

Date prepared: JANUARY 2020  
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SDS No. E.1.1

## Section 1 – Product Identification

IDENTITY: *Product Name:* **InjectProECO-Polygel**  
*Product Use Description:* PU injection resin - waterproofing

AQUAFIN, INC.  
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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:

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.

### GHS Label element:

#### Hazard Pictograms



GHS07



GHS08

Signal Word: **Danger**

### Hazard Statements:

H332 Harmful if inhaled.  
H315 Causes skin irritation.  
H320 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.  
H373 May cause damage to organs through prolonged or repeated exposure.

### Precautionary Statements:

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P260 Do not breathe dust/fume/gas/mist/vapors/spray.  
P285 In case of inadequate ventilation, wear respiratory protection.  
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P264 Wash thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P272 Contaminated work clothing must not be allowed out of the workplace.

**Prevention:**

- P305+351+338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P342+311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
- P304+340+312 If INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
- P363 Wash contaminated clothing before reuse.

**Response:**

- P308+313 If exposed or concerned: Get medical advice/attention.
- P333+313 If skin irritation or rash occurs: Get medical advice/attention.
- P337+313 If eye irritation persists: Get medical advice/attention.
- P314 Get medical advice/attention if you feel unwell.
- P303+352+362 If ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

**Storage:**

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

**Disposal:**

- P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

**Section 3 – Composition / Information on Ingredients**

Mixture of the substances listed below with nonhazardous additions.

<u>Hazardous Components</u>	<u>CAS No.</u>	<u>Weight %</u>
Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1), polymer with 1,3-diisocyanatomethylbenzene	57516-88-8	25 - 50
Prepolymer, reactive product with a methylidenediphenyldiisocyanate and polyether polyol		10 - 25
triethyl phosphate	78-40-0	2.5 - 10
4,4'-Methylenediphenyldiisocyanate, oligomers		2.5 - 10
m-tolyldiene diisocyanate	26471-62-5	0 – 2.5
Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl) phenylisocyanate		≤ 2.5
diphenylmethanediisocyanate, isomers and homologues	9016-87-9	≤ 2.5

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**

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

**After Inhalation:** Supply fresh air and be sure to call for a doctor. In case of unconsciousness, place patient stably on side position for transportation.

- After Ingestion:** Immediately seek medical attention. Do not induce vomiting without medical advice.
- After Skin Contact:** Immediately wash with water and soap and rinse thoroughly. Seek medical attention if symptoms persist.
- After Eye Contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

### Section 5 – Fire Fighting Measures

- Extinguishing Media:** Carbon dioxide (CO<sub>2</sub>), extinguishing powder or water spray. Fight larger fires with water spray or 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.

### Section 6 – Accidental Release Measures

- Person-related Safety Precautions:** Not required.
- Environmental precautions:** Prevent material from reaching sewage and drainage systems or bodies of water.
- Methods for Cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

### Section 7 – Handling and Storage

- Handling:** Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- Storage:** Store in tightly closed containers.

### Section 8 – Exposure Controls / Personal Protection

- Engineering Controls:** Use with adequate general and local exhaust ventilation.
- Respiratory Protection:** 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:** The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
- Eye Protection:** Wear tightly sealed goggles.
- 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.

Exposure Limits:	CAS NUMBER	OSHA/PEL	ACGIH/TLV Short-term	ACGIH/TLV S Long-term
COMPONENT				
m-tolylidene diisocyanate	26471-62-5	0.02 ppm (Ceiling)	0.02 ppm	0.005 ppm

## Section 9 – Physical and Chemical Properties

<b>Physical State:</b>	Liquid.
<b>Appearance/Color:</b>	Clear Yellow.
<b>Odor:</b>	Characteristic.
<b>Solubility in water:</b>	Not miscible or difficult to mix.
<b>Boiling Point:</b>	Undetermined.
<b>Melting Point:</b>	Undetermined.
<b>Flash Point:</b>	Not applicable.
<b>Auto ignition:</b>	Product is not self-igniting.
<b>pH (in water):</b>	Reacts with water.
<b>VOC Concentration:</b>	42.6 g/l / 0.36 lb/gl.

