

Date prepared: MAY 2016 Date
Revised: JANUARY 2019

SDS No. PV.1.7.

Section 1 – Product Identification

IDENTITY: *Product Name:* **Pavemend KemROK-VR™**
Chemical Characterization: **SCM (Supplementary Cementitious Material)**
Product Use Description: **Chemical Resistant Structural Repair Mortar**

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Recommended use of the chemical and restriction on use: Refer to the product technical data sheet.
For industrial and professional users.

Section 2 – Hazards Identification**GHS Classification:**

Skin irritation, Category 2 Serious
eye damage, Category 1
Eye Irritation, Category 2
Respiratory system; Category 3
Carcinogenicity, Category 1A

H315: Causes skin irritation (alkaline when moistened)
H318: Causes serious eye damage
H319: Causes serious eye irritation
H335: May cause respiratory irritation
H350: May cause cancer

GHS Label element:**Hazard Pictograms**

GHS07



08

Signal Word: Danger

Hazard Statements:

H315: Causes skin irritation (alkaline when moistened).
H318: Causes serious eye damage.
H335: May cause respiratory irritation.
H350: May cause cancer.

Precautionary Statements:**Prevention:**

P264: Wash skin thoroughly after handling.
P280: Wear eye protection/face protection.
P280: Wear protective gloves.
P281: Use protective equipment as required.

Response:

P302 + P352: IF ON SKIN: Wash with plenty of water.
P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position 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.
P332 + P313: IF skin irritation occurs" Get medical advice/attention.

IDENTITY: Pavemend KemROK-VR™

P362: Take off contaminated clothing and wash before reuse.

Storage:

P403 + P232: Store in a well-ventilated place. Protect from moisture.

Disposal:

P501: Dispose of contents/container to an approved waste disposal site.

P502: Refer to manufacturer/supplier for information on recovery/recycling.

Section 3 – Composition / Information on Ingredients

Hazardous Components	CAS No.	Weight %
Proprietary SCM material	Mixture	10 - 30
Calcium-magnesium carbonate	16389-88-1	40 - 70
Crystalline Quartz Silica (SiO ₂)	14808-60-7	0.04 - 3.2
Various Oxides (1)	Mixture	1 - 5

OSHA Regulatory Status: This material is classified hazardous under OSHA regulations. Some components of this product are (1) Oxides, may include Al and/or Ca and/or Fe.

Section 4 – First Aid Measures

After Inhalation: Remove subject to fresh air. Administer oxygen if difficulty with breathing. Consult a physician.

After Ingestion: Immediately seek medical attention. Do not induce vomiting without medical advice. If conscious, drink plenty of water.

After Skin Contact: Instantly wash skin with plenty of soap and water for at least 15 minutes. Wash clothing before reuse. Seek medical attention if symptoms persist.

After Eye Contact: Rinse opened eye with plenty of running water for at least 15 minutes, lifting upper and lower eyelids occasionally. Consult physician immediately.

Section 5 – Fire Fighting Measures

Extinguishing Media: Use dry chemical fire extinguisherr. Do not use water or halogenated compounds.

Special Fire Fighting Procedures: As in any fire, wear full protective gear and NIOSH-approved self-contained breathing apparatus with full face-piece operated in the pressure demand or other positive pressure mode.

Unusual Fire and Explosion Hazards: No unusual fire or explosion hazards. Material can splatter above 212°F (100°C).

Section 6 – Accidental Release Measures

Person-related Safety Precautions: Avoid causing dust. Avoid eye and skin contact.

Environmental precautions: Prevent material from reaching sewage and drainage systems or bodies of water.

Methods for Cleaning up: Use dry cleanup methods that do not disperse dust into the air. With water, material hydrates to a solid harmless waste. Wear personal protective equipment. Residual amounts of material can be flushed with large amounts of water. Emergency procedures are not required.

Section 7 – Handling and Storage

- Handling:** Avoid causing dust. Avoid eye and skin contact. Keep out of reach of children.
- Storage:** Store in a cool, dry enclosed area off the ground in tightly closed containers. Protect against wetness and water. No special measures required against explosion and fires. Store away from foodstuffs.

Section 8 – Exposure Controls / Personal Protection

- Engineering Controls:** Use with adequate general and local exhaust ventilation. Washing of the skin in the working area must be possible. Eye-wash bottle must be available.
- Respiratory Protection:** Wear a properly fitted NIOSH approved respirator in poorly ventilated areas and/or if high dust concentrations are encountered.
- Skin Protection:** When installing, wear appropriate protective rubber or plastic gloves to prevent hand-skin exposure. Wear appropriate impervious clothing to prevent skin exposure (long sleeve shirt and long pants).
- Eye Protection:** Wear tightly sealed safety glasses with side shields or goggles. Face shield as necessary.

