Date prepared: JANUARY 2006
Date revised: **JANUARY 2019** SDS No 5.1.1.A1

## Section 1 – Product Identification

**IDENTITY:** *Product Name:* **VAPORTIGHT COAT®-SG2** (SDS 1 of 2)
*Chemical Characterization:* EPOXY RESIN (IRRITANT) **"COMPONENT-A"**

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

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

Skin irritation, Category 2
Skin sensitization, Category 1
Eye irritation, Category 2A
Harmful to aquatic life, Category 3

H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H412: Harmful to aquatic life with long lasting effects.

### 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.
H412: Harmful to aquatic life with long lasting effects.

Precautionary Statements:
**Prevention:**
P102: Keep out of reach of children.
P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
P264: Wash skin thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
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 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.
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 Hazardous Ingredients

**Description:** Solvent-free preparation based on bisphenol-A-epichlorhydrin resin molecular weight ≤700.

| COMPONENTS | CAS NUMBER | OSHA PEL | ACGIH TLV | WEIGHT % |
|---|---|---|---|---|
| bisphenol-A-(epichlorhydrin) epoxy resin | 25068-38-6 | Not Estab. | Not Estab. | 10-25% |
| 1,6-bis(2,3-ethoxypropoxy)hexane | 16096-31-4 | Not Estab. | Not Estab. | 10-25% |
| Titanium dioxide | 13463-67-7 | Not Estab. | Not Estab. | 2.5-10% |
| Solvent naphta (petroleum), light arom. | 64742-95-6 | Not Estab. | Not Estab. | <1% |

**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

**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. Drink plenty of water to dilute stomach contents.

**After Skin Contact:** Instantly wash skin with plenty of soap and water for at least 15 minutes. Wash clothing before reuse.

**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.

## Section 5 – Fire Fighting Measures

**Extinguishing Media:** Carbon dioxide ($CO_2$), extinguishing powder, water fog.
Do not use full water jet.

**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 fog.

## 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. Emergency procedures are not required.

**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, or storm water or sewage systems.

## Section 7 – Handling and Storage

**Handling:** 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. Provide fresh air when handling in closed rooms (open windows and doors).

## 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.

**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:** | White |
| **Odor:** | Weak, characteristic |
| **Solubility in water:** | Not miscible or difficult to mix |
| **Flash Point:** | >100° C (>212 ° F) |
| **Flammability:** | Does not self-ignite |
| **Explosion:** | Does not explode |
| **Boiling Point:** | Not determined |
| **Melting Point:** | Not determined |
| **Bulk Density:** | 1.98 kg/dm$^3$ at 20°C (68°F) |
| **Viscosity:** (dynamic) | 16000 cps (mPas) at 20°C (68°F) |
| **pH-value:** | 10 at 20°C (68°F) |
| **VOC Concentration:** | 0 g/l |

## 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.

## Section 11 – Toxicological Information

**Acute Toxicity:**

| | | |
|---|---|---|
| 13462-86-7 | Barytmehl N | |
| Oral | LD50 | >15000 mg/kg (rat) |

| | | |
|---|---|---|
| 25068-38-6 | bisphenol-A (epichlorhydrin) epoxy resin with 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 | 2,900 mg/kg (rat) |
| Dermal | LD50 | 1.400 mg/kg (rabbit) |
| Inhalation | LC50/4 h | >100 mg/l (mouse) |

| | | |
|---|---|---|
| 64742-95-6 | Solvent naphta (petroleum), light arom. | |
| Oral | LD50 | >2000 mg/kg (rat) |
| Dermal | LD50 | >2000 mg/kg (rabbit) |
| Inhalation | LC50/4 h | >5 mg/l (rat) |

**Primary Irritation:**

- **Skin:** irritates skin and mucous membrane.
- **Eyes:** irritating
- **Sensibility:** sensibility through contact with skin possible.

## Section 12 – Ecological Information

**Aquatic Toxicity:**

| | | |
|---|---|---|
| 25068-38-6 | bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700) | |
| | EC50 | (24 h) 3.6 mg/l (Daphnia magna) |
| | LC50 | (96 h) 1.5 mg/l (Rainbow trout) |

| | | |
|---|---|---|
| 64742-95-6 | Solvent naphta (petroleum), light arom. | |
| | LC/EC/IC 50 | 1-10 mg/l (Algae toxicity) |
| | 1-10 mg/l | (Daphnia (acute) toxicity)) |

**Persistence and Degradability:**

| | | |
|---|---|---|
| 25068-38-6 | bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700) | |
| 301B (Mod. Sturm) | | 12% (-) |

**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.

## Section 14 – Transport Information

**USDOT (Domestic Surface):** **UN 3082** Not regulated.

**IATA/ICAO (Air):** UN 3082 Environmentally hazardous substances, liquid, NOS, (bisphenol A-epichlorhydrin); epoxy resin (number average molecular weight<700) 9, PG III

**IMDG (Ocean):** UN 3082 Environmentally hazardous substances, liquid, NOS, (bisphenol A-epichlorhydrin), (Marine pollutant); epoxy resin (number average molecular weight<700) 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

**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. |
| EC50: | Median effective concentration. |
| RQ: | Reportable quantity. |

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

**END OF SDS** (January 22, 2019)

Date prepared: JANUARY 2006
Date revised: **JANUARY 2019** SDS No 5.1.1.B1

## Section 1 – Product Identification

**IDENTITY:** *Product Name:* **VAPORTIGHT COAT®-SG2** (SDS 2 of 2)
*Chemical Characterization:* EPOXY HARDENER (CORROSIVE) **"COMPONENT-B"**

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

Flammable liquids, Category 4
Aspiration hazard, Category1
Skin corrosion/irritation, Category 1B
Sensitization, Skin, Category 1
Eye damage, Category 1
Harmful to aquatic life, Category 3

H227: Combustible liquid.
H304: May be fatal if swallowed and enters airways
H314: Causes severe skin burns and eye damage.
H317: May cause an allergic skin reaction.
H318: Causes serious eye damage.
H412: Harmful to aquatic life with long lasting effects.

### GHS Label element:

### Hazard Pictograms


GHS05


GHS07


GHS08

Signal Word: Danger

Hazard Statements:
H304: May be fatal if swallowed and enters airways
H314: Causes severe skin burns and eye damage.
H317: May cause an allergic skin reaction.
H318: Causes serious eye damage.
H412: Harmful to aquatic life with long lasting effects.
H227: Combustible liquid.

Precautionary Statements:
**Prevention:**
P102: Keep out of reach of children.
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P264: Wash skin thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P272: Contaminated work clothing should not be allowed out of the workplace.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P281: Use protective equipment as required.

