



MATERIAL SAFETY DATA

Chemtrec 24-Hour Emergency Telephone

Domestic North America (800) 424-9300

International (800) 527-3887

This MSDS complies with 29 CFR 1910.1200 (Hazard Communications)

1. Product and Supplier Identification

Product Name: Vinylester Fairing Putty
Product Number: 0611301F, 0611301FF, 0611301G, 0611301Q
Date of Prep: 11/16/2010
Product Type: Unsaturated Vinylester Resin
Supplier: Fiberlay Inc.
24 S. Idaho S.
Seattle, Wa 98134
(206)782-0660

2. Composition/Information On Ingredients

CAS No.	Chemical Name	% (by weight)		PPM	MG/M3	PPM
100-42-5	Styrene	15-20	TWA	50	215	5000
			PEL	100	425	
			STEL	100	425	

HEALTH: 2 FLAMMABILITY: 3 REACTIVITY: 2

SARA SECTION 313 CHEMICAL

3. Hazards Identification

Emergency Overview: MAJOR EXPOSURE HAZARD: Inhalation, skin contact, eye contact

Effects Of Over-exposure:

- **Eye:**
 - ✓ Severe irritation
 - ✓ Redness
 - ✓ Tearing
 - ✓ Blurred vision

- **Skin:** Prolonged or repeated exposure can cause:
 - ✓ moderate irritation
 - ✓ de-fatting
 - ✓ dermatitis
 - ✓ sensitization.
- **Ingestion:** Can cause:
 - ✓ gastrointestinal irritation
 - ✓ nausea
 - ✓ vomiting and diarrhea
 - ✓ Aspiration of material into lungs can cause chemical pneumonitis, which can be fatal.
- **Inhalation:** Excessive inhalation of vapors can cause:
 - ✓ nasal and respiratory irritation
 - ✓ dizziness
 - ✓ Weakness
 - ✓ Fatigue
 - ✓ Nausea
 - ✓ headache.
 - ✓ High concentrations may result in narcosis (central nervous system depression).
- **Chronic Exposure:** may cause damage to:
 - ✓ the central nervous system
 - ✓ respiratory system
 - ✓ lungs
 - ✓ Eyes
 - ✓ Skin
 - ✓ gastrointestinal tract
 - ✓ liver, spleen, and kidneys.

Other health effects: IARC (International Agency for Research on Cancer) has re-classified styrene from a Group 3 substance to a Group 2B substance. This is not based on any significant new evidence that styrene might be carcinogenic, but rather on a broadening of the definition for Group 2B classification.

4. First Aid Measures

Eyes:

- Flush with large amounts of water for at least 15 minutes
- Call a physician.

Skin:

- Remove contaminated clothing
- wash skin thoroughly with soap and water.
- If irritation continues, seek medical aid.

Swallowing:

- **Do not induce vomiting**
- Call a physician.

Inhalation:

- Remove from exposure
- If breathing is stopped, administer artificial respiration or oxygen as indicated.
- Seek medical aid; if symptoms persist, consult a physician.

5. Fire Fighting Measures

Autoignition Temperature:

Flash Point: 90°F PENSKEY-MARTEN CLOSED CUP

Flammable Limits - LEL: 1.10%

Flammable Limits - UEL: 6.10%

Fire and Explosion Hazards:

- High temperature exposure for extended periods of time will result in spontaneous uncontrolled exothermic polymerization

Extinguishing Media:

- Foam
- Carbon dioxide
- Chemical

Fire Fighting Instructions:

- Cool tank drums with water
- Firefighters should wear self-contained breathing apparatus and protective clothing

6. Handling and Storage

Handling:

- Avoid prolonged or repeated contact with skin
- Avoid eye contact
- Work with adequate general and local exhaust ventilation to minimize exposure to vapors.

Storage:

- Store in a cool dry place away from oxidizers
- **Do not store in direct sunlight.**

7. Exposure Controls / Personal Protection

Engineering Controls:

- Local exhaust ventilation should be used to control the emission of air contaminants
- General dilution ventilation may assist with the reduction of contaminate concentrations.

Eye Protection:

- OSHA compliant goggles or face shields recommended.

Skin Protection:

- Polyvinyl alcohol gloves and polyethylene garments are recommended.

Other Equipment:

- Emergency eye wash stations should be located in the work areas.

8. Physical and Chemical Properties

Boiling Point:	293 ^o f	Vapor Pressure:	3.56 mm Hg
Specific Gravity	0.70 (H ₂ O) = 1.0)	Vapor Density:	2.98 (Air = 1)
Melting Point:	N/A	% Volatiles by vol.	12-16
		Solubility in Water:	n/a

9. Stability and Reactivity

Stability:

- Stable under normal conditions.
- Avoid exposure to temperatures above 100 °F or 38°C.

Materials and Conditions to Avoid:

- Avoid contact with strong mineral acids, peroxides, oxidizing agents, and polymerization catalysts.

Hazardous Polymerization: Can occur

Hazardous Decomposition or By-Products

- Thermal decomposition may yield:
 - ✓ carbon monoxide/dioxide,
 - ✓ low molecular weight hydrocarbons
 - ✓ organic acids.

11. Toxicological Information

12. Ecological Information

13. Disposal Considerations

Waste Disposal Method:

EPA Hazardous Waste Number (RCRA):

14. Transport Information

Shipping Description: RESIN SOLUTION, UN1866, CLASS 3, PG III
MARINE POLLUTANT (CONTAINS STYRENE MONOMER)

15. Regulatory Information

TSCA STATUS: This substance or mixture appears on the TOXIC SUBSTANCES CONTROL ACT INVENTORY. SARA Hazard categories (section 311 and section 312): Reactivity, Immediate Health, Delayed Health, Fire

Hazardous Material Identification System

Health: 2
Flammability: 3
Reactivity: 2

NFPA Rating (Nat'l Fire Protection Association)

Health: 2
Flammability: 3
Reactivity: 2

16. Other Information

Preparation Date: 11/16/2010

Prepared by: Fiberlay Inc

Comments: This Material Safety Data Sheet was prepared using information provided by Fiberlay Inc, and CCINFO

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Revisions: None