Exposure Guidelines:	OSHA PEL	ACGIH TLV
Crystalline silica	10 mg/m ³	0.025 mg/m ³
Calcium-magnesium carbonate (limestone)	5 mg/m ³ (respirable fraction) 15 mg/m ³ (total dust)	Not established
Nuisance dust	5 mg/m ³ (respirable fraction) 15 mg/m ³ (total dust)	3 mg/m ³ (respirable fraction) 3 mg/m ³ (total dust)

- Work/Hygienic Practices:** Wash hands before breaks and after work, and before eating, drinking or smoking.

Section 9 – Physical and Chemical Properties

- Physical State:** Powder
- Appearance/Color:** White, grayish-white
- Odor:** Weak, characteristic
- Solubility in water:** Slightly soluble
- Boiling Point:** N/A
- Melting Point:** N/A
- Flash Point:** Not flammable
- Auto ignition:** N/A
- Bulk Density:** approx. 1.6 kg/dm³ (~98 lb/ft³)
- pH (in water):** ~12 (Alkaline)
- VOC Concentration:** 0 g/l

Section 10 – Stability and Reactivity

- Chemical Stability:** Stable under normal temperatures and pressures.
- Materials to Avoid:** Acisa, ammonium salts, aluminum metal
- Conditions to Avoid:** Avoid contact with humidity. Product hydrates (hardens) and becomes unusable.

IDENTITY: Pavemend KemROK-VR™

Hazardous Decomposition Products: No decomposition if used according to specifications.**Hazardous Polymerization:** Will not occur.**Section 11 – Toxicological Information****Acute Inhalation Toxicity:**

<u>Product</u>	<u>Type</u>	<u>Value</u>
Silica, crystalline quartz	LC50	no data available

Acute Oral Toxicity:

Silica, crystalline quartz	LC50 (Oral)	1,300 mg/kg
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Acute Dermal Toxicity

Silica, crystalline quartz	LC50 (Dermal)	no data available
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Primary Irritant Effect:

- On the skin: Irritant for skin and mucous membranes
- On the eye: Irritant effect
- Sensitization: No sensitizing effect known.

Section 12 – Ecological Information

Ecological Information: The unused product is slight water pollutant. Large quantities may be toxic to fish. Do not allow undiluted product or large quantities to reach into waterways or drains.

Section 13 – Disposal Considerations

Waste Disposal Method: Dispose of in a manner consistent with federal, state and local regulations. Do not dispose together with household garbage. Do not allow product to reach sewage system.

Unused Residue or Dry Spillage: Pick up dry material. Possibly reuse depending on amount of contamination. Prevent dust exposure. In case of disposal, harden with water and dispose in accordance to local regulations.

Slurries: Allow to harden and dispose of as described above.

Container disposal: Completely emptied packaging can be given for recycling.

Section 14 – Transport Information

USDOT (Domestic Surface)	Not regulated
IMDG (Ocean) Hazard Class or Division:	Not regulated
IATA/ICAO (Air) Hazard Class or Division:	Not regulated
TDG (Canada):	Not regulated
UN Number:	Not listed

Section 15 – Regulatory Information

SARA 311/312 (RTK): Hazard Categories:	Acute Health:	YES
	Chronic Health:	YES

SARA Section 313 Notification: This product does not contain any ingredients regulated under Section

313 of the Emergency Planning and Community Right-to-Know Act of 1986 or CFR 372.

CERCLA: No CERCLA chemicals exist in this product above reportable concentrations.

TSCA Section 12(b) Export Notification: There are no reportable TSCA 12(b) Chemicals in this product.

<u>State Regulations:</u>	<u>State RTK</u>	<u>CAS Number</u>	<u>Chemical name</u>
	MA, NJ, PA	14808-60-7	Silica, crystalline quartz

California Proposition 65: Warning – This product contains a chemical known to the State of California to cause cancer, birth defects, or other reproductive harm:
CAS 14808-60-7: Silica, crystalline quartz.

Section 16 – Other Information

(Hazard Rating: 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe; * = Chronic)

HMIS III rating:

Health: 1* Flammability: 0 Physical hazard: 0 Personal Protection: B

Abbreviations and acronyms:

USDOT: United States Department of Transportation.
IMDG: International Maritime Code for Dangerous Goods.
IATA: International Air Transport Association.
CAS: Chemical Abstracts Service (Division of the American Chemical Society).
LC50: Lethal concentration, 50 percent.
LD50: Lethal dose, 50 percent.
EC50: Median effective concentration.
RQ: Reportable quantity.

This SDS is on a three year review cycle. If the date on this sheet is older than three years please contact Aquafin, Inc. for an updated SDS.

SDS prepared by: Aquafin product safety department.

DISCLAIMER:

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind, expressed or implied, and we assume no responsibility for any loss, damage, or expense, direct or consequential, arising out of their use. Aquafin shall not be responsible for the use of this product in a manner to infringe on any patent or any other intellectual property rights held by others. User is responsible for determining appropriate safety measures and for applying the legislation covering his own activities. We recommend that user makes tests to determine the suitability of a product for its particular purpose prior to use.

END OF SDS

(January 4, 2019)