**Response:**
P301 + P315: IF SWALLOWED: Get immediate medical advice/attention.
P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

| | | |
|---|---|---|
| P302 + P352 = P361: | IF ON SKIN: | Remove/Take off immediately all contaminated clothing. 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 IN EYES: | 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 + P235: | Store in a well-ventilated place. Keep cool. |
| P405: | Store locked up. |

**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 Hazardous Ingredients

**Description:** Modified cycloaliphatic polyamine.

| COMPONENTS | CAS NUMBER | WEIGHT |
|---|---|---|
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine | 2855-13-2 | 50-100% |
| Naphtha (petroleum), hydrotreated heavy | 64742-48-9 | 25-50% |
| 2,4,6-tris-(dimethylaminomethyl)phenol | 90-72-2 | 2.5-10% |
| Bis(dimethylaminomethyl)phenol | 71074-89-0 | <2.5% |

**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 Advise:** Immediately remove contaminated clothing. Exposure symptoms can appear after several hours. If contaminated, consult medical advise up to 48 hours after exposure.
First Aid: Wear protective equipment (i.e. protective gloves).
If victim is unconscious: position and transport in “stable sideways position” to prevent asphyxiation if vomiting. Keep air passages open, remove dentures and vomit. Control breathing and pulse. If breathing and heart activity stops, administer CPR and call immediately emergency services.

**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. Drink plenty of water to dilute stomach contents.

**After Skin Contact:** Do not use thinners or other solvents. Instantly wash skin with plenty of soap and cold water for at least 15 minutes. Remove affected clothes instantly. Wash clothing before reuse.

**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.

## Section 5 – Fire Fighting Measures

**Auto-ignition:** Product is not self-igniting and not explosive.

**Extinguishing Media:** Carbon dioxide ($CO_2$), extinguishing powder, foam, water spray. Do not use full water jet.

**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 fog. Formation of poisonous gases during heating or in fires possible.

## 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:** 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. Provide fresh air when handling in closed rooms (open windows and doors).

## 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 impervious gloves (neoprene) to prevent hand-skin exposure. Wear appropriate impervious clothing to prevent skin exposure (long sleeve shirt and long pants).

**Eye Protection:** Wear chemical splash goggles. Face shield as necessary.

**Work/Hygienic Practices:** Wash hands before breaks and after work, and before eating, drinking or smoking. Know the locations of eye wash fountains and emergency showers.

## Section 9 – Physical and Chemical Properties

| | |
|---|---|
| **Physical State:** | Liquid |
| **Appearance/Color:** | Yellowish |
| **Odor:** | Amine like |
| **Solubility in water:** | Not or slightly miscible |
| **Flash Point:** | 77° C (170 ° F). |
| **Flammability:** | Product is not self-igniting |
| **Danger of explosion:** | Product is not explosive |
| **Boiling Point:** | Not determined |
| **Melting Point:** | Not determined |
| **Boiling Point:** | N/A |
| **Melting Point:** | N/A |
| **Bulk Density:** | 0.88 g/cm$^3$ at 20°C (68°F) |
| **Viscosity:** (dynamic) | Not determined |
| **pH:** | 14 at 20°C (68°F) |
| **Viscosity:** (dynamic) | 24 cps (mPas) at 20°C (68°F) |
| **VOC content:** | < 50 g/l (A+B Combined) |

## Section 10 – Stability and Reactivity

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

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

**Hazardous Decomposition:** Carbon monoxide, carbon dioxide, hydrocarbon fragments. Possibility of flammable mixtures in the air, if product heats above flash point and/or spraying or fogging.

**Incompatibilities:** Strong oxidizing agents.

## Section 11 – Toxicological Information

**Acute Toxicity:**

| 2855-13-2 | 3-aminomethyl-3,5,5-trimethylcyclohexylamine | |
|---|---|---|
| Oral | LD50 | 1030 mg/kg (rat) |
| Dermal | LD50 | 1840 mg/kg (rabbit) |

| 64742-48-9 | Naphtha (petroleum), hydrotreated heavy | |
|---|---|---|
| Oral | LD50 | >2000 mg/kg (rat) |
| Dermal | LD50 | >2000 mg/kg (rabbit) |
| Inhalation | LC50 | >5 mg/l (rat) |

**Primary Irritation:**

- **Skin:** corrosive on skin and mucous membrane.
- **Eyes:** strong corrosive reaction.
- **Sensibility:** sensibility through contact with skin possible.

**Additional Information:** if ingested, highly corrosive to mouth and throat, as well as danger or perforation to esophagus and stomach.

## Section 12 – Ecological Information

**Aquatic Toxicity:**

| 2855-13-2 | 3-aminomethyl-3,5,5-trimethylcyclohexylamine | |
|---|---|---|
| EC10 | 18 h/ | 1120 mg/l (Pseudomas putida) |

| | | | |
|---|---|---|---|
| EC50 | | >50 mg/l | (Algae toxicity) |
| EC50 | 48 h/ | 23 mg/l | (Daphnia magna) |
| LC50 | 96 h/ | 110 mg/l | (Brachydanio rerio) |

**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 resin and fully cured is ecologically save and can be disposed to local refuse deposit or recycling facility.

## Section 14 – Transport Information

**USDOT (Domestic Surface):** UN 2735 Amines, liquid, corrosive, NOS, (Isophoronediamine) 8, PG III

**IATA/ICAO (Air):** UN 2735 Amines, liquid, corrosive, NOS, (Isophoronediamine) 8, PG III.

**IMDG (Ocean):** UN 2735 Amines, liquid, corrosive, NOS, (Isophoronediamine), Marine pollutant, 8, 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: 3* Flammability: 0 Physical hazard: 1

**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. |
| EC50: | Median effective concentration. |
| RQ: | Reportable quantity. |

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**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** (January 22, 2019)

Date prepared: **AUGUST 2012**
Date revised: **JANUARY 2019**
SDS No. 5.1.4.C1

## Section 1 – Product Identification

**IDENTITY:** *As Used on Label and List:* **VAPORTIGHT COAT®-SG2/3-ACCELERATOR**
(SDS 1 of 1)
*Chemical Characterization:* EPOXY ACCELERATOR (CORROSIVE) **"COMPONENT-C"**
(Curing Agent for AQUAFIN-SG2 and SG3)

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

24 hr Emergency Phone: Chem-Tel **(800) 255-3924**
Information Phone No: **(410) 392-2300**
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

**OSHA/HCS status:** This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

### GHS Classification:

| | |
|---|---|
| Acute toxicity, Category 4 (oral) | H302: Harmful if swallowed. |
| Skin corrosion/irritation, Category 1B | H314: Causes severe skin burns and eye damage. |
| Skin sensitization, Category 1 | H317: May cause an allergic skin reaction. |
| Serious eye damage, Category 1 | H318: Causes serious eye damage. |
| Reproductive toxicity, Category 2 | H361: Suspected of damaging fertility or the unborn child. |

