IDENTITY: VAPORTIGHT COAT®-SG4

“COMPONENT-A” – RESIN (IRRITANT)

IDENTITY: Product Name: VAPORTIGHT COAT®-SG4 (SDS 1 of 2)
Chemical Characterization: EPOXY RESIN (IRRITANT) “COMPONENT-A”

AQUAFIN, INC.
505 BLUE BALL RD., NO. 160
ELKTON, MD 21921

Recommended use of the chemical and restriction on use: Refer to the product technical data sheet.
For industrial and professional users.

GHS Classification:
Skin irritation, Category 2 H315: Causes skin irritation.
Sensitization, Skin, Category 1 H317: May cause an allergic skin reaction.
Eye irritation, Category 2A H319: Causes serious eye irritation.

Hazard-determining components of labelling:
Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)
1,6-bis(2,3-ethoxypropoxy)hexane
1,3-propanediol, 2-ethyl-2-(hydroxymethyl)-, polymer with 2-(chloromethyl)oxirane
bisphenol-F-epoxy resin

GHS Label element:

Hazard Pictograms

GHS07

Signal Word: Warning

Hazard Statements:
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.

Precautionary Statements:
Prevention:
P102: Keep out of reach of children.
P264: Wash skin thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P280: Wear eye protection/face protection.
P280: Wear protective gloves.
P281: Use protective equipment as required.

Response:
P301 + P315: IF SWALLOWED: Get immediate medical advice/attention.
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...
IDENTITY: VAPORTIGHT COAT®-SG4
“COMPONENT-A” – RESIN (IRRITANT)

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.

Section 3 – Composition / Information on Ingredients

Description: Solvent-free preparation based on Bisphenol-A-Epichlorhydrin resin molecular weight ≤700.

<table>
<thead>
<tr>
<th>COMPONENTS</th>
<th>CAS NUMBER</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>WEIGHT %</th>
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<tr>
<td>bisphenol-A-(epichlorhydrin) epoxy resin</td>
<td>25068-38-6</td>
<td>Not Estab.</td>
<td>Not Estab.</td>
<td>50-100%</td>
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<td>(number average molecular weight ≤700)</td>
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<td>Skin Irrit. 2, H315; Eye Irrit. 2A, H319;</td>
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<td></td>
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<tr>
<td>Skin Sens. 1, H317</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,6-bis(2,3-ethoxypropoxy)hexane</td>
<td>16096-31-4</td>
<td>Not Estab.</td>
<td>Not Estab.</td>
<td>10-25%</td>
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<tr>
<td>Skin Irrit. 2, H315; Eye Irrit. 2A, H319;</td>
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<tr>
<td>Skin Sens. 1, H317</td>
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</tr>
<tr>
<td>1,3-propanediol, 2-ethyl-2-(hydroxymethyl)-,</td>
<td>30499-70-8</td>
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<td>Not Estab.</td>
<td>10-25%</td>
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<td>polymer with 2-(chloromethyl) oxirane</td>
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<tr>
<td>Skin Sens. 1, H317</td>
<td>9003-36-5</td>
<td>Not Estab.</td>
<td>Not Estab.</td>
<td>2.5-10%</td>
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<td>bisphenol-F-epoxy resin</td>
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<tr>
<td>Skin Sens. 1, H317</td>
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</tr>
</tbody>
</table>

Section 4 – First Aid Measures

General: Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the incident. Personal protection for the First Aider.

After Inhalation: Remove subject to fresh air. Administer oxygen if difficulty with breathing. Consult a physician for safety reasons.

After Ingestion: Immediately seek medical attention. Do not induce vomiting. Drink plenty of water to dilute stomach contents. Do not give household remedy’s (i.e. milk, alcohol, etc.).

After Skin Contact: Instantly wash skin with plenty of soap and water for at least 15 minutes. Wash clothing before reuse. Do not use solvents to clean the skin.

After Eye Contact: Rinse opened eye with plenty of running water for at least 15 minutes, lifting upper and lower eyelids occasionally. Remove contact lenses. Consult physician if symptoms persist.

Section 5 – Fire Fighting Measures

Extinguishing Media: Carbon dioxide (CO₂), extinguishing powder, water spray. Fight larger fires with water spray.

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: Bursting and explosion of container possible due to increase of pressure when exposed to increasing heat. In case of fire, cool nearby containers with water spray. Formation of poisonous gases during heating or in fires.

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. Remove or eliminate all ignition sources.

Methods for Cleaning up: Contain and collect spillage with non-combustible, absorbent materials. i.e. sand, earth, vermiculate, diatomaceous earth, universal binders, sawdust and place in container for disposal.

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, storm water or sewage systems.

Section 7 – Handling and Storage

Handling: Avoid eye and skin contact. Keep out of reach of children.

Storage: Keep away from heat and direct sunlight. Store in a cool, dry enclosed area off the ground in tightly closed/sealed containers. No special measures required against explosion and fires. Store away from foodstuffs. Provide fresh air when handling in closed rooms (open windows and doors). Protect from frost.