## Section 10 – Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures.

**Conditions to Avoid:** No further relevant information available.

**Hazardous Decomposition Products:** No dangerous decomposition products known.

**Incompatibilities:** No further relevant information available.

## Section 11 – Toxicological Information

### Primary irritant effect:

**On the skin:** no irritant effect.

**On the eye:** Irritating effect.

**Sensitization:** Sensitization possible through inhalation. Sensitization possible through skin contact.

### Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Toxic, Harmful, Irritant.

### LD/LC50 values that are relevant for classification:

#### 4,4'- Methylenediphenyldiisocyanate, oligomers

Oral LD50 >5000 mg/kg (rat)  
Dermal LD50 >9400 mg/kg (rabbit)  
Inhalative LC50/4 h 0.49 mg/l (rat)

#### 9016-87-9 diphenylmethanediisocyanate, isomers and homologues

Oral LD50 >10000 mg/kg (rat)  
Dermal LD50 >9400 mg/kg (rabbit)  
Inhalative LC50/4 h 0.49 mg/l (rat)

### Carcinogenic categories:

#### IARC (International Agency for Research on Cancer)

26471-62-5 m-tolylidene diisocyanate 2B  
9016-87-9 diphenylmethanediisocyanate, isomers and homologues  
101-68-8 4,4'-methylenediphenyl diisocyanate

### NTP (National Toxicology Program):

26471-62-5 m-tolylidene diisocyanate R.

**OSHA-Ca:** None of the ingredients are listed.

**Section 12 – Ecological Information**

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

**Toxicity****Aquatic toxicity:****9016-87-9 diphenylmethanediisocyanate, isomers and homologues**

EC50/24 h &gt;1000 mg/l (daphnia)

EC50/96 h &gt;1000 mg/l (fish)

EC50/72 h &gt;1640 mg/l (algae)

**4,4'-Methylenediphenyldiisocyanate, oligomers**

LC50/96 h &gt;1,000 mg/l (zebrafish)

EC50/24 h &gt;1,000 mg/l (daphnia)

EC50/96 h &gt;1,000 mg/l (fish)

EC50/72 h &gt;1,640 mg/l (algae)

**Section 13 – Disposal Considerations**

**Waste Disposal Method:** Must not be disposed together with household garbage. Do not allow product to reach sewage system.

**Container disposal:** Disposal must be made according to official regulations.

**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 regulated

**Section 15 – Regulatory Information**

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

**SARA Section 313 Notification:** 26471-62-5 m-tolylidene diisocyanate  
9016-87-9 diphenylmethanediisocyanate, isomers and homologues

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

**TSCA Section 12(b) Export Notification:**

- 57516-88-8 Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1), polymer with 1,3-diisocyanatomethylbenzene  
2,2,4-Trimethyl-1,3-pentanediol diisobutyrate
- 78-40-0 triethyl phosphate  
4,4'-Methylenediphenyldiisocyanate, oligomers
- 26471-62-5 m-tolyldiene diisocyanate
- 9016-87-9 diphenylmethanediisocyanate, isomers and homologues

**California Proposition 65:** None of the ingredients are listed.

**EPA (Environmental Protection Agency)**

9016-87-9 diphenylmethanediisocyanate, isomers and homologues

**TLV (Threshold Limit Value established by ACGIH)**

26471-62-5 m-tolyldiene diisocyanate

**NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients are listed.

**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.  
ACGIH: American Conference of Governmental Industrial Hygienist  
CAS: Chemical Abstracts Service (Division of the American Chemical Society).  
VOC: Volatile Organic Compounds (USA, EU)  
LC50: Lethal concentration, 50 percent.  
LD50: Lethal dose, 50 percent.  
PEL: Permissible Exposure Limit  
REL: Recommended Exposure Limit

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

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**END OF SDS**

(January 31, 2020)