

IDENTITY: **AQUAFIN-2K/M (Component-A – Powder)**

MSDS No. 1.1.3.A

Date prepared: **AUGUST 03, 2009**

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**Section 01 - Product Identification**

IDENTITY: *As Used on Label and List:* **AQUAFIN-2K/M (GRAY or WHITE)  
Component – A (Powder)**  
*Chemical Characterization:* **Cement – Preparation**  
*Product Use Description:* **Coating**

AQUAFIN, INC.  
505 BLUE BALL RD. #160  
ELKTON, MD 21921

Emergency Phone No. **(800) 394-1410**  
Information Phone No. **(410) 392-2300**

**Section 02 - Composition/Information on Hazardous Ingredients**

Hazardous Components	CAS No.	TLV	PEL	Weight %
Portland Cement	65997-15-1	10 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	25 – 60
Crystalline Quartz Silica	14808-60-7	0.05 mg/m <sup>3</sup>	0.1 mg/m <sup>3</sup>	40 – 75

**Section 03 - Hazards Identification**

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

HMIS® - Rating	
HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	1
PERSONAL PROTECTION	B

**Hazard Designation**



**Xi Irritant**

WHMIS Class: D2B E

**Potential Health Effects of Overexposure**

**Inhalation:** High dust concentration can be irritating to respiratory system; coughing and labored breathing, possible temporary but reversible irritation in mucous membranes and respiratory tract.

**Ingestion:** Irritating to mouth, throat and stomach.

**Skin Contact:** Can cause slight to moderate irritation. In combination with water, repeated or prolonged dermal exposure can cause moderate to severe alkali burns.

**Eye Contact:** Can cause severe irritation, redness, tearing and blurred vision. Prolonged or repeated contact can cause burns and possibly corneal injury.

**Chronic Exposure:** This product contains Crystalline (quartz) Silica which has been listed as a human carcinogen by NTP (Group 1) and IARC (Human Carcinogen) and a Suspected Human Carcinogen by ACGIH (Category A2). Repeated or prolonged over exposure to free respirable Crystalline (quartz) Silica or silica can cause silicosis or other delayed and serious lung injury.

**Section 04 – 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.

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## Section 05 – Fire Fighting Measures

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- Flash Point:** Not combustible.
- Autoignition:** N/A (Not Applicable)
- Extinguishing Media:** Carbon dioxide (CO<sub>2</sub>), extinguishing powder, water fog, alcohol-resistant foam.
- 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).

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## Section 06 - Accidental Release Measures

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

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## Section 07 – Handling and Storage

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- 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. No special measures required against explosion and fires. Store away from foodstuffs.

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## Section 08 – Exposure Controls / Personal Protection

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- 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 09 – Physical and Chemical Properties**

**Physical State:** Powder  
**Appearance/Color:** Cement gray or white  
**Odor:** Odorless  
**Solubility in water:** Miscible  
**pH:** N/A (Not Applicable)  
**Boiling Point:** N/A  
**Melting Point:** N/A  
**Bulk Density:** approx. 1.46 kg/dm<sup>3</sup>  
**pH:** 11 – 13.5  
**VOC Concentration:** 0 g/l

**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:**

<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 waters or drains.

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**Section 13 – Disposal Considerations**

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**Waste Disposal Method:** Dispose of in a manner consistent with federal, state and local regulations.

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**Section 14 – Transport Information**

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**RCRA Hazard Class:** Non-hazardous.

**DOT (Domestic Surface) Hazard Class or Division:** Not regulated  
**IMO (Ocean) Hazard Class or Division:** Not regulated  
**ICAO (Air) Hazard Class or Division:** Not regulated.

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**Section 15 – Regulatory Information**

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**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.

**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.

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

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**Section 16 – Other Information**

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**END OF MSDS**

(August 3, 2009)