### GHS Label element:

**Hazard Pictograms**


GHS05


GHS07


GHS08

Signal Word: Danger

Hazard Statements:

| | |
|---|---|
| H302: | Harmful if swallowed. |
| H314: | Causes severe skin burns and eye damage. |
| H317: | May cause an allergic skin reaction. |
| H318: | Causes serious eye damage. |
| H361: | Suspected of damaging fertility or the unborn child. |

Precautionary Statements:

**Prevention:**

| | |
|---|---|
| P102: | Keep out of reach of children. |
| P260: | Do not breathe dust/fume/gas/mist/vapors/spray. |
| P264: | Wash skin thoroughly after handling. |
| P270: | Do not eat, drink or smoke when using this product. |
| P280: | Wear protective gloves/protective clothing/eye protection/face protection. |
| P272: | Contaminated work clothing should not be allowed out of the workplace. |
| P281: | Use protective equipment as required. |

**Response:**

| | |
|---|---|
| P301 + P315: | IF SWALLOWED: Get immediate medical advice/attention. |

| | | |
|---|---|---|
| P330 + P331: | Rinse mouth. Do NOT induce vomiting. | |
| P302 + P352 = P361: | IF ON SKIN: | Remove/Take off immediately all contaminated clothing. 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. | |
| P362: | Take off contaminated clothing and wash before reuse. | |

**Storage:**

| | |
|---|---|
| P403: | Store in a well-ventilated place. |
| P405: | Store locked up. |

**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

**Substance:** Mixture.

| HAZARDOUS COMPONENTS | CAS NUMBER | WEIGHT |
|---|---|---|
| 2,4,6-tris-(dimethylaminomethyl)phenol | 90-72-2 | 60 - 100% |
| bis[(dimethylamino)methyl]phenol | 71074-89-0 | 13 - 30 |

## Section 4 – First Aid Measures

**General Advise:** Immediately remove contaminated clothing. Exposure symptoms can appear after several hours. If contaminated consult medical advise up to 48 hours after exposure.
First Aid: Wear protective equipment (i.e. protective gloves).
If victim is unconscious: position and transport in “stable sideways position” to prevent asphyxiation if vomiting. Keep air passages open, remove dentures and vomit. Control breathing and pulse. If breathing and heart activity stops, administer CPR and call immediately emergency services.

**After Inhalation:** Remove subject to fresh air. Administer oxygen if difficulty with breathing. Consult a physician immediately. The exposed person may need to be kept under medical surveillance for 48 hours.

**After Ingestion:** Immediately seek medical attention. Do not induce vomiting. Drink plenty of water to dilute stomach contents. Stop if the exposed person feels sick as vomiting may be dangerous.

**After Skin Contact:** Instantly wash skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately. Chemical burns must be treated promptly by a physician.

**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. Chemical burns must be treated promptly by a physician. Consult physician immediately.

**Protection of First Aid Personnel:** If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

**Notes to Physician:** In case of inhalation of decomposition products in a fire, symptoms may be delayed. The

exposed person may need to be kept under medical surveillance for 48 hours.

## Section 5 – Fire Fighting Measures

**Flash Point:** Closed cup: 110 - 120° C (230 - 248 ° F). [DIN 51758; EN 22719 (Pensky-Martens Closed Cup)].

**Flammability:** In a fire or heated, a pressure increase will occur and the container may burst.

**Hazardous Thermal Decomposition Products:** Decomposition products may include the following materials: Carbon dioxide; carbon monoxide; nitrogen oxides.

**Extinguishing Media:**
**Suitable** Use an extinguishing agent suitable for the surrounding fire.
**Not suitable** None known.

**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 fog.
Formation of poisonous gases during heating or in fires possible.

## Section 6 – Accidental Release Measures

**Personal Precautions:** Provide plenty of fresh air. Avoid eye and skin contact. Avoid inhalation of vapors. Wear appropriate personal protective equipment. Remove or eliminate all ignition sources. Do not touch or walk through spilled material.

**Methods for Cleaning up:** Stop leak if without risk. Move containers from spill area. Approach release from upwind. 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. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

## Section 7 – Handling and Storage

**Handling:** Avoid eye and skin contact. Keep out of reach of children. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Storage:** Storage temperature: 2 - 40° C (35 - 104° F). Store in original container protected from direct sunlight in a dry, cool and well ventilated area in tightly closed containers. Store away from foodstuffs. Provide fresh air when handling in closed rooms (open windows and doors). Do not store in unlabeled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers.

## Section 8 – Exposure Controls / Personal Protection

**Engineering Controls:** Use only 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 impervious gloves (neoprene) to prevent hand-skin exposure. Wear appropriate impervious clothing (acid and alkaline resistant) to prevent skin exposure (long sleeve shirt and long pants).

**Hand Protection:** Chemical-resistant, impervious gloves complying with an approve standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Material of gloves for long term application (BTT>480 min):
- butyl rubber
- ethyl vinyl alcohol laminate (EVAL)
- gauntlet type.

Material of gloves for short term/splash application (10 min<BTT<480 min):
- nitrile rubber
- gauntlet type.

**Eye Protection:** Wear chemical splash goggles. Face shield as necessary.

**Work/Hygienic Practices:** Wash hands before breaks and after work, and before eating, drinking or smoking. Know the locations of eye wash fountains and emergency showers.

## Section 09 – Physical and Chemical Properties

**Physical State:** Liquid
**Appearance/Color:** Light yellow
**Odor:** Amine like
**Solubility in water:** Soluble
**Boiling Point:** N/A
**Melting Point:** N/A
**Flash Point:** Closed cup: 110 - 120° C (230 - 248 ° F). [DIN 51758; EN 22719 (Pensky-Martens Closed Cup)]
**Vapor Pressure:** Less than 1 Pa at 20°C (68°F)
**Bulk Density:** 0.97 kg/dm$^3$ at 20°C (68°F)
**Evaporation Rate:** N/A
**pH:** 11
**Viscosity:** (room temperature) 120 – 250 mPa*s (120 – 250 cPs)
**VOC:** 0% (0 g/L)

## Section 10 – Stability and Reactivity

**Chemical Stability:** The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.

**Conditions to Avoid:** Strong oxidizer. Keep away from heat and ignition sources.

**Materials to avoid:** Strong acids, strong bases, strong oxidizing agents.

**Hazardous Decomposition:** Under normal conditions of storage and use, hazardous decomposition products should not be produced. Decomposition products may include the following materials: nitrogen oxides, carbon monoxide, other organic compounds.

