



SECTION 1 PRODUCT NAME AND COMPANY IDENTIFICATION

Product Name: KM Roofgrade

Recommended Use: Ready-mixed cement grout powder

Restriction on Use: None

Manufacturer:

Polyglass U.S.A. Inc.
1111 West Newport Center Drive
Deerfield Beach, Florida 33442
866-222-9782

SDS Date of Preparation: 1/5/18

Emergency Contact: (800) 424-9300 CHEMTREC (USA)

SECTION 2: HAZARDS IDENTIFICATION

Hazard Classification:

Physical	Health
Not Hazardous	Skin Corrosion 1A Eye Damage Category 1 Skin Sensitizer Category 1 Carcinogen Category 1A (inhalation) Specific Target Organ Toxicity Single Exposure Category 3 (respiratory irritation) Specific Target Organ Toxicity Repeated Exposure Category 1

Label Elements:



DANGER!

- Causes severe skin burns and eye damage.
- May cause an allergic skin reaction.
- May cause cancer if inhaled.
- May cause respiratory irritation.
- Causes damage to lungs through prolonged or repeated exposure if inhaled.

Prevention

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Do not breathe dusts.
- Wash exposed skin thoroughly after handling.
- Contaminated work clothing must not be allowed out of the workplace.
- Do not eat, drink or smoke when using this product.
- Use only outdoors or in a well-ventilated area.



Wear protective gloves, protective clothing, eye protection and face protection.

Response

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or doctor.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.

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 or doctor.

If exposed or concerned: Get medical advice.

Storage

Store locked up.

Disposal:

Dispose of contents and container in accordance with local and national regulations.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS#	WT.%
Silica sand (Crystalline Silica, Quartz)	14808-60-7	50-75
Portland Cement	65997-15-1	10-25

The exact percentage (concentration) of composition is naturally variable or has been withheld as a trade secret.

SECTION 4 FIRST AID MEASURERS

Eyes: Immediately flush eyes with water for at least 20 minutes while lifting the upper and lower lids. Get immediate medical attention.

Skin: Remove contaminated clothing. Immediately rinse skin thoroughly with water for at least 15 minutes, then wash with soap and water. If irritation or burns develop, get immediate medical attention. Launder clothing before re-use.

Inhalation: If inhaled, move to fresh air. If symptoms persist or if a large amount if inhaled, get immediate medical attention.

Ingestion: If conscious, rinse mouth with water. Never give anything by mouth to a person who is unconscious or convulsing. Do not induce vomiting. Get immediate medical attention.

Most important symptoms/effects, acute and delayed: Causes severe eye irritation and burns. Permanent eye damage is possible. Causes severe skin irritation and burns, particularly on contact with wet material or contact of dry product with moist skin. May cause an allergic skin reaction (sensitization). Inhalation of dust may cause respiratory irritation. Ingestion causes irritation and burns to the mouth, throat and intestinal tract. Contains crystalline silica, which may cause cancer and lung damage if inhaled.

Indication of immediate medical attention and special treatment, if necessary: Immediate medical attention is required if this product contacts the eye or skin or is swallowed. Get immediate medical attention for any significant inhalation exposure.

SECTION 5 FIRE FIGHTING MEASURES

Extinguishing Media: Use any media appropriate for the surrounding fire. Cool fire exposed containers with water.

Special Protective Equipment and Precautions for Fire-fighters: Firefighters should wear full emergency equipment and NIOSH approved positive pressure self-contained breathing apparatus. Do not allow run-off from firefighting to enter drains or water courses.



Specific Hazards Arising from the Chemical: This product is not combustible. Thermal decomposition may generate oxides of carbon and sulfur and metal oxides.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures: Wear appropriate protective clothing to prevent eye and skin contact. Do not breathe dust. Evacuate the area of unprotected people.

Methods and Materials for Containment and Cleaning Up: Minimize the generation of dust during clean-up. Small spills can be cleaned using a vacuum with a high efficiency filter (HEAP). Large spills can be carefully scooped or shoveled into containers or reuse or disposal. **DO NOT USE COMPRESSED AIR TO CLEAN SPILLS.** Wash spill area to remove residues. Prevent runoff to storm sewers and ditches leading to natural waterways. Report spill as required by local and federal regulations.

