Safety Data Sheet

1600 Ultra Performance Grout

SECTION 1: IDENTIFICATION

Product: 1600 Ultra Performance Grout
Product Use: Polymer-Modified Calcium Aluminate Cement Grout
Manufacturer Information:

Ontario
111 Royal Group Cr.
Vaughan, ON.
L4H 1X9
Tel: (416) 255-1111
Fax: (416) 255-1729

British Columbia
2829 Lake City Way
Burnaby, B.C.
V5A 2Z6
Tel: (644) 420-4914
Fax: (604) 420-0936

IN CASE OF EMERGENCY CALL CANUTEC (613) 996-6666

SECTION 2: HAZARDS IDENTIFICATION

Classification of the chemical
WHMIS Classification
Class D2A, D2B, E



GHS Signal Word	Danger
GHS Classification:	
Skin corrosion / irritation	Category 1 Causes skin irritation
Serious eye damage / eye irritation	Category 1 Causes serious eye damage
Skin Sensitization	Category 1 May cause an allergic skin reaction
Carcinogenicity	SECategory 1A May cause cancer if inhaled
Specific Target Organ Systemic Toxicity (STOT) SE	Category 3 May cause respiratory irritation
Specific Target Organ Systemic Toxicity (STOT) RE	Category 1 Causes damage to organs through prolonged exposure if inhaled
GHS Hazard Statements	Causes skin irritation, may cause an allergic skin reaction, causes serious eye damage; may cause respiratory irritation; may cause cancer; causes damage to organs through prolonged or repeated exposure.

GHS Hazard Statements	
H302	Harmful if swallowed, acute toxicity, oral
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H335	May cause respiratory irritation.
H350	May cause cancer if inhaled.

1600 Ultra Performance Grout

H372	Causes damage to organs through prolonged or repeated exposure if inhaled.

GHS Precautions

Code	Description
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves and eye protection.
P302+P352.A	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.
P308+P313	If exposed or concerned: Get medical advice/attention.
P310	Immediately call a POISON CENTER.
P312	Call a POISON CENTER if you feel unwell.
P314	Get medical advice/attention if you feel unwell.
P321.A	Specific treatment (see supplementary instructions on this label)
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with applicable regulations.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Name	% by Weight	CAS No.	Classification
Silica Sand, Crystalline quartz	40 - 70	14808-60-7	Carc. 1A, H350 STOT RE 1, H372
Calcium Aluminate Cement	10 - 30	65997-16-2	Eye damage 1, H318 Skin irritant 2, H315
Calcium Carbonate	10 - 20	1317-65-3	Skin irritant 2, H315 Eye irritant 2B, H320 STOT SE 3, H335
Gypsum	5 - 10	13397-24-5	STOT SE 3, H335
Lithium Carbonate	0.1 - 1	554-13-2	Acute toxicity 4, H302 Eye irritant 2A, H319

SECTION 4: FIRST AID MESURES

General In case of accident or illness, seek medical attention immediately.
Eye Contact Flush eyes and contaminated skin with abundant water. Seek medical attention immediately.
Skin Contact Remove contaminated clothing immediately. Wash skin immediately with soap and abundant water.
Inhalation If breathing is irregular or stopped, administer artificial respiration. Move to a well ventilated area. Seek medical attention immediately.
If Ingested Severely irritating. Do not induce vomiting. Drink lots of water or milk to dilute. Do not give anything by mouth to an unconscious person. Seek medical attention immediately.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing Media	Water spray, carbon dioxide, dry chemical or foam
Unsuitable Extinguishing Media	None in particular
Hazardous Combustion Products	Do not inhale explosion and combustion gases
Explosive Properties	N/A
Oxidizing Properties	N/A
Special Firefighting Procedures	Wear standard fire fighting gear with self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Special Protection Exposure to spilled material may be irritating or harmful. Wear personal protective equipment.
Protective Equipment Refer to Section 8 on this Safety Data Sheet for appropriate personal protection equipment.
Pick up solids and avoid dust accumulation. Use an appropriate scoop to remove large amounts of material while smaller quantities may be swept up. Avoid the use of water as material becomes alkaline when wet.
Waste Disposal Dispose of in accordance with local, state and federal regulations.
Environmental Precautions Do not allow product to enter drains or waterways. Do not allow material to contaminate ground water system. Refer to Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

Wear personal protective equipment. Avoid contact with skin and eyes, inhalation of vapours and mists.
Contaminated clothing should be changed before entering eating areas. Do not eat or drink in work areas.

1600 Ultra Performance Grout

Do not use any empty containers before they are cleaned.
Protective Equipment Refer to Section 8 on this Safety Data Sheet for appropriate personal protection equipment.
Wash thoroughly after handling.
Storage Store in a cool, adequately ventilated, dry area. Keep containers tightly closed when not in use

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE LIMITS

Chemical Name	CAS No.	ACGIH TLV	OSHA PEL
Silica Sand, Crystalline Quartz	14808-60-7	0.025 mg/m^3 TWA (respirable fraction)	0.1 mg/m^3 TWA (respirable)
Calcium Carbonate	1317-62-3	10 mg/m^3 TWA	5mg/m^3
Gypsum	13397-24-5	10 mg/m^3 TWA	15 mg/m^3 TWA (total dust) 5 mg/m^3 TWA (respirable)

ENGINEERING CONTROL METHODS:

Ventilation Use local exhaust ventilation or other engineering controls to minimize exposures.