## Section 11 – Toxicological Information

**Acute Toxicity:**

2,4,6-tris((dimethylaminomethyl)phenol:

| | | |
|---|---|---|
| Oral | LD50 | 2169 mg/kg (rat-female) |
| Dermal | LD50 | >971 mg/kg (rat-male) |

**Irritation/Corrosion:**

2,4,6-tris((dimethylaminomethyl)phenol:

| | | |
|---|---|---|
| Dermal | Skin | Corrosive (rabbit) |
| | Eyes | Corrosive (rabbit) |

Bis[(dimethylamino)methyl]phenol:

| | | |
|---|---|---|
| Dermal | Skin | Irritant (rabbit) |
| | Eyes | Irritant (rabbit) |

**Potential Acute Health Effects:**

- **Inhalation:** May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system.
- **Ingestion:** Harmful if swallowed. May cause burns to mouth, throat and stomach.
- **Skin:** Causes severe burns..
- **Eyes:** Causes serious eye damage.

**Additional Information:** If ingested, highly corrosive to mouth and throat, as well as danger or perforation to esophagus and stomach.

## Section 12 – Ecological Information

**Environment:** Toxic to aquatic systems. Do not allow product to reach into natural waterways, drains, storm water or wastewater 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 resin and fully cured is ecologically save and can be disposed to local refuse deposit.

## Section 14 – Transport Information

**DOT (Domestic Surface & Air):** UN 2735 Polyamines, liquid, corrosive, N.O.S.
(2,4,6-Tris(Dimethylaminomethyl)Phenol) 8, PG II

**IMO (Ocean):** UN 2735 Polyamines, liquid, corrosive, N.O.S.
(2,4,6-Tris(Dimethylaminomethyl)Phenol) 8, PG II

**IATA/ICAO (Air):** UN 2735 Polyamines, liquid, corrosive, N.O.S.
(2,4,6-Tris(Dimethylaminomethyl)Phenol) 8, PG II

## Section 15 – Regulatory Information

**U.S. Federal Regulations**

**HCS Classification:** Corrosive material.

**U.S. Federal Regulations:** **U.S. Inventory (TSCA 8b):** All components are listed or exempted.

**SARA Notification:** **SARA 302/304/311/312:** Immediate (acute) health hazard.
Delayed (chronic) health hazard.

**SARA 311/312 SDS distribution – chemical inventory – hazard identification:**
No ingredient listed.

**Clean Air Act – Ozone Depleting Substances (ODS):** This product does not contain nor is it manufactured with ozone depleting substances.

**State Regulations:** **Massachusetts, New Jersey & Pennsylvania RTK Hazardous Substances:**
No ingredients listed.
**California Prop 65:** None required.

**Canada:**
**WHMIS (Canada):** Class D-2B: Material causing other toxic effects (Toxic).

**CEPA DSL:** This material is listed or exempted.

## Section 16 – Other Information

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

**HMIS III rating:**
Health: 3 Flammability: 1 Physical hazard: 0 Personal Protection: B

**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. |
| EC50: | Median effective concentration. |
| RQ: | Reportable quantity. |

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**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** (January 22, 2019)

Date prepared: **JANUARY 2006**
Date revised: **JANUARY 2019**
SDS No 5.1.2.A1

## Section 1 – Identification

**IDENTITY:** *Product Name:* **VAPORTIGHT COAT®-SG3** (SDS 1 of 2)
*Chemical Characterization:* EPOXY RESIN (IRRITANT) **"COMPONENT-A"**

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

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

Skin irritation, Category 2
Skin sensitization, Category 1
Eye irritation, Category 2A

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

### GHS Label element:

**Hazard Pictograms**

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.
P272: Contaminated work clothing should not be allowed out of the workplace.
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 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.
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

**Description:** Solvent-free preparation based on bisphenol-A-epichlorhydrin resin molecular weight ≤700.

| COMPONENTS | CAS NUMBER | OSHA PEL | ACGIH TLV | WEIGHT % |
|---|---|---|---|---|
| Bisphenol-A-epichlorhydrin | 25068-38-6 | Not Estab. | Not Estab. | 50-100% |
| 1,6-bis(2,3-ethoxypropoxy)hexane | 16096-31-4 | Not Estab. | Not Estab. | 10-25% |
| Diisopropylnaphthalene | 38640-62-9 | Not Estab. | Not Eastab. | 10-25% |
| aliphatic trimethyol-propantriglydylether | 30499-70-8 | Not Estab. | Not Eastab. | 10-25% |
| bisphenol-F-epoxy resin | 9003-36-5 | Not Estab. | Not Estab. | 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

**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. Drink plenty of water to dilute stomach contents.

**After Skin Contact:** Instantly wash skin with plenty of soap and water for at least 15 minutes. Wash clothing before reuse.

**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.

## Section 5 – Fire Fighting Measures

**Extinguishing Media:** Carbon dioxide ($CO_2$), extinguishing powder, water fog.
Do not use full water jet.

**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 fog. 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. Emergency procedures are not required.

**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, or storm water or sewage systems.

## Section 7 – Handling and Storage

**Handling:** 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. Provide fresh air when handling in closed rooms (open windows and doors).

## 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 or slightly miscible |
| **Boiling Point:** | Not determined |
| **Melting Point:** | Not determined |
| **Flash Point:** | >100° C (>212 ° F) |
| **Flammability:** | Does not self-ignite |
| **Explosion:** | Does not explode |
| **Bulk Density:** | 1.12 kg/dm$^3$ at 20°C (68°F) |
| **Viscosity:** (dynamic) | 495 cps (mPas) at 20°C (68°F) |
| **VOC Concentration:** | 0 g/l |

## 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.

## 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-ethoypropoxy)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 | >5000 mg/kg (rat) |

**Primary Irritation:**

- **Skin:** irritates skin and mucous membrane.
- **Eyes:** irritating
- **Sensibility:** sensibility through contact with skin possible.

