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Prepared according to 29 CFR 1910.1200

MSDS No 5.1.3.A1

Section 01 – Product Identification

IDENTITY: As Used on Label and List: **VAPORTIGHT COAT®-SG3/FC** (MSDS 1 of 2)
Chemical Characterization: EPOXY RESIN (IRRITANT) **“COMPONENT-A”**

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24 hr Emergency Phone: Chem-Tel (800) 255-3924
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Section 02 – Composition / Information on Hazardous Ingredients

HAZARDOUS COMPONENTS	CAS NUMBER	OSHA PEL	ACGIH TLV	WEIGHT %
Bisphenol A Epichlorhydrin	25068-38-6	Not Estab.	Not Estab.	50-100%
1,6-Hexandioldiglycidylether	16096-31-4	Not Estab.	Not Estab.	10-25%
Bisphenol F-Epichlorhydrin	9003-36-5	Not Estab.	Not Estab.	2.5-10%

Note to Section 02: contains epoxy compounds, considered hazardous under 29 CFR 1910.1200.

Section 03 – Hazards Identification

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

HMIS® - Rating	
HEALTH	2
FLAMMABILITY	1
PHYSICAL HAZARD	1
PERSONAL PROTECTION	G

Hazard Designation



Xi Irritant



N Environmental hazard

Potential Health Effects of Overexposure

This product is a colorless, weak odor liquid epoxy resin, used as half of a two part system. This product is irritating to the eyes and skin. It may cause sensitization by skin contact. Excessive inhalation causes headache, dizziness, nausea.

Routes of Entry:

- Inhalation:** Harmful by inhalation. Irritating to the respiratory system.
- Ingestion:** May cause nausea, vomiting and diarrhea. Do not induce vomiting. Consult a physician.
- Skin Contact:** Irritating on the skin. May cause an allergic skin reaction in some individuals.
- Eye Contact:** Can cause eye irritation and moderate eye injury.
- Chronic Exposure:** Repeated overexposure can cause severe skin irritation, dermatitis and sensitization. Sensitized persons may experience rapid irritation of skin upon exposure.

Section 04 – 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 05 – Fire Fighting Measures

Flash Point: >100° C (>212° F)

Extinguishing Media: Carbon dioxide (CO₂), 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 06 – 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 07 – 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 08 – 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 09 – Physical and Chemical Properties

Physical State: Liquid
Appearance/Color: Clear
Odor: Weak, characteristic
Solubility in water: Not or slightly miscible
Boiling Point: N/A
Melting Point: N/A
Bulk Density: 1.12 kg/dm³ 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 resin with average molecular weight = 700

Oral	LD50	>5000 mg/kg (rat)
Dermal	LD/LC50	>2000 mg/kg (rabbit)
	LD50	>2000 mg/kg (rat)
Inhalation	LC50	>100 mg/l (-)

16096-31-4 1,6-Hexandioldiglycidylether

Oral	LD50	8,500 mg/kg (rat)
Dermal	LD50	<4.900 mg/kg mg/kg (rabbit)

9003-36-5 Bisphenol F-Epichlorhydrin

Oral	LD50	>5000 mg/kg (rat)
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Primary Irritation:

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

Section 12 – Ecological Information

Elimination (Persistence and Diminishing):

25068-38-6 Bisphenol-A Epichlorhydrin resin with average molecular weight = 700
 301B (Mod. Sturm) 12 % (-)

Ecological reactions:

16096-31-4 1,6-Hexandioldiglycidylether
 EC50 24 h / 47 mg/l (Daphnia toxicity) (acute))

Aquatic Toxicity:

25068-38-6 Bisphenol-A Epichlorhydrin resin with average molecular weight = 700

EC50 (24 h) 3.6 mg/l (Daphnia magna)
 LC50 (96 h) 1.5 mg/l (Rainbow trout)

16096-31-4 1,6-Hexandioldiglycidylether

LC50 96 h/ 30 mg/l (Fish toxicity)
 96 h/ 17.1 – 30.9 mg/l (Zebra fish)

9003-36-5 Bisphenol F-Epichlorhydrin

EC50 2 mg/l (Daphnia toxicity) (acute)
 LC50 (96 h) 2 mg/l (Fish toxicity)

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

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.

Section 14 – Transport Information

DOT (Domestic Surface & Air): Not regulated per 49CFR 171.4(c) (Marine pollutant)

IMO (Ocean): UN 3082 Environmentally hazardous substance, liquid, NOS (Bisphenol A-epichlorhydrin, Bisphenol F-epichlorhydrin), 9, PG III



IATA (Air): UN 3082 Environmentally hazardous substance, liquid, NOS (Bisphenol A-epichlorhydrin, Bisphenol F-epichlorhydrin), 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.

Section 16 – Other Information

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

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, expense, direct or consequential, arising from their use.

END OF MSDS

(July 15, 2011)