

Date prepared: **JULY 2017**

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SDS No. E.1.6.1

Section 1 – Product Identification

IDENTITY: *Product Name:* **InjectProECO-SEAL**
Product Use Description: **Hydrophilic Polyurethane Injection Grout**

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

24 hr Emergency Phone: Chem-Tel **(800) 255-3924**
Information Phone No. **(410) 392-2300**
www.aquafin.net info@aquafin.net

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:

Resp. Sens. 1	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Carc. 2	H351	Suspected of causing cancer.
STOT RE 2	H373	May cause damage to organs through prolonged or repeated exposure.
Acute Tox. 4	H332	Harmful if inhaled.
Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2A	H319	Causes serious eye irritation.
Skin Sens. 1	H317	May cause an allergic skin reaction.
STOT SE 3	H335	May cause respiratory irritation.

GHS Label element:

Hazard Pictograms



GHS07

GHS08

Signal Word: **Danger**

Hazard Statements:

H332:	Harmful if inhaled.
H315:	Causes skin irritation.
H319:	Causes serious eye irritation.
H334:	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317:	May cause an allergic skin reaction.
H351:	Suspected of causing cancer.
H335:	May cause respiratory irritation.
H371:	May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements:

Prevention:

P102:	Keep out of reach of children.
P260:	Do not breathe mist, vapors or spray.
P264:	Wash skin thoroughly after handling.
P271:	Use only outdoors or in a well-ventilated area.
P270:	Do not eat, drink or smoke when using this product.
P280:	Wear protective gloves/protective clothing/eye protection/face protection.
P285:	In case of inadequate ventilation wear respiratory protection.
P201:	Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.
P272: Contaminated work clothing must not be allowed out of the workplace.

Response:

P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
P333 + P313: IF SKIN irritation or rash occurs, get medical attention.
P362: Take off contaminated clothing and wash before reuse.
P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P342 + P311: If experiencing respiratory symptoms, call a POISON CENTER or physician.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313: IF eye irritation persists, get medical advice/attention.
P309 + P310 + P313: IF exposed or concerned: Get medical advice/attention. Call a POISON CENTER/doctor if you feel unwell. Get medical advice/attention if you feel unwell.

Storage:

P403 + P410: Store in a well-ventilated place. Protect from sunlight.
P405: Store locked up.

Disposal:

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

Section 3 – Composition / Information on Hazardous Ingredients

Component:	CAS No.	% (Weight)
Prepolymeer, reactieproduct van methyldifenyl-diisocynaat en polyetherpolyol triethyl phosphate	78-40-0	50-100%
4,4'-Methylenediphenyl-diisocyanate, oligomers	101-68-8	10 - 25%
diphenylmethanediisocyanate, isomeres and homologues	9016-87-9	2.5 - 10 %

Note: 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 require reporting in this section.

Section 4 – First Aid Measures

General information: Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Inhalation: Supply fresh air and consult a physician if breathing becomes difficult. In case of unconsciousness place patient stably in side position for transportation.

Ingestion: Immediately drink plenty of milk or water and get medical attention.

Skin Contact: Immediately wash with water and soap and rinse thoroughly. Do not use solvents or thinners. Remove contaminated clothing and shoes. Seek medical advice if irritation or rash occurs. Wash clothing before reuse.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Remove contact lenses, if present. Seek medical attention if irritation persists.

Section 5 – Fire Fighting Measures

- Extinguishing Media:** Use water fog, foam, dry chemical or carbon dioxide.
- Fire Fighting Procedures:** Standard. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Containers can build up pressure if exposed to heat (fire). Cool with water spray. Do not scatter material with high pressure water streams.
- Hazardous Combustion Products:** Product does not present an explosion hazard.
- Unusual Fire and Explosion Hazards:** Product does not present an explosion hazard.

Section 6 – Accidental Release Measures

- Person-related Safety Precautions:** Provide plenty of fresh air. Avoid eye and skin contact. Avoid inhalation of vapors. Wear personal protective equipment.
- Methods for cleaning-up:** Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. Small spills: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Large spills: Create a dike or trench to contain product. Follow same procedure as for a small spill.
- Waste Disposal Method:** Dispose in accordance with local, state and federal regulations.
- Ecological Information:** Do not allow product to reach ground water, bodies of water, or storm water or sewage systems.

Section 7 – Handling and Storage

- Handling:** Avoid contact with eyes, skin and clothing. Wash skin thoroughly after handling. Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. Keep container closed when not in use.
- Storage:** Keep container tightly closed when not in use. Do not store in direct sunlight.
- Storage Temperature:** 4°C – 32°C (~40°F - ~90°F).