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 station or bottle must be available.

Respiratory Protection: Respirator in well ventilated areas not necessary. Wear a properly fitted NIOSH approved respirator in poorly ventilated areas or spillage.

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: Liquid
Appearance/Color: Clear
Odor: Weak, characteristic
Solubility in water: Not miscible or difficult to mix
Boiling Point: Not determined
Melting Point: Not determined
Flash Point: Not applicable
Flammability: Does not self-ignite
**SAFETY DATA SHEET**

**IDENTITY:** VAPORTIGHT COAT®-SG4

**"COMPONENT-A" – RESIN (IRRITANT)**

**Explosion:** Does not explode

**Bulk Density:** 1.14 kg/dm³ (9.5 lbs/gal) at 20°C (68°F)

**Viscosity:** (dynamic) 730 cps (mPas) at 20°C (68°F)

**VOC Concentration:** 0 g/l

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**Section 10 – Stability and Reactivity**

**Chemical Stability:** Stable under normal conditions.

**Conditions to Avoid:** Keep away from heat, ignition sources and incompatible materials.

**Hazardous Decomposition:** Dangerous emissions of various decomposition products can be formed when exposed to heat.

**Incompatibilities:** Avoid contact with acids and oxidizers. Violent reactions can occur.

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**Section 11 – Toxicological Information**

**Acute Toxicity:**

- **25068-38-6**  bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)
  - Oral LD₅₀ >5000 mg/kg (rat)
  - Dermal LD₅₀ >2000 mg/kg (rat)

- **16096-31-4**  1,6-bis(2,3-ethoxypropoxy)hexane
  - Oral LD₅₀ 1400 mg/kg (rabbit)
  - LD₅₀ 2900 mg/kg (rat)
  - Inhalative LC₅₀/₄ h >100 mg/l (mouse)

- **9003-36-5**  bisphenol F-epoxy resin
  - Oral LD₅₀ >10000 mg/kg (rat)
  - Dermal LD₅₀ >2000 mg/kg (rat)

**Primary Irritation:**

- **Skin:** irritant to skin and mucous membranes.
- **Eyes:** irritating effect.
- **Sensibility:** may cause an allergic skin reaction.

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**Section 12 – Ecological Information**

**Aquatic toxicity:**

- **25068-38-6**  bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)
  - EC₅₀ (48 h) 1.7 mg/l (Daphnia magna)
  - LC₅₀ (96 h) 2.0 mg/l (Rainbow trout)

- **9003-36-5**  bisphenol F-epoxy resin
  - EC₅₀ 2.55 mg/l (Daphnia magna)
  - LC₅₀ (96 h) 2.54 mg/l (Leuciscus idus)
  - ERC₅₀ 1.8 mg/l (Algae toxicity)

**Bioaccumulative potential:** No further relevant information available.

**Mobility in soil:** No further relevant information available.

**Remark:** Toxic for fish. Do not allow product or large quantities to reach into waterways or drains.

**General notes:** Water hazard class 2 (Self-assessment): hazardous for water. Do not allow product to reach ground water, bodies of water, or storm water or sewage systems.
Section 13 – Disposal Considerations

Waste Disposal Method: Dispose of in a manner consistent with federal, state and local regulations. This includes pails containing uncured material. Pails with cured/hardened remains of product can be sent for recycling.

Recommendation: Product mixed with hardener and fully cured is ecologically save and can be disposed to local refuse deposit or recycling facility. Empty containers with solid product rests can be sent for recycling. Empty containers containing liquid product rests are hazardous waste.

Section 14 – Transport Information

USDOT (Domestic Surface): UN 3082 Not regulated.

IATA/ICAO (Air): UN 3082 Environmentally hazardous substance, liquid, NOS (bisphenol A-(epichlorhydrin), epoxy resin (number average molecular weight<700), 1,6-Hexanediol diglycidylether. 9, PG III.

IMDG (Ocean): UN 3082 Environmentally hazardous substance, liquid, NOS (bisphenol A-(epichlorhydrin), epoxy resin (number average molecular weight<700), 1,6-Hexanediol diglycidylether. Marine pollutant. 9, PG III.

Section 15 – Regulatory Information

All raw materials are on the U.S., EPA, TSCA Inventory.

SARA Notification: Nothing in this product is subject to regulation under SARA 302, 313. It may be subject to SARA 312 reporting, depending upon the purchaser’s storage circumstances.

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

Clean Air Act:

Ozone-Depletion Potential: This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section (40 CFR 61).

Section 16 – Other Information

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

HMIS III rating:

Health: 2* Flammability: 1 Physical hazard: 1 Personal Protection: B

Abbreviations and acronyms:

USDOT: United States Department of Transportation.
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.
EC50: Median effective concentration.
RQ: Reportable quantity.

This SDS is on a three year review cycle. If the date on this sheet is older than three years please contact Aquafin, Inc. for an updated SDS.

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 (October 9, 2017)