

# Material Safety Data Sheet

## Freeman 945 Resin

Date of Preparation: January 3, 2007

Revision:

### Section 1 - Chemical Product and Company Identification

**Product/Chemical Name:** Freeman 945 Resin

**Chemical Family:** Epoxy

**CAS Number:** N/A

**Other Designations:** N/A

**Intended Use or Product Type:** Heat Resistant Surface Coat Resin

**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 800-424-9300

**HMIS**

**H** 2

**F** 1

**R** 1

**PPE**†

†Sec. 8

### ☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Causes severe skin irritation. Causes eye irritation. May cause skin burns and allergic skin reaction.

### Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number
* Butanediol Diglycidyl Ether	2425-79-8
* Bisphenol A Diglycidyl Ether Polymer	25068-38-6
* Epoxy Phenol Novolac	28064-14-4

\* = OSHA Hazardous Ingredient

Ingredient	OSHA		ACGIH	
	PEL	STEL	TWA	STEL
Butanediol Diglycidyl Ether	none estab.	none estab.	none estab.	none estab.
Bisphenol A Diglycidyl Ether Polymer	none estab.	none estab.	none estab.	none estab.
Epoxy Phenol Novolac	none estab.	none estab.	none estab.	none estab.

### Section 3 - Physical and Chemical Properties

**Physical State:** Thin Paste

**Color:** Gray

**Vapor Pressure:** 0.01 mm Hg at 77 °F (25 °C)

**Vapor Density (Air=1):** Not determined

**VOC:** 0 g/L

**Specific Gravity (H<sub>2</sub>O=1, at 4 °C):** 1.49

**Water Solubility:** Negligible

**Boiling Point:** >350 F (>177 C)

**% Volatile:** Negligible

**Evaporation Rate:** Not determined

**pH:** Not determined

### Section 4 - Fire-Fighting Measures

**Flash Point:** >300 °F (>149 °C)

**Flash Point Method:** PMCC

**Flammable Limits in Air (Lower - % by volume):** Not established

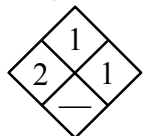
**Flammable Limits in Air (Upper - % by volume):** Not established

**Fire Fighting Extinguishing Media:** Carbon dioxide, dry chemical, foam, water

**Fire-Fighting Equipment:** Use self-contained breathing apparatus.

**Fire and Explosion Hazards:** Decomposition and combustion products may be toxic.

NFPA



### Section 5 - Stability and Reactivity

**Stability:** Stable

**Conditions to Avoid:** Excessive heat for prolonged periods of time.

**Incompatibility:** Strong oxidizers, acids, and bases

**Hazardous Decomposition Products:** Combustion may form toxic materials, such as carbon dioxide, carbon monoxide.

**Hazardous Polymerization:** Will not occur.

## Section 6 - Health Hazard Information

### Potential Health Effects

**Primary Entry Routes:** Dermal; heated product may produce inhalable vapors.

**Overexposure Effects:** Causes severe skin irritation. Causes eye irritation. May cause skin burns and allergic skin reaction

**Medical Conditions Aggravated by Exposure:** Skin and eye conditions.

**Additional Information:** Referral to a physician is recommended if there is any question about the seriousness of any injury.

### Emergency and First Aid Procedures

**Inhalation:** Remove to fresh air. Contact a physician.

**Eyes:** Immediately flush eyes with water for at least 15 minutes. Call a physician.

**Skin:** Immediately wash with soap and water. Remove contaminated clothing and launder before reuse. Destroy contaminated shoes.

**Ingestion:** If conscious, give 2-4 glasses of water to drink. Do not induce vomiting. Call a physician.

## Section 7 - Spill, Leak, and Disposal Procedures

**Accidental Release Measures:** Remove spillage by absorbing in absorbent material.

**Waste Disposal Method:** Consult qualified local or corporate personnel for method that will comply with local, state and federal health and environmental regulations.

