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SDS No 5.4.1.A1

## Section 1 – Identification

**IDENTITY:** *Product Name:* **VAPORTIGHT COAT<sup>®</sup>-SG4** (SDS 1 of 2)  
*Chemical Characterization:* EPOXY RESIN (IRRITANT) **"COMPONENT-A"**

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

## Section 2 – Hazards Identification

### GHS Classification:

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  $\leq 700$ )  
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<sub>2</sub>), 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



<b>Boiling Point:</b>	Not determined
<b>Melting Point:</b>	Not determined
<b>Flash Point:</b>	Not applicable
<b>Flammability:</b>	Does not self-ignite
<b>Explosion:</b>	Does not explode
<b>Bulk Density:</b>	1.14 kg/dm <sup>3</sup> (9.5 lbs/gal) at 20°C (68°F)
<b>Viscosity: (dynamic)</b>	730 cps (mPas) at 20°C (68°F)
<b>VOC Concentration:</b>	0 g/l

## Section 10 – Stability and Reactivity

<b>Chemical Stability:</b>	Stable under normal conditions.
<b>Conditions to Avoid:</b>	Keep away from heat, ignition sources and incompatible materials.
<b>Hazardous Decomposition:</b>	Dangerous emissions of various decomposition products can be formed when exposed to heat.
<b>Incompatibilities:</b>	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:**

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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)