Date prepared: **DECEMBER 2015**
Date revised: **MARCH 2019**
SDS No. V.O.1

Section 1 – Product Identification

IDENTITY: *Product Name:* **MORTAR-V/O CI**

Chemical Characterization: **Cement – Preparation**
Product Use Description: **Concrete repair mortar**

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Section 2 – Hazards Identification

GHS Classification:

Skin irritation, Category 2	H315: Causes skin irritation (alkaline when moistened)
Serious eye damage, Category 1	H318: Causes serious eye damage
Respiratory system; Category 3	H335: May cause respiratory irritation
Carcinogenity, Category 1A	H350: May cause cancer

GHS Label element:

Hazard Pictograms

GHS05 GHS07 GHS08

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.
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.

Other Hazards
WARNING! AS WITH ALL POWDERS, MAY FORM COMBUSTILE DUST CONCENTRATION IN AIR

Section 3 – Composition / Information on Ingredients

Product based on cement and mineral filler.

Hazardous Components	CAS No.	TLV	PEL	Weight %
Portland Cement	65997-15-1	10 mg/m^3	5 mg/m^3	10 – 30
Calcium Aluminate Cement	65997-16-2	10 mg/m^3	5 mg/m^3	10 – 30
Crystalline Quartz Silica (SiO_2)	14808-60-7	0.05 mg/m^3	0.1 mg/m^3	40 - 70
Proprietary Formula Enhancing Additives				

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence not require reporting in this section.

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.

Section 5 – Fire Fighting Measures

Extinguishing Media: Carbon dioxide (CO_2), extinguishing powder, water fog, alcohol-resistant foam.

Special Hazards Arising from the Substance or Mixture: As with all dusts, fine particles suspended in air in critical proportions and in the presence of an ignition source may ignite and/or explode. Dust may be sensitive to ignition by electrostatic discharge, electrical arcs, sparks, welding torches, cigarettes, open flame, or other significant heat sources. As a precaution, implement standard safety measures for handling finely divided organic powders.

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).

Additional Information Explosion: Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

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. 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.

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: Cement / gray
Odor: Weak, characteristic
Solubility in water: Fully miscible
Boiling Point: N/A
Melting Point: N/A
Flash Point: Not combustible
Auto ignition: N/A
Bulk Density: approx. 1.4 kg/dm^3 @ 68°F (20°C)
pH (in water): 11 – 13.5 (Alkaline)
VOC Concentration: 0 g/l
Danger of Explosion: As with all dusts, fine particles suspended in air in critical proportions and in the

presence of an ignition source may ignite and/or explode. Dust may be sensitive to ignition by electrostatic discharge, electrical arcs, sparks, welding torches, cigarettes, open flame, or other significant heat sources. As a precaution, implement standard safety measures for handling finely divided organic powders.
Risk of explosion by shock, friction, fire or other sources of ignition.

Section 10 – Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Avoid contact with humidity. Product hydrates (hardens) and becomes unusable.

Hazardous Decomposition Products: No decomposition if used according to specifications.

Hazardous Polymerization: Will not occur.

Incompatibilities: None known.

Section 11 – Toxicological Information

Acute Inhalation Toxicity:

Product	Type	Value
Silica, crystalline quartz	LC50	no data available
Portland cement	LC50	no data available

Acute Oral Toxicity:

Silica, crystalline quartz	LC50 (Oral)	1,300 mg/kg
Portland cement	LC50 (Oral)	2,000 mg/kg

Acute Dermal Toxicity

Silica, crystalline quartz	LC50 (Dermal)	no data available
Portland cement	LC50 (Dermal)	no data available

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

RCRA Hazard Class: Non-hazardous

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.

State Regulations:	State RTK	CAS Number	Chemical name
	MA, NJ, PA	65997-15-1	Cement, Portland, chemicals
	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: 2* Flammability: 0 Physical hazard: 0

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.

SDS prepared by: Aquafin product safety department.

DISCLAIMER:
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END OF SDS (March 13, 2019)