## Section 12 – Ecological Information

**Aquatic toxicity:**

| | |
|---|---|
| 25068-38-6 | bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700) |
| EC50 | (24 h) 3.6 mg/l (Daphnia magna) |
| LC50 | (96 h) 1.5 mg/l (Rainbow trout) |
| | |
| 9003-36-5 | bisphenol F-epoxy resin |
| EC50 | 2 mg/l (Daphnia (acute) toxicity)) |
| LC50 | (96 h) 2 mg/l (Fish toxicity) |

**Persistence and degradability:**

| | |
|---|---|
| 25068-38-6 | bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700) |
| 301B | (Mod. Sturm) 12% (-) |

**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.

## 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-Hexandioldiglycidylether. 9, PG III.

**IMDG (Ocean):** UN 3082 Environmentally hazardous substance, liquid, NOS (bisphenol A-(epichlorhydrin), epoxy resin (number average molecular weight<700), 1,6-Hexandioldiglycidylether. 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

**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. |
| EC50: | Median effective concentration. |
| RQ: | Reportable quantity. |

**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** (January 22, 2019)

Date prepared: **JANUARY 2006**
Date revised: **JANUARY 2019**
SDS No 5.1.2.B1

## Section 1 – Identification

**IDENTITY:** *Product Name:* **VAPORTIGHT COAT®-SG3** (SDS 2 of 2)
*Chemical Characterization:* EPOXY HARDENER (CORROSIVE) **"COMPONENT-B"**

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

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

| | |
|---|---|
| Acute toxicity, Category 4 (oral) | H302: Harmful if swallowed. |
| Skin corrosion/irritation, Category 1B | H314: Causes severe skin burns and eye damage. |
| Skin sensitization, Category 1 | H317: May cause an allergic skin reaction. |
| Serious eye damage, Category 1 | H318: Causes serious eye damage. |
| Reproductive toxicity, Category 2 | H361: Suspected of damaging fertility or the unborn child. |

### GHS Label element:

### Hazard Pictograms

GHS05 GHS07 GHS08

Signal Word: Danger

Hazard Statements:

| | |
|---|---|
| H302: | Harmful if swallowed. |
| H314: | Causes severe skin burns and eye damage. |
| H317: | May cause an allergic skin reaction. |
| H318: | Causes serious eye damage. |
| H361: | Suspected of damaging fertility or the unborn child. |

Precautionary Statements:

**Prevention:**

| | |
|---|---|
| P102: | Keep out of reach of children. |
| P260: | Do not breathe dust/fume/gas/mist/vapors/spray. |
| P264: | Wash skin thoroughly after handling. |
| P270: | Do not eat, drink or smoke when using this product. |
| P280: | Wear protective gloves/protective clothing/eye protection/face protection. |
| P272: | Contaminated work clothing should not be allowed out of the workplace. |
| P281: | Use protective equipment as required. |

**Response:**

| | | |
|---|---|---|
| P301 + P315: | IF SWALLOWED: | Get immediate medical advice/attention. |
| P330 + P331: | Rinse mouth. Do NOT induce vomiting. | |
| P302 + P352 = P361: | IF ON SKIN: | Remove/Take off immediately all contaminated clothing. 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. | |
| P362: | Take off contaminated clothing and wash before reuse. | |

**Storage:**

| | |
|---|---|
| P403: | Store in a well-ventilated place. |
| P405: | Store locked up. |

**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 Hazardous Ingredients

| COMPONENTS | CAS NUMBER | WEIGHT |
|---|---|---|
| 4-Tert-Butylphenol | 98-54-4 | 2.5-10% |
| m-phenylenebis(methylamine) | 1477-55-0 | 2.5-10% |
| 2,4,6-Tris-(dimethylaminomethyl)phenol | 90-72-2 | 2.5-10% |
| Trimethylhexane-1,6-diamine | 25620-58-0 | 2.5-10% |
| N'-(3-Aminopropyl)-N,N-dimethylpropane-1,3-diamine | 10563-29-8 | 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 Advise:** Immediately remove contaminated clothing. Exposure symptoms can appear after several hours. If contaminated consult medical advise up to 48 hours after exposure.
First Aid: Wear protective equipment (i.e. protective gloves).
If victim is unconscious: position and transport in "stable sideways position" to prevent asphyxiation if vomiting. Keep air passages open, remove dentures and vomit. Control breathing and pulse. If breathing and heart activity stops, administer CPR and call immediately emergency services.

**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. Drink plenty of water to dilute stomach contents.

**After Skin Contact:** Instantly wash skin with plenty of soap and water for at least 15 minutes. Wash clothing before reuse.

**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.

## Section 5 – Fire Fighting Measures

**Extinguishing Media:** Carbon dioxide ($CO_2$), extinguishing powder, water spray.
Do not use full water jet.

**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 fog.
Formation of poisonous gases during heating or in fires possible.

## 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:** 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. Provide fresh air when handling in closed rooms (open windows and doors).

**Materials to avoid:** No data available.

## 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.

| | CAS NUMBER | OSHA PEL | ACGIH TLV | WEIGHT |
|---|---|---|---|---|
| **m-phenylenebis(methylamine):** | 1477-55-0 | 0.1 mg/m$^3$ | 0.1 mg/m$^3$ | 2.5-10% |

**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 impervious gloves (neoprene) to prevent hand-skin exposure. Wear appropriate impervious clothing (acid and alkaline resistant) to prevent skin exposure (long sleeve shirt and long pants).

**Eye Protection:** Wear chemical splash goggles. Face shield as necessary.

**Work/Hygienic Practices:** Wash hands before breaks and after work, and before eating, drinking or smoking. Know the locations of eye wash fountains and emergency showers.

## Section 9 – Physical and Chemical Properties

**Physical State:** Liquid
**Appearance/Color:** Yellowish
**Odor:** Amine like

| | |
|---|---|
| **Solubility in water:** | Not miscible or difficult to mix |
| **Flash Point:** | >120° C (>248 ° F) |
| **Flammability:** | Product is not self-igniting |
| **Danger of explosion:** | Product is not explosive |
| **Boiling Point:** | Not determined |
| **Melting Point:** | Not determined |
| **Bulk Density:** | 0.99 g/cm$^3$ at 20°C (68°F) |
| **Viscosity:** (dynamic) | 1400 cps (mPas) at 20°C (68°F) |
| **VOC Concentration:** | 0 g/l |

## Section 10 – Stability and Reactivity

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

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

**Hazardous Decomposition:** No dangerous decomposition or emission products known if product handled as per specifications.

**Incompatibilities:** No dangerous reactions known.

## Section 11 – Toxicological Information

**Acute Toxicity:**

| 98-54-4 | 4-tert-Butylphenole | |
|---|---|---|
| Oral | LD50 | 2951 mg/kg (rat) |
| Dermal | LD50 | 2288 mg/kg (rabbit) |

**Primary Irritation:**

- **Skin:** Corrosive on skin and mucous membrane. Irritates skin and mucous membrane.
- **Eyes:** Strong corrosive reaction.
- **Sensibility:** Sensibility through contact with skin possible.

**Additional Information:** If ingested, highly corrosive to mouth and throat, as well as danger or perforation to esophagus and stomach.

## Section 12 – Ecological Information

**Environment:** Toxic to aquatic systems. Do not allow product to reach into natural waterways, drains, storm water or wastewater systems.

**General notes:** Water hazard class 2 (Self-assessment): hazardous for water.

## 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 resin and fully cured is ecologically safe and can be disposed to local refuse deposit.