Eye Protection: Wear safety glasses with side shields or face shield when handling this product. Have an eye wash station available.

Skin protection Avoid skin contact by wearing chemically resistant gloves and long sleeved shirt.

Hand Protection Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory Protection Use approved (OSHA) dust respirator rated n95 when mixing .

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Solid
Odour and appearance	Odourless powder
Odour threshold	N/A
Specific gravity	1.2 – 1.6
Boiling point	N/A
Freezing point	N/A
pH	11 when wet
Flash point	N/A
Upper/Lower flammability or explosive limits	N/A
Auto-ignition temperature	N/A
Decomposition temperature	N/A
Explosive properties	N/A

Oxidizing properties	N/A
Solubility in water	Dispersable
Solubility in oil	N/D
Octanol/Water coefficient	N/D
Calculated VOC content	0 g/l

SECTION 10: STABILITY AND REACTIVITY

Chemical stability	Stable
Incompatible materials	Strong oxidizing agents, strong acids, strong bases
Conditions to avoid	Keep dry until used
Hazardous decomposition products	CO, CO_2, NO_x, and other unidentified organic compunds

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicological information based on the individual components.

Chemical Name	CAS No.	LD50/LC50
Silica Sand, Crystalline Quartz	14808-60-7	ORAL LD50 (rat) 500 mg/kg
Calcium Carbonate	1317-65-3	Oral LD50 6450 mg/kg (rat)

Routes of entry skin contact, eye contact, ingestion, inhalation
Effects of acute exposure irritate the eyes and upper respiratory tract. Ingestion can cause throat irritation.
Effects of chronic exposure cement dust can cause inflammation of tissue lining the nasal interior and the eye cornea. Hypersensitive persons may develop allergic dermatitis.

Skin corrosion	In both dry and wet forms can dry skin and cause alkali burns
Serious eye damage / irritation	Can cause moderate irritation, tearing, and reddening
Respiratory or skin sensitization	May cause an allergic skin reaction, and respiratory irritation
Germ cell mutagenicity	No data available.
Carcinogenicity	This product contains crystalline silica. Crystalline silica (respirable size) is classified as carcinogenic by inhalation by: IARC (Group 1), ACGIH (Group A2), NTP (Group 1), OSHA (Select carcinogen). Cement is not listed as a carcinogen by IARC or NTP; however, cement contains trace amounts of crystalline silica and hexavalent chromium which are classified by IARC and NTP as known human carcinogens.
Reproductive toxicity	No data available
STOT-single exposure	May cause respiratory irritation
STOT-repeated exposure	May cause lung damage upon repeated or prolonged exposure
Aspiration hazard	repeated inhalation of dust may result in silicosis

1600 Ultra Performance Grout

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	N/A
Persistence and degradability	N/A
Bioaccumulative potential	N/A
Mobility in soil	N/A
Other adverse effects	N/A
List of components with eco-toxological properties	
Silica sand	LC50 Aquatic acute toxicity carp >10,000 mg/l 72 h
Gypsum	LC50 Fathead minnow . 1970 mg/l, 96 h

SECTION 13: DISPOSAL CONSIDERATIONS

Handling for disposal Handle waste as per recommendations in Section 7.

Dispose of in an approved landfill. Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal.

SECTION 14: TRANSPORT INFORMATION

Consult Bill of Lading for transportation information.

Canadian TDG : not regulated

US DOT: not regulated

IATA: not regulated

SECTION 15: REGULATORY INFORMATION

Canadian Information:

Canadian WHMIS Classification: This product is a WHMIS Controlled Product. It meets one or more of the criteria for a controlled product provided in Part IV of the Controlled Products Regulations (CPR). Refer to Section 2 for a WHMIS Classification for this product.

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on either the Domestic Substances List (DSL) or the Non- Domestic Substances List (NDSL). It contains components listed on the Canadian HPA Ingredient Disclosure List. It contains Crystalline silica, quartz.

US Federal Information:

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

CERCLA Reportable Quantity (RQ) (40 CFR 117.302): None reported.

SARA TITLE III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This material is not subject to SARA notification requirements, since it does not contain any Toxic Chemical constituents above the minimum concentrations.

U.S. State Right To Know Laws

California Proposition 65: Warning! This product contains a chemical known to the State of California to cause cancer. It contains Crystalline silica, quartz, lithium carbonate

Other State Right to Know Law:

MA Calcium Carbonate, Crystalline Silica, Quartz, Gypsum, Lithium Carbonate

NJ Calcium Carbonate, Crystalline Silica, Quartz, Gypsum, Lithium Carbonate

1600 Ultra Performance Grout

PA Calcium Carbonate, Crystalline Silica, Quartz, Gypsum, Lithium Carbonate
RI Calcium Carbonate, Crystalline Silica, Quartz, Gypsum, Lithium Carbonate
MN Calcium Carbonate, Crystalline Silica, Quartz, Gypsum, Lithium Carbonate

SECTION 16: OTHER INFORMATION

This Safety Data Sheet is prepared to comply with the Canadian Workplace Hazardous Materials Information System (WHMIS) and the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200).
HMIS rating: **Health** -- 2 **Flammability** -- 1 **Reactivity** -- 0
See **SECTION 8**: **EXPOSURE CONTROLS/PERSONAL PROTECTION** for personal protective equipment recommendations.

PREPARATION DATE OF SAFETY DATA SHEET

Prepared by Technical department
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Date prepared 16th July, 2015

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