Section 8 – Exposure Controls / Personal Protection

- Engineering Controls:** Use adequate ventilation.
- Respiratory Protection:** Use local exhaust ventilation. In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- Skin Protection:** Wear chemical resistant protective clothing and footwear impervious to the product if there is a potential for skin contact.

- Hand Protection:** Glove(s): neoprene. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
- Eye Protection:** Use tightly sealed safety goggles.
- Other Protective Equipment:** A safety shower and eye wash fountain should be readily available.
- Work/Hygienic Practices:** Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

Section 9 – Physical and Chemical Properties

- Physical state:** Liquid
- Color:** Light Yellow
- Odor:** Sweetish
- Solubility in water:** Insoluble, reacts with water
- Flash point:** 401°F (205°C)
- Flammability:** N/A
- Viscosity at 25°C:** Not Determined.
- Ignition temperature:** 855°F (457°C)
- Danger of explosion:** Product does not present an explosion hazard.
- Solvent content (reactive diluent):** Organic solvents: 20.5 %
VOC content: 20.5 %
204.8 g/l / 1.71 lb/gl

Section 10 – Stability and Reactivity

- Reactivity:** No dangerous reaction known under conditions of normal use.
- Chemical Stability:** Stable under normal temperatures and pressures. Keep away from heat sources.
- Hazardous decomposition:** No decomposition if used according to specifications.
- Conditions To Avoid:** No further relevant information available.
- Incompatibilities:** This product will react with any materials containing active hydrogens such as water, alcohol, amines, bases and acids. The reaction with water is very slow under 50°C (122°F), but is accelerated at higher temperatures.

Section 11 – Toxicological Information

Acute toxicity:

LD/LC50 values that are relevant for classification:

78-40-0 triethyl phosphate

- | | | |
|------------|----------|-------------------|
| Oral | LD50 | 1311 mg/kg (rat) |
| Dermal | LD50 | >2000 mg/kg (rat) |
| Inhalative | LC50/4 h | >8.817 mg/l (rat) |

4,4'-Methylenediphenyldiisocyanate

Oral LD50 >5000 mg/kg (rat)
Dermal LD50 >9400 mg/kg (rabbit)

9016-87-9 diphenylmethanediisocyanate

Oral LD50 >10000 mg/kg (rat)
Dermal LD50 >9400 mg/kg (rabbit)

Carcinogenicity:

IARC: 9016-87-9 diphenylmethanediisocyanate, (3)

NTP: Not regulated as a carcinogen.

OSHA: Not regulated as a carcinogen.

Section 12 – Ecological Information

Ecotoxicological Information:

Aquatic toxicity:

78-40-0 triethyl phosphate

EC50/48 h 350 mg/l (daphnia)

EC50/72 h 900 mg/l (algae)

4,4'-Methylenediphenyldiisocyanate

LC50/96 h >1000 mg/l (fish)

EC50/24 h >1000 mg/l (daphnia)

EC50/72 h >1640 mg/l (algae)

9016-87-9 diphenylmethanediisocyanate

EC50/24 h >1000 mg/l (daphnia)

EC50/96 h >1000 mg/l (fish)

EC50/72 h >1640 mg/l (algae)

General notes: Water hazard class 1 (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Section 13 – Disposal Considerations

Product waste: Must be disposed of in a manner consistent with federal, state and local regulations.

Packaging waste: Decontaminate and pass to an approved drum recycler or destroy and dispose of in a manner consistent with federal, state and local regulations.

RCRA/EPA Waste Information: If discarded in its purchased form, this material is not a RCRA hazardous waste.

Section 14 – Transport Information

USDOT (Domestic Surface): Not regulated

IMO (Ocean): Not regulated

IATA/ICAO (Air): Not regulated

Section 15 – Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Sara**Section 355 (extremely hazardous substances):** None of the ingredients is listed.**Section 313 (Specific toxic chemical listings):**

9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

TSCA (Toxic Substances Control Act):

78-40-0 triethyl phosphate

4,4'-Methylenediphenyldiisocyanate, oligomers

9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

Proposition 65:**Chemicals known to cause cancer:** None of the ingredients is listed.**Chemicals known to cause reproductive toxicity for females, males and developmental toxicity:**

None of the ingredients is listed.

Carcinogenic categories:**EPA (Environmental Protection Agency):** 9016-87-9 diphenylmethanediisocyanate**TLV (Threshold Limit Value established by ACGIH):** None of the ingredients is listed.**NIOSH-Ca (National Institute for Occupational Safety and Health):** None of the ingredients is listed.**National Response Center:** Any spill or release to the environment above RQ must be reported to the National Response Center (800-424-8802).**Section 16 – Other Information****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.

RQ: Reportable quantity.

SDS prepared by: Aquafin product safety department.**DISCLAIMER:**

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END OF SDS

(January 30, 2019)