## Section 14 – Transport Information

**USDOT (Domestic Surface):** UN 2735 Amines, liquid, corrosive, NOS,
(trimethylhexanediamines, (m-phenylenebis (methylamine)) 8, PG III

**IMDG (Ocean):** UN 2735 Amines, liquid, corrosive, NOS, (N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine, m-phenylenebis (methylamine)) 8, PG III

**IATA/ICAO (Air):** UN 2735 Amines, liquid, corrosive, NOS, (trimethylhexanediamines, (m-phenylenebis (methylamine)) 8, 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: 3* Flammability: 0 Physical hazard: 1

**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. |
| EC50: | Median effective concentration. |
| RQ: | Reportable quantity. |

**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** (January 22, 2019)

Date prepared: **AUGUST 2012**
Date revised: **JANUARY 2019**
SDS No. 5.1.4.C1

## Section 1 – Product Identification

**IDENTITY:** *As Used on Label and List:* **VAPORTIGHT COAT®-SG2/3-ACCELERATOR**
(SDS 1 of 1)
*Chemical Characterization:* EPOXY ACCELERATOR (CORROSIVE) **"COMPONENT-C"**
(Curing Agent for AQUAFIN-SG2 and SG3)

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

24 hr Emergency Phone: Chem-Tel **(800) 255-3924**
Information Phone No: **(410) 392-2300**
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

**OSHA/HCS status:** This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

### GHS Classification:

| | |
|---|---|
| Acute toxicity, Category 4 (oral) | H302: Harmful if swallowed. |
| Skin corrosion/irritation, Category 1B | H314: Causes severe skin burns and eye damage. |
| Skin sensitization, Category 1 | H317: May cause an allergic skin reaction. |
| Serious eye damage, Category 1 | H318: Causes serious eye damage. |
| Reproductive toxicity, Category 2 | H361: Suspected of damaging fertility or the unborn child. |

### GHS Label element:

**Hazard Pictograms**


GHS05


GHS07


GHS08

Signal Word: Danger

Hazard Statements:

| | |
|---|---|
| H302: | Harmful if swallowed. |
| H314: | Causes severe skin burns and eye damage. |
| H317: | May cause an allergic skin reaction. |
| H318: | Causes serious eye damage. |
| H361: | Suspected of damaging fertility or the unborn child. |

Precautionary Statements:

**Prevention:**

| | |
|---|---|
| P102: | Keep out of reach of children. |
| P260: | Do not breathe dust/fume/gas/mist/vapors/spray. |
| P264: | Wash skin thoroughly after handling. |
| P270: | Do not eat, drink or smoke when using this product. |
| P280: | Wear protective gloves/protective clothing/eye protection/face protection. |
| P272: | Contaminated work clothing should not be allowed out of the workplace. |
| P281: | Use protective equipment as required. |

**Response:**

| | |
|---|---|
| P301 + P315: | IF SWALLOWED: Get immediate medical advice/attention. |

| | | |
|---|---|---|
| P330 + P331: | Rinse mouth. Do NOT induce vomiting. | |
| P302 + P352 = P361: | IF ON SKIN: | Remove/Take off immediately all contaminated clothing. 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. | |
| P362: | Take off contaminated clothing and wash before reuse. | |

**Storage:**

| | |
|---|---|
| P403: | Store in a well-ventilated place. |
| P405: | Store locked up. |

**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

**Substance:** Mixture.

| HAZARDOUS COMPONENTS | CAS NUMBER | WEIGHT |
|---|---|---|
| 2,4,6-tris-(dimethylaminomethyl)phenol | 90-72-2 | 60 - 100% |
| bis[(dimethylamino)methyl]phenol | 71074-89-0 | 13 - 30 |

## Section 4 – First Aid Measures

**General Advise:** Immediately remove contaminated clothing. Exposure symptoms can appear after several hours. If contaminated consult medical advise up to 48 hours after exposure.
First Aid: Wear protective equipment (i.e. protective gloves).
If victim is unconscious: position and transport in “stable sideways position” to prevent asphyxiation if vomiting. Keep air passages open, remove dentures and vomit. Control breathing and pulse. If breathing and heart activity stops, administer CPR and call immediately emergency services.

**After Inhalation:** Remove subject to fresh air. Administer oxygen if difficulty with breathing. Consult a physician immediately. The exposed person may need to be kept under medical surveillance for 48 hours.

**After Ingestion:** Immediately seek medical attention. Do not induce vomiting. Drink plenty of water to dilute stomach contents. Stop if the exposed person feels sick as vomiting may be dangerous.

**After Skin Contact:** Instantly wash skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately. Chemical burns must be treated promptly by a physician.

**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. Chemical burns must be treated promptly by a physician. Consult physician immediately.

**Protection of First Aid Personnel:** If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

**Notes to Physician:** In case of inhalation of decomposition products in a fire, symptoms may be delayed. The

exposed person may need to be kept under medical surveillance for 48 hours.

## Section 5 – Fire Fighting Measures

**Flash Point:** Closed cup: 110 - 120° C (230 - 248 ° F). [DIN 51758; EN 22719 (Pensky-Martens Closed Cup)].

**Flammability:** In a fire or heated, a pressure increase will occur and the container may burst.

**Hazardous Thermal Decomposition Products:** Decomposition products may include the following materials: Carbon dioxide; carbon monoxide; nitrogen oxides.

**Extinguishing Media:**
**Suitable** Use an extinguishing agent suitable for the surrounding fire.
**Not suitable** None known.

**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 fog.
Formation of poisonous gases during heating or in fires possible.

## Section 6 – Accidental Release Measures

**Personal Precautions:** Provide plenty of fresh air. Avoid eye and skin contact. Avoid inhalation of vapors. Wear appropriate personal protective equipment. Remove or eliminate all ignition sources. Do not touch or walk through spilled material.

**Methods for Cleaning up:** Stop leak if without risk. Move containers from spill area. Approach release from upwind. 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. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

## Section 7 – Handling and Storage

**Handling:** Avoid eye and skin contact. Keep out of reach of children. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Storage:** Storage temperature: 2 - 40° C (35 - 104° F). Store in original container protected from direct sunlight in a dry, cool and well ventilated area in tightly closed containers. Store away from foodstuffs. Provide fresh air when handling in closed rooms (open windows and doors). Do not store in unlabeled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers.

## Section 8 – Exposure Controls / Personal Protection

**Engineering Controls:** Use only 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 impervious gloves (neoprene) to prevent hand-skin exposure. Wear appropriate impervious clothing (acid and alkaline resistant) to prevent skin exposure (long sleeve shirt and long pants).

**Hand Protection:** Chemical-resistant, impervious gloves complying with an approve standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Material of gloves for long term application (BTT>480 min):
- butyl rubber
- ethyl vinyl alcohol laminate (EVAL)
- gauntlet type.

Material of gloves for short term/splash application (10 min<BTT<480 min):
- nitrile rubber
- gauntlet type.

