for Containment: Contain spill, then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE). Do not wash down drains or allow product to enter sewers – product will harden upon contact with water.

Methods for Cleaning-Up: Vacuum or sweep material and place in a disposal container.

Section 7: Handling and Storage

Precautions for Safe Handling:

Handling:

Avoid contact with skin and eyes. Do not swallow. Good housekeeping is important to prevent accumulation of dust. Avoid generating and breathing dust. The use of compressed air for cleaning clothing, equipment, etc., is not recommended. Handle and open container with care. When using do not eat or drink. Wash hands before eating, drinking, or smoking. (See Section 8)

General hygiene measures: Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

Conditions for Safe Storage, Including Any Incompatibilities:

Storage conditions:

Keep out of the reach of children. Store in dust-tight, dry, labeled containers. Keep containers closed when not in use. Avoid any dust buildup by frequent cleaning and suitable construction of the storage area. Do not store in an area equipped with emergency water sprinklers. (See Section 10)

Specific end use(s): No additional information available.

Section 8: Exposure Controls/Personal Protection

Control Parameters

Silica Sand (as quartz) (14808-60-7)		
USA ACGIH	ACGIH TLV (mg/m ³)	25 µg/m ³ (respirable)
USA OSHA	OSHA PEL (TWA) (mg/m ³)	50 µg/m ³ (8-hr TWA)
Cement, alumina, chemicals (65997-16-2)		
USA ACGIH	ACGIH TLV (mg/m ³)	Not available.
USA OSHA	OSHA PEL (TWA) (mg/m ³)	Not available.
Calcium carbonate (1317-65-3)		
USA ACGIH	ACGIH TLV (mg/m ³)	10 mg/m ³
USA OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³ , total; 5 mg/m ³ , respirable
Cement, Portland, chemicals (65997-15-1)		
USA ACGIH	ACGIH TLV (mg/m ³)	1 mg/m ³ (no asbestos and <1% crystalline silica, respirable fraction)
USA OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³ , total; 5 mg/m ³ , respirable
Kaolin (1332-58-7)		
USA ACGIH	ACGIH TLV (mg/m ³)	2 mg/m ³
USA OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³
Lithium carbonate (554-13-2)		
USA ACGIH	ACGIH TLV (mg/m ³)	Not available.
USA OSHA	OSHA PEL (TWA) (mg/m ³)	Not available.

Exposure Controls

Appropriate engineering controls: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits. If cutting or grinding material after it has hardened, water can be used as a dust suppressant.

Individual Protective Measures

Eye/face Protection: Wear approved eye (properly fitted dust- or splash-proof chemical safety goggles / face (face shield) protection. If used in dusty or windy conditions, goggles are recommended.

Skin Protection: Avoid any skin contact, particularly when skin may be wet from sweat. Wear any water-impermeable gloves such as PVC gloves, particularly for

prolonged contact. Wear waterproof boots, high enough to prevent any cement from getting into them. Promptly wash off of skin and remove contaminated clothing.

Respiratory Protection: A NIOSH approved dust mask or filtering facepiece 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. Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking.

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties

Physical State:	Solid.
Appearance:	Powder.
Color:	Gray to gray-brown or off-white.
Odor:	Characteristic.
Odor Threshold:	No data available.
pH:	10 – 12
Relative evaporation rate (butylacetate=1):	No data available.
Melting point:	No data available.
Freezing Point:	No data available.
Boiling Point:	No data available.
Flash point:	No data available.
Self-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Flammability (solid, gas):	Not Flammable.
Vapor pressure:	No data available.
Relative vapor density at 20°C:	No data available.
Relative density:	No data available.
Solubility:	No data available.
Low Pow:	No data available.
Low Kow:	No data available.
Viscosity, kinematic:	No data available.
Viscosity, dynamic:	No data available.
Explosive properties:	No data available.
Oxidizing properties:	No data available.
Explosive limits:	No data available.

VOC content: 0%, Not applicable.

Section 10: Stability and Reactivity

Reactivity: No dangerous reaction known under conditions of normal use.

Chemical Stability: Stable under normal storage conditions. Keep dry in storage.

Possibility of hazardous reactions: No dangerous reaction known under conditions of normal use.

Conditions to avoid: Incompatible materials. Moisture.

Incompatible Materials: Wet cement is alkaline and incompatible with acid, ammonium salts and aluminum metal.

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

Section 11: Toxicological Information

Information on Toxicological Effects:

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

Symptoms related to physical/chemical/toxicological characteristics:

Eye: Causes serious eye damage. May cause burns in the presence of moisture. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.

Skin: Causes skin irritation. May cause burns in the presence of moisture. Skin contact during hydration may slowly develop sufficient heat that may cause severe burns possibly resulting in permanent injury. Do not allow product to harden around any body part or allow continuous, prolonged contact with skin. Handling can cause dry skin. May cause sensitization by skin contact.

Ingestion: Harmful if swallowed. May cause stomach distress, nausea or vomiting.

Inhalation: May cause respiratory tract irritation.