SECTION 7 HANDLING and STORAGE

Precautions for Safe Handling: Prevent contact with the eyes, skin and clothing. Do not breathe dust. Wear protective clothing and equipment as described in Section 8. Use only with adequate ventilation. Do not rely on sight to determine if silica levels are above the permissible exposure limit. Refer to the OSHA Respirable Crystalline Silica standards; 29CFR1910.1053, 1915.1053 and 1926.1053 for specific requirements for use and handling. Use good housekeeping in storage and use areas to prevent accumulation of dust in work area. Do not get Portland Cement inside boots, shoes, or gloves. Remove clothing and protective equipment that becomes saturated with cement and immediately wash exposed areas of the body.

Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Eating, drinking and smoking should be prohibited in areas where this material is used. Exercise care in opening container. Do not use on extensive surface areas where there are occupants. Remove contaminated clothing as soon as possible and wash it before reuse. Do not wear contaminated clothing out of the immediate work area. Before transferring to other containers, be sure there are no acids or other incompatible materials in the container.

Empty containers retain product residues can be hazardous. Follow all SDS precautions when handling empty containers.

Storage: Store in a dry, well ventilated area. Protect from physical damage. Keep container closed when not in use.

SECTION 8 EXPOSURE CONTROLS and PERSONAL PROTECTION

Exposure Guidelines:

INGREDIENTS	EXPOSURE LIMITS
Silica sand (Crystalline Silica, Quartz)	0.05 mg/m ³ TWA (respirable fraction) OSHA PEL* 0.025 mg/m ³ TWA ACGIH TLV (respirable fraction)
Portland Cement	1 mg/m ³ TWA ACGIH TLV (respirable fraction) 5 mg/m ³ TWA OSHA PEL (respirable fraction) 15 mg/m ³ TWA OSHA PEL(total dust)

* 2016 OSHA PEL effective as follows:
Construction June 23, 2017 29CFR 1926.1153
General Industry and Maritime June 23, 2018 29CFR 1910.1053 / 1915.1053

The OSHA PEL for Crystalline Silica, Quartz until the effective dates for new PEL above:
 $\frac{10 \text{ mg/m}^3}{\% \text{SiO}_2 + 2}$ TWA (respirable dust) $\frac{30 \text{ mg/m}^3}{\% \text{SiO}_2 + 2}$ TWA (total dust)



Appropriate Engineering Controls: Use with adequate general or local exhaust ventilation to maintain exposures below the occupational exposure limits.

Respiratory Protection: If the exposure limits are exceeded a NIOSH approved respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 and good industrial hygiene practice. Refer to the OSHA Respirable Crystalline Silica standards; 29CFR1910.1053, 1915.1053 and 1926.1053 for specific requirements for respiratory protection. Always refer to the most recent government and local standards.

Gloves: Rubber, PVC, neoprene or other impervious gloves are required.

Eye Protection: Chemical safety goggles required. Do not wears safety glasses for eye protection.

Other Protective Equipment: Impervious clothing as needed to prevent contact. Long-legged and sleeved clothing and alkali-resistant boots are recommended to protect from wet portland cement. Do not get cement inside protective clothing, boots or gloves.

SECTION 9 PHYSICAL and CHEMICAL PROPERTIES

Appearance And Odor: Grey solid powder with no appreciable odor.

Boiling Point (@ 760 mmHg): Not applicable	Freezing Point: Not applicable
Odor Threshold: Not applicable	Viscosity: Not applicable
Relative density (H2O=1): Not determined	Vapor Pressure: Not applicable
VOC: None	Vapor Density (AIR=1): >1
Evaporation Rate: Not applicable	Solubility In Water: Slightly soluble
pH: Not applicable (alkaline when wet 12-13)	Partition Coefficient n-Octanol/Water: Not determined
Flash Point: Not applicable	Autoignition Temperature: Not applicable
Decomposition Temperature: Not determined	Flammability (solid, gas): Not flammable or combustible
Flammable Limits: (vol % in air)	LEL – Not applicable UEL – Not applicable

SECTION 10 STABILITY and REACTIVITY

Reactivity: Not normally reactive.

Chemical Stability: Stable under normal storage and handling conditions

Possibility of Hazardous Reactions: None known

Conditions to avoid: None known.

Incompatible materials: Reactive or incompatible with the following materials: oxidizing materials, acids, aluminum and ammonium salt. Portland Cement is highly alkaline and will react with acids to produce a violent, heat-generating reaction. Toxic gases or vapors may be given off depending on the acid involved. Reacts with acids, aluminum metals and ammonium salts. Aluminum powder and other alkali and alkaline earth elements will react in wet mortar or concrete, liberating hydrogen gas. Limestone ignites on contact with fluorine and is incompatible with acids, alum, ammonium salts, and magnesium. Silica reacts violently with powerful oxidizing agents such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride, and oxygen difluoride yielding possible fire and/or explosions. Silicates dissolve readily in hydrofluoric acid producing a corrosive gas — silicon tetrafluoride

Hazardous decomposition products: Thermal decomposition may yield oxides of carbon and sulfur and metal oxides.