**Eye Protection:** Wear chemical splash goggles. Face shield as necessary.

**Work/Hygienic Practices:** Wash hands before breaks and after work, and before eating, drinking or smoking. Know the locations of eye wash fountains and emergency showers.

## Section 09 – Physical and Chemical Properties

**Physical State:** Liquid
**Appearance/Color:** Light yellow
**Odor:** Amine like
**Solubility in water:** Soluble
**Boiling Point:** N/A
**Melting Point:** N/A
**Flash Point:** Closed cup: 110 - 120° C (230 - 248 ° F). [DIN 51758; EN 22719 (Pensky-Martens Closed Cup)]
**Vapor Pressure:** Less than 1 Pa at 20°C (68°F)
**Bulk Density:** 0.97 kg/dm$^3$ at 20°C (68°F)
**Evaporation Rate:** N/A
**pH:** 11
**Viscosity:** (room temperature) 120 – 250 mPa*s (120 – 250 cPs)
**VOC:** 0% (0 g/L)

## Section 10 – Stability and Reactivity

**Chemical Stability:** The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.

**Conditions to Avoid:** Strong oxidizer. Keep away from heat and ignition sources.

**Materials to avoid:** Strong acids, strong bases, strong oxidizing agents.

**Hazardous Decomposition:** Under normal conditions of storage and use, hazardous decomposition products should not be produced. Decomposition products may include the following materials: nitrogen oxides, carbon monoxide, other organic compounds.

## Section 11 – Toxicological Information

**Acute Toxicity:**

2,4,6-tris((dimethylaminomethyl)phenol:

| | | |
|---|---|---|
| Oral | LD50 | 2169 mg/kg (rat-female) |
| Dermal | LD50 | >971 mg/kg (rat-male) |

**Irritation/Corrosion:**

2,4,6-tris((dimethylaminomethyl)phenol:

| | | |
|---|---|---|
| Dermal | Skin | Corrosive (rabbit) |
| | Eyes | Corrosive (rabbit) |

Bis[(dimethylamino)methyl]phenol:

| | | |
|---|---|---|
| Dermal | Skin | Irritant (rabbit) |
| | Eyes | Irritant (rabbit) |

**Potential Acute Health Effects:**

- **Inhalation:** May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system.
- **Ingestion:** Harmful if swallowed. May cause burns to mouth, throat and stomach.
- **Skin:** Causes severe burns..
- **Eyes:** Causes serious eye damage.

**Additional Information:** If ingested, highly corrosive to mouth and throat, as well as danger or perforation to esophagus and stomach.

## Section 12 – Ecological Information

**Environment:** Toxic to aquatic systems. Do not allow product to reach into natural waterways, drains, storm water or wastewater 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 resin and fully cured is ecologically save and can be disposed to local refuse deposit.

## Section 14 – Transport Information

**DOT (Domestic Surface & Air):** UN 2735 Polyamines, liquid, corrosive, N.O.S.
(2,4,6-Tris(Dimethylaminomethyl)Phenol) 8, PG II

**IMO (Ocean):** UN 2735 Polyamines, liquid, corrosive, N.O.S.
(2,4,6-Tris(Dimethylaminomethyl)Phenol) 8, PG II

**IATA/ICAO (Air):** UN 2735 Polyamines, liquid, corrosive, N.O.S.
(2,4,6-Tris(Dimethylaminomethyl)Phenol) 8, PG II

## Section 15 – Regulatory Information

**U.S. Federal Regulations**

**HCS Classification:** Corrosive material.

**U.S. Federal Regulations:** **U.S. Inventory (TSCA 8b):** All components are listed or exempted.

**SARA Notification:** **SARA 302/304/311/312:** Immediate (acute) health hazard.
Delayed (chronic) health hazard.

**SARA 311/312 SDS distribution – chemical inventory – hazard identification:**
No ingredient listed.

**Clean Air Act – Ozone Depleting Substances (ODS):** This product does not contain nor is it manufactured with ozone depleting substances.

**State Regulations:** **Massachusetts, New Jersey & Pennsylvania RTK Hazardous Substances:**
No ingredients listed.
**California Prop 65:** None required.

**Canada:**
**WHMIS (Canada):** Class D-2B: Material causing other toxic effects (Toxic).

**CEPA DSL:** This material is listed or exempted.

## Section 16 – Other Information

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

**HMIS III rating:**
Health: 3 Flammability: 1 Physical hazard: 0 Personal Protection: B

**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. |
| EC50: | Median effective concentration. |
| RQ: | Reportable quantity. |

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**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** (January 22, 2019)

Date prepared: JANUARY 2016
Date revised: FEBRUARY 2019
SDS No 5.4.1.A1

## Section 1 – Identification

**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

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

| | |
|---|---|
| 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 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. |
| 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.

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

## 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 ($CO_2$), 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 |
| **Explosion:** | Does not explode |
| **Bulk Density:** | 1.14 kg/dm$^3$ (9.5 lbs/gal) at 20°C (68°F) |
| **Viscosity:** (dynamic) | 730 cps (mPas) at 20°C (68°F) |
| **VOC Concentration:** | 0 g/l |

## 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.

## 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.

## 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-Hexandioldiglycidylether. 9, PG III.

**IMDG (Ocean):** UN 3082 Environmentally hazardous substance, liquid, NOS
(bisphenol A-(epichlorhydrin), epoxy resin (number average molecular weight<700), 1,6-Hexandioldiglycidylether. 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.
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. |
| EC50: | Median effective concentration. |
| RQ: | Reportable quantity. |

**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** (February 28, 2019)

Date prepared: JANUARY 2016
Date revised: FEBRUARY 2019
SDS No 5.4.1.B1

## Section 1 – Identification

**IDENTITY:** *Product Name:* **VAPORTIGHT COAT®-SG4** (SDS 2 of 2)
*Chemical Characterization:* EPOXY HARDENER (CORROSIVE) **"COMPONENT-B"**

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

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

| | |
|---|---|
| Acute toxicity, Category 4 (oral) | H302: Harmful if swallowed. |
| Skin corrosion/irritation, Category 1B | H314: Causes severe skin burns and eye damage. |
| Skin sensitization, Category 1 | H317: May cause an allergic skin reaction. |
| Serious eye damage, Category 1 | H318: Causes serious eye damage. |
| Reproductive toxicity, Category 2 | H361: Suspected of damaging fertility or the unborn child. |

**Hazard-determining components of labeling:**
m-phenylenebis(methylamine)
4-tert-butylphenol
trimethylhexane-1,6-diamine
2,4,6-tris(dimethylaminomethyl)phenol