Acute toxicity:

Ingredient	IDLH	LC50	LD50
Sand, Silica, crystalline, quartz	Ca [25 mg/m ³ (cristobalite, tridymite) 50 mg/m ³ (quartz, tripoli)]	Not available.	Oral 500 mg/kg, rat
Cement, alumina, chemicals	Not available.	Not available.	Not available.
Calcium carbonate	Not available.	Not available.	Not available.
Portland cement	5000 mg/m ³	Not available.	Not available.
Kaolin	Not available.	Not available.	Not available.
Lithium carbonate	Not available.	Inhalation >2.17 mg/L, rat	Oral 525 mg/kg, rat

Calculated overall Chemical Acute Toxicity Values		
LC 50 (inhalation)	LD50 (oral)	LD50 (dermal)
Not available.	500-510 mg/kg. rat	Not available.

Ingredient	Chemical Listed as Carcinogen or Potential Carcinogen (NTP, IARC, OSHA,ACGIH, CP65)
Sand, Silica, crystalline, quartz	G-A2, I-1, N-1, CP65
Cement, alumina, chemicals	Not listed.
Calcium carbonate	Not listed.
Portland cement	G-A4
Kaolin	Not listed.
Lithium carbonate	CP65

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

Skin Corrosion/Irritation: Portland cement is caustic and abrasive to the skin. In contact with water or moisture, it can form alkaline hydroxides, which can cause burns that may not be felt immediately.

Portland cement may contain trace amounts of hexavalent chromium. Hexavalent chromium can cause allergic contact dermatitis.

Serious eye damage/irritation: Causes serious eye damage. May cause burns in the presence of moisture.

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

Skin Sensitization: May cause skin sensitization by skin contact or an allergic skin reaction.

STOT-Single Exposure: May cause respiratory irritation.

Chronic Health Effects: 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.

Carcinogenicity: May cause cancer.

Germ cell mutagenicity: This product is not classified as a mutagen.

Reproductive toxicity

Developmental: May damage the unborn child.

Teratogenicity: Not hazardous by WHMIS/OSHA criteria.

Embryotoxicity: Not hazardous by WHMIS/OSHA criteria.

Fertility: May damage fertility.

STOT-Repeated Exposure: Causes damage to organs through prolonged or repeated 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.

Normal dilution of this product to drains, sewers, septic systems and treatment plants is not considered environmentally harmful.

Persistence and degradability: No data available.

Bioaccumulation potential: No data available.

Mobility in soil: No data available.

Other adverse effects: No data available.

Section 13: Disposal Considerations

Disposal Methods:

This material must be disposed of 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.

UN Proper Shipping Name:

DOT

Not applicable.

TDG

Not applicable.

NOM-004-SCT2-1994

Not applicable.

Transport Hazard Class(es):

DOT

Not applicable.

TDG

Not applicable.

NOM-004-SCT2-1994

Not applicable.

Packing Group:

DOT

Not applicable.

TDG

Not applicable.

NOM-004-SCT2-1994

Not applicable.

Environmental hazards:

Not applicable.

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

Not available.

Special transport precautions: 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 CHEMICLA

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

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

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

SARA Title III				
Ingredient	Section 302 (EHS) TPQ (lbs.)	Section 304 ESH RQ (lbs.)	CERCLA RQ (lbs.)	Section 313
Sand, Silica, crystalline, quartz	Not listed.	Not listed.	Not listed.	Not listed.
Cement, alumina, chemicals	Not listed.	Not listed.	Not listed.	Not listed.
Calcium carbonate	Not listed.	Not listed.	Not listed.	Not listed.
Portland cement	Not listed.	Not listed.	Not listed.	Not listed.
Kaolin	Not listed.	Not listed.	Not listed.	Not listed.
Lithium carbonate	Not listed.	Not listed.	Not listed.	313

US State Regulations California Proposition 65



WARNING: This product can expose you to chemicals, including Silica crystalline (quartz), which are known to the State of California to cause cancer and may also contain trace amounts of other chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Chemical Name	California Proposition 65
Sand, Silica, crystalline, quartz	Carcinogen
Lithium carbonate	Developmental Toxicity

Global Inventories:

Ingredient	Canada DSL/NDSL	USA TSCA
Sand, Silica, crystalline, quartz	DSL	Yes.
Cement, alumina, chemicals	DSL	Yes.
Calcium carbonate	NDSL	Yes.
Portland cement	DSL	Yes.
Kaolin	DSL	Yes.
Lithium carbonate	DSL	Yes.

NFPA - National Fire Protection Association:

Health	3
Fire:	1
Reactivity:	0

HMIS – Hazardous Materials Identification System:

Health	3*
Fire:	1
Reactivity:	0

Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme
 HMIS® is a registered trademark of the National Paint and Coatings Association

WHMIS Classification(s):

Class D2A – Carcinogenicity
 Class D2A - Chronic Toxic Effects
 Class E - Corrosive Material

WHMIS Hazard Symbols:



Mexico Classification:



Blue = Health Red = Flammability Yellow = Reactivity White = Special

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 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.

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.

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

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

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Date of Preparation: August 21, 2020

Version: 1.1

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effects which may be caused by exposure to silica contained in our products. Before using any product, read its label and safety data sheet.