

Material Safety Data Sheet

Freeman Tuf-Fil Mahogany

Date of Preparation: October 2, 2008

Revision:

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: Freeman Tuf-Fil Mahogany

Chemical Family: Polyester

CAS Number: N/A

Other Designations: N/A

General Use: N/A

Manufacturer: Freeman Manufacturing and Supply Company, 1101 Moore Road, Avon, OH 44011 Phone (440) 934-1902, FAX (440) 934-7200, Hours of Operation 8-5, Emergency phone number 1-800-424-9300.

HMIS

H 2

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R 1

PPE†

†Sec. 8

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Inhalation,
Irritation, Skin defatting

Section 2 - Composition / Information on Ingredients

| Ingredient Name | CAS Number | % wt or % vol |
|------------------|-------------|------------------|
| Polyester Resin | Proprietary | 30-40 |
| Styrene Monomer | 100-42-5 | 5-15 |
| Titanium Dioxide | 13463-67-7 | <1 |

| Ingredient | OSHA PEL | | ACGIH TLV | | Vapor Pressure |
|------------------|---------------------|----------------------|----------------------|-------------|------------------|
| | TWA | STEL | TWA | STEL | |
| Styrene Monomer | 50 ppm | 100 ppm | 50 ppm | 100 ppm | 4.5 mm Hg @ 68°F |
| Titanium Dioxide | 5 mg/m ³ | 15 mg/m ³ | 10 mg/m ³ | None estab. | N/A |

Section 3 - Physical and Chemical Properties

Physical State: N/A

Appearance and Odor: Smooth paste, pungent odor

Odor Threshold: N/A

Vapor Pressure: Not determined

Vapor Density (Air=1): >1.0

VOC Content: 1.20 lb/gal

Density: N/A

Specific Gravity (H₂O=1, at 4 °C): 1.7

pH: N/A

Water Solubility: Insoluble

Other Solubilities: N/A

Boiling Point: N/A

Freezing/Melting Point: N/A

Viscosity: N/A

Refractive Index: N/A

Surface Tension: N/A

% Volatile: 10 – 15%

Evaporation Rate (n-Butyl Acetate =1): <1

Section 4 - Fire-Fighting Measures

Flash Point: 95 °F (35 °C)

Flash Point Method: SETA Closed Cup

Burning Rate: N/A

Autoignition Temperature: N/A

LEL: Styrene: 1.1% v/v

UEL: Styrene: 6.1% v/v

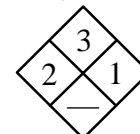
Flammability Classification: N/A

Extinguishing Media: Foam, carbon dioxide, or dry chemical

Unusual Fire or Explosion Hazards: Styrene will polymerize readily at elevated temperatures of fire conditions. If this occurs in a closed container, there is a possibility of violent rupture.

Hazardous Combustion Products: N/A

NFPA



Fire-Fighting Instructions: None known. However, firefighters should wear self-contained breathing apparatus to avoid inhalation of smoke or vapors. Do not release runoff from fire control methods to sewers or waterways.

Fire-Fighting Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

Section 5 - Stability and Reactivity

Stability: Stable at room temperature in closed containers under normal storage and handling conditions.

Polymerization: Hazardous polymerization can occur in sunlight, open flames, and contamination.

Chemical Incompatibilities: Strong acids and oxidizing agents.

Conditions to Avoid: Heat and direct sunlight.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, low molecular weight hydrocarbons, and organic acids.

Section 6 - Health Hazard Information

Potential Health Effects

Primary Entry Routes: Inhalation, skin

Effects of Overexposure:

Skin: Prolonged or frequent contact may cause defatting and dryness of the skin with resultant irritation and possible dermatitis. Styrene may be absorbed through the skin in toxic amounts.

Eyes: May cause irritation. Liquid splashes may result in more serious injuries. May cause lachrymation (tears).

Inhalation: Vapors may cause mucous membrane irritation and upper respiratory tract discomfort. High concentrations may result in headache, nausea, insensibility and other central nervous system effects. Repeated exposure to high concentrations may cause liver and kidney damage.

Ingestion: May cause gastrointestinal disturbances, pain, and discomfort.

Carcinogenicity: The International Agency for Research on Cancer (IARC) has classified styrene as possibly carcinogenic to humans (Class 2B). The IARC 2B classification is not based on significant new evidence that styrene might be a carcinogen, but on a revised IARC classification scheme and new data on styrene oxide. IARC has classified Titanium Dioxide to be a Class 2B suspect human carcinogen

Styrene: LD50 (Oral/Rat) 5 GM/KG; LD50 (DRML/Rabbit) 2820 Mg/Kg; LC50 (INHL/Rat) 24 Gm/M3/4H

Emergency and First Aid Procedures

Inhalation: Remove victim from exposure. If victim is unconscious, administer artificial respiration and/or oxygen as needed. Seek medical aid.

Eye Contact: Flush with copious amounts of water for 15 minutes. Seek immediate medical aid.

Skin Contact: Wash with soap and water.

Ingestion: Do not induce vomiting (aspiration hazard). Seek immediate medical aid.

After first aid, get appropriate in-plant, paramedic, or community medical support.

Note to Physicians: N/A

Special Precautions/Procedures: N/A

Section 7 - Spill, Leak, and Disposal Procedures

Spill /Leak Procedures: Remove saturated clothing promptly and wash affected areas with soap and water. Remove all sources of ignition, ventilate area. Absorb with inert materials such as vermiculite or sand and place in a closed container.

Containment: For large spills, dike far ahead of liquid spill for later disposal. Do not release into sewers or waterways.

Cleanup: N/A

Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

Disposal: Disposal of this material and its container, requires compliance with applicable labeling, packaging, and record keeping standards. Extreme care should be taken to ensure that it is disposed of only in a facility permitted for disposal of hazardous wastes. Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.

Disposal Regulatory Requirements: N/A

Container Cleaning and Disposal: N/A

Ecological Information: N/A

DOT Transportation Data (49 CFR 172.101):

Shipping Name: Polyester Resin Kit

Shipping Symbols:

Hazard Class: 3

ID No.: UN 3269

Packing Group:

Label: Consumer Commodity,
ORM-D (gal);
Flammable Class 3 (3 gal)

Special Provisions (172.102):

Packaging Authorizations

a) **Exceptions:** 173.152

b) **Non-bulk Packaging:**

c) **Bulk Packaging:**

Quantity Limitations

a) **Passenger, Aircraft, or Railcar:**

b) **Cargo Aircraft Only:**

Vessel Stowage Requirements

a) **Vessel Stowage:**

b) **Other:**

Prepared By:

Revision Notes:

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