

Date prepared: **JUNE 2019**

SDS No: B.1

Section 1 – Product Identification

IDENTITY: *Product Name:*

BETOCRETE-CP-365-CI

Chemical Characterization: Cement – Preparation

Product Use Description: Cementitious crystalline concrete admixture

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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
Respiratory system; Category 3
Carcinogenity, Category 1A

H315: Causes skin irritation (alkaline when moistened)
H318: Causes serious eye damage
H335: May cause respiratory irritation
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.
H319: Causes serious eye irritation.
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.
P337+ P313: IF eye irritation persists: 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.

Section 3 – Composition / Information on Ingredients

Hazardous Components	CAS No.	TLV	PEL	Weight %
Portland Cement	65997-15-1	10 mg/m ³	5 mg/m ³	25 - 60
Calcium Hydroxide	1305-62-0	10 mg/m ³	5 mg/m ³	2.5 - 10
AQ-IC.1	Trade Secret			10 - 40
Crystalline Quartz Silica (SiO ₂)	14808-60-7	0.05 mg/m ³	0.1 mg/m ³	10 - 40

- The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

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 (CO₂), extinguishing powder, water fog, alcohol-resistant foam.

Special hazards arising from the substance or mixture: Formation of toxic gases is possible during heating or in case of fire. Do not inhale explosion and combustion gases. Burning produces heavy smoke. 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: Concentrated dust may present an explosion hazard. 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.
Do not touch or walk through spilled material.
Keep unauthorized personnel away.
Use extreme caution when dispersing dust in the air. Non-sparking tools/equipment should be used.
- 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 and control ignition sources. Avoid eye and skin contact. Keep out of reach of children.
Use with adequate ventilation.
Wash before eating, drinking, smoking or using toilet facilities.
Wear personal protection equipment recommended in Section 8.
- Fire and explosion protection:** Employ grounding, venting and explosion relief provisions in accord with accepted engineering practices in any process of capable of generating dust and/or static electricity.
Empty only into inert or non-flammable atmospheres.
Emptying contents into a non-inert atmosphere where flammable vapors may be present could cause a flash fire or explosion due to electrostatic discharge.
As a precaution to control dust explosion potential, implement safety measures to control ignition sources and dispersion of dusts. See NFPA standard 654, OSHA 29CFR1910.39 and others for more details.
- 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: >1,000°C (>1,832°F)
Flash Point: Not combustible
Auto ignition: N/A
Bulk Density: approx. 1.09 kg/dm³
pH (in water): 11 – 13.5 (Alkaline)
VOC Concentration: 0 g/l

Section 10 – Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Possibility of hazardous reactions: Material as supplied is not explosive. Toxic fumes may be released if heated above the decomposition point.

Conditions to Avoid: Avoid contact with humidity. Product hydrates (hardens) and becomes unusable. Suspending dust in air. Ungrounded equipment.

Hazardous Decomposition Products: Carbon monoxide and carbon dioxide. Hydrocarbons. Metal oxides. Oxides of phosphorus. Oxides of potassium.

Hazardous Polymerization: Will not occur.

Incompatibilities: Strong oxidants, strong bases, acids, peroxides.

Section 11 – Toxicological Information

Acute Inhalation Toxicity:

<u>Product</u>	<u>Type</u>	<u>Value</u>
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 contains ingredients regulated under Section 313 (specific toxic chemical listings).

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

TSCA Section 12(b) Export Notification: There are reportable TSCA Chemicals in this product.

<u>State Regulations:</u>	<u>State RTK</u>	<u>CAS Number</u>	<u>Chemical name</u>
	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:

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

(June 21, 2019)