### GHS Label element:

**Hazard Pictograms**

GHS05 GHS07 GHS08

Signal Word: Danger

Hazard Statements:

| | |
|---|---|
| H302: | Harmful if swallowed. |
| H314: | Causes severe skin burns and eye damage. |
| H317: | May cause an allergic skin reaction. |
| H318: | Causes serious eye damage. |
| H361: | Suspected of damaging fertility or the unborn child. |

Precautionary Statements:
**Prevention:**

| | |
|---|---|
| P102: | Keep out of reach of children. |
| P260: | Do not breathe dust/fume/gas/mist/vapors/spray. |
| P264: | Wash skin thoroughly after handling. |
| P270: | Do not eat, drink or smoke when using this product. |
| P280: | Wear protective gloves/protective clothing/eye protection/face protection. |
| P272: | Contaminated work clothing should not be allowed out of the workplace. |
| P281: | Use protective equipment as required. |

**Response:**

| | | |
|---|---|---|
| P301 + P315: | IF SWALLOWED: | Get immediate medical advice/attention. |
| P330 + P331: | | Rinse mouth. Do NOT induce vomiting. |
| P302 + P352 = P361: | IF ON SKIN: | Remove/Take off immediately all contaminated clothing. 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. |
| P362: | | Take off contaminated clothing and wash before reuse. |

**Storage:**

| | |
|---|---|
| P403: | Store in a well-ventilated place. |
| P405: | Store locked up. |

**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 Hazardous Ingredients

Modified polyamidoamine.

| COMPONENTS | CAS NUMBER | WEIGHT |
|---|---|---|
| 4-Tert-Butylphenol<br>Repr. 2, H361; Eye Dam. 1, H318; Skin Irrit. 2, H315 | 98-54-4 | 25-50% |
| m-phenylenebis(methylamine) Skin Corr. 1B, H314;<br>Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1, H317 | 1477-55-0 | 25-50% |
| trimethylhexane-1,6-diamine Acute Tox. 3, H301;<br>Skin Corr. 1B, H314; Eye Dam. 1, H318; Skin Sens. 1, H317 | 25620-58-0 | 2.5-10% |
| N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine<br>Acute Tox. 3, H311 | 10563-29-8 | < 2.5% |
| 2,4,6-tris(dimethylaminomethyl)phenol<br>Skin Corr. 1B, H314 | 90-72-2 | T.S. |

## Section 4 – First Aid Measures

**General Advise:** Immediately remove contaminated clothing. Exposure symptoms can appear after several hours. If contaminated consult medical advise up to 48 hours after exposure.
First Aid: Wear protective equipment (i.e. protective gloves).
If victim is unconscious: position and transport in "stable sideways position" to prevent asphyxiation if vomiting. Keep air passages open, remove dentures and vomit. Control breathing and pulse. If breathing and heart activity stops, administer CPR and call immediately emergency services.

**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. Drink plenty of water to dilute stomach contents. Do not give household remedies (i.e. milk, alcohol, etc.).

**After Skin Contact:** Instantly wash skin with plenty of soap and water for at least 15 minutes. Remove affected clothing immediately and clean before reuse.

**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.

## Section 5 – Fire Fighting Measures

**Extinguishing Media:** Carbon dioxide ($CO_2$), 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 possible.

## 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:** 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. Provide fresh air when handling in closed rooms (open windows and doors).

**Materials to avoid:** No data available.

## 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.

| | CAS NUMBER | OSHA PEL | ACGIH TLV |
|---|---|---|---|
| **m-phenylenebis(methylamine):** | 1477-55-0 | 0.1 mg/m$^3$ | 0.1 mg/m$^3$ |

**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 impervious gloves (neoprene) to prevent hand-skin exposure. Wear appropriate impervious clothing (acid and alkaline resistant) to prevent skin exposure (long sleeve shirt and long pants).

**Eye Protection:** Wear chemical splash goggles. Face shield as necessary.

**Work/Hygienic Practices:** Wash hands before breaks and after work, and before eating, drinking or smoking. Know the locations of eye wash fountains and emergency showers.

## Section 9 – Physical and Chemical Properties

**Physical State:** Liquid
**Appearance/Color:** Yellowish
**Odor:** Amine like
**Solubility in water:** Not miscible or difficult to mix
**Flash Point:** Not applicable
**Flammability:** Product is not self-igniting
**Danger of explosion:** Product is not explosive
**Boiling Point:** Not determined
**Melting Point:** Not determined
**Bulk Density:** 1.0 g/cm$^3$ (8.3 lbs./gal.) at 20°C (68°F)
**Viscosity:** (dynamic) 360 mPas (cps) at 20°C (68°F)
**VOC Concentration:** 0 g/l

## Section 10 – Stability and Reactivity

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

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

**Hazardous Decomposition:** No dangerous decomposition or emission products known if product handled as per specifications.

**Incompatibilities:** No dangerous reactions known.

## Section 11 – Toxicological Information

**Acute Toxicity:**

| 98-54-4 | 4-tert-Butylphenole | |
|---|---|---|
| Oral | LD50 | 2951 mg/kg (rat) |
| Dermal | LD50 | 2288 mg/kg (rabbit) |

| 1477-55-0 | m-phenylenebis(methylamine) | |
|---|---|---|
| Oral | LD50 | 930 mg/kg (rat) |
| Dermal | LD50 | >3100 mg/kg (rabbit) |
| Inhalative | LC50 | 11 mg/l (-) |

**Primary Irritation:**
- **Skin:** Corrosive on skin and mucous membrane. Irritates skin and mucous membrane.
- **Eyes:** Strong caustic effect.
- **Sensibility:** Sensitization through contact with skin possible.

**Additional Information:** If ingested, highly corrosive to mouth and throat, as well as danger or perforation to esophagus and stomach.

## Section 12 – Ecological Information

**Environment:** Toxic to aquatic systems. Do not allow product to reach into natural waterways, drains, storm water or wastewater systems.

**General notes:** Water hazard class 2 (Self-assessment): hazardous for water.

## 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 resin 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 2735 Amines, liquid, corrosive, NOS, (trimethylhexanediamines, (m-phenylenebis (methylamine)) 8, PG III

**IMDG (Ocean):** UN 2735 Amines, liquid, corrosive, NOS, (trimethylhexanediamines, (m-phenylenebis (methylamine)) 8, PG III
Marine pollutant: No.

**IATA/ICAO (Air):** UN 2735 Amines, liquid, corrosive, NOS, (trimethylhexanediamines, (m-phenylenebis (methylamine)) 8, PG III

## Section 15 – Regulatory Information

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

## Section 16 – Other Information

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

**HMIS III rating:**
Health: 3* Flammability: 0 Physical hazard: 1 Personal Protection: B

**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. |
| EC50: | Median effective concentration. |
| RQ: | Reportable quantity. |

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

**DISCLAIMER:**

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**END OF SDS** (February 28, 2019)