SECTION 11 TOXICOLOGICAL INFORMATION

Eye: Contact causes severe irritation with pain, redness, tearing and burning. Permanent eye damage is possible.

Skin: Causes severe skin irritation and burns, particularly on contact with wet material or contact of dry product with moist skin. May cause an allergic skin reaction (sensitization).

Inhalation: Inhalation of dust may cause respiratory irritation. See chronic effects and carcinogenicity for other inhalation effects.

Ingestion: Ingestion causes irritation and burns to the mouth, throat and intestinal tract.

Sensitization: This product may cause skin sensitization.



Chronic Effects: Excessive inhalation of respirable crystalline silica dust may cause a progressive, disabling and sometimes fatal lung disease called silicosis. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness and reduced pulmonary function. This disease is exacerbated by smoking. Individuals with silicosis are predisposed to develop mycobacterial infections (tuberculous and non-tuberculous) and fungal infections. Inhalation of air with a very high concentration of respirable silica dust can cause the most serious forms of silicosis in a matter of months or a few years. Some epidemiologic studies have concluded that there is significant risk of developing silicosis even at airborne exposure levels that are equal to the recommended exposure limits. There is some evidence that breathing respirable crystalline silica or the disease silicosis is associated with an increased incidence of significant disease endpoints such as scleroderma (an immune system disorder manifested by fibrosis of the lungs, skin and other internal organs) rheumatoid arthritis, systemic lupus, erythematosis, sarcoidosis, chronic bronchitis, chronic obstructive pulmonary disease (COPD), emphysema, chronic kidney disease and end-stage renal disease.

Carcinogenicity: The International Agency for Research on Cancer has determined that crystalline silica is carcinogenic to humans (Group 1 - carcinogenic to humans). The National Toxicology Program classifies respirable crystalline silica as "known to be a human carcinogen". The American Conference of Governmental Industrial Hygienists (ACGIH) classifies crystalline silica, quartz, as a suspected human carcinogen (A2).

Reproductive effects: No adverse effects are expected.

Numerical Measures of Toxicity:

Crystalline Silica: Oral rat LD50: >10,000 mg/kg; Inhalation rat LC50: >0.139 mg/l/4h; Skin rabbit LD50: >5000 mg/kg
Portland Cement: No data available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: No data available
Persistence and degradability: No data available
Bioaccumulative potential: No data available
Mobility in soil: No data available
Other adverse effects: No data available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose in accordance with all local, state and federal regulations.

SECTION 14: TRANSPORT INFORMATION

DOT:		
UN/ID Number		None
Proper Shipping Name		Not Regulated
Hazard Class		None
Packing Group		None
ERG Code		N/A
DOT Special Provisions		None known
Description		None
TDG:		
UN/ID Number		None
Proper Shipping Name		Not Regulated
Hazard Class		None
Packing Group		None
ERG Code		N/A
TDG Special Provisions		None known



	Description	None
IATA:		
	UN/ID Number	None
	Proper Shipping Name	Not Regulated
	Hazard Class	None
	Packing Group	None
	ERG Code	N/A
	Special Provisions	None known
	Description	None
IMDG:		
	UN/ID Number	None
	Proper Shipping Name	Not Regulated
	Hazard Class	None
	Packing Group	None
	EmS-No	N/A
	Special Provisions	None known
	Description	None

SECTION 15: REGULATORY INFORMATION

SARA Hazard Category (311/312): Refer to Section 2 for OSHA Hazard Classification.

EPA SARA 313: This product contains the following chemicals regulated under SARA Title III, section 313: None known

CERCLA Hazardous Substances (Section 103)/RQ: This product is not subject to CERCLA reporting requirements as it is sold. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

Toxic Substances Control Act: All of the components of this product are listed on the TSCA inventory.

California Proposition 65: This product contains respirable crystalline silica which is known to the State of California to cause cancer.

SECTION 16: OTHER INFORMATION

NFPA Rating:	Health = 3	Fire = 0	Instability = 0
HMIS Rating:	Health = 3*	Fire = 0	Physical Hazard = 0

SDS Date of Preparation: 01/05/18

Revision Summary: New SDS.

NOTICE

This above information is believed to be correct but does not propose to be all inclusive and shall be used only as a guide. Polyglass U.S.A. Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. This information relates only to the product designated herein and does not relate to its use in combination with any other material or process.