### Toxicological Information:

**Sensitization:** Possible in susceptible individuals.

**Skin Irritation:** Severe skin irritant.

**Eye Irritation:** Irritant.

**Ecological Information:** N/A

### Regulatory Information:

#### US Federal Regulations:

**Occupational Safety and Health Act (OSHA):** This product is considered to be a hazardous chemical under the OSHA Hazard Communication Standard (29CFR 1910.1200).

**Resource Conservation and Recovery Act (RCRA):** Not a hazardous waste under RCRA (40 CFR 261).

**SARA Title III: Section 313 Toxic Chemical List (TCL):** This product contains the following chemical(s) for routine annual toxic chemical release reporting under Section 313 (40 CFR 372). This information must be included in all MSDS's copied or distributed for this material.

Chemical Name: Aluminum

Percent Composition: 35.76% by wt

Comment:

**TSCA Section 8(b) - Inventory Status:** All chemical components of this product are in compliance with TSCA inventory requirements.

**TSCA Section 12(b) - Export Notification:** This product does not contain any chemical(s) that are subject to a Section 12(b) export notification.

**State Regulations:**

**California Proposition 65:** The following is required composition information. This product contains the following chemical(s) which are currently listed on the California list of Known Carcinogens and Reproductive Toxins:

Quartz (CAS # 14808-60-7) (airborne particles of respirable size) is listed as a carcinogen on California's Proposition 65. Contains trace amounts of Quartz (CAS # 14808-60-7) which is on the New Jersey and Pennsylvania Right to Know Lists.

May contain trace amounts of Phenyl Glycidyl Ether (CAS #: 122-60-1) which is listed as a carcinogen on California's Proposition 65. It is also listed on the New Jersey and Pennsylvania Right to Know Lists.

Aluminum (CAS #: 7429-90-5) is on the Pennsylvania Right to Know List

### Section 8 - Exposure Controls / Personal Protection

**Engineering Controls:** General mechanical and local exhaust in accordance with ACGIH recommendations.

**Respiratory Protection:** Use NIOSH approved organic vapor cartridge respirator when vapor/mist exposure is likely.

**Eye Protection:** Wear splash-proof chemical goggles.

**Skin Protection:** Wear impermeable gloves.

### Section 9 - Special Precautions and Comments

**Handling and Storage:**

**Signal Word:** Danger!

**Precautions:** Causes severe skin irritation and may cause skin burns. Can cause eye irritation and allergic skin reaction. Do not get on skin or on clothing. Avoid contact with eyes. Wash thoroughly after handling.

**Other Handling Information:** Nuisance dust may be generated when sanding or sawing cured material.

#### DOT Transportation Data (49 CFR 172.101):

**Shipping Name:**

Liquid Plastic, N.O.I.

**Shipping Symbols:**

**Hazard Class:** Not Regulated

**ID No.:**

**Packing Group:**

**Label:**

**Special Provisions (172.102):**

**Packaging Authorizations**

**a) Exceptions:**

**b) Non-bulk Packaging:** X

**c) Bulk Packaging:**

**Department of Transportation:**

Not regulated

**Quantity Limitations**

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

**b) Cargo Aircraft Only:**

**Vessel Stowage Requirements**

**a) Vessel Stowage:**

**b) Other:**

**Disclaimer:** The following supersedes Buyer's documents. SELLER MAKES NO REPRESENTATION OR WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. No statements herein are to be construed as inducements to infringe any relevant patent. Under no circumstances shall Seller be liable for incidental, consequential or indirect damages for alleged negligence, breach of warranty, strict of liability arising in connection with the product(s). Buyer's sole remedy and Seller's sole liability for any claims shall be Buyer's purchase price. Data and results are based on controlled lab work and must be confirmed by Buyer by testing for its intended conditions of use. The product(s) has not been tested for, and is therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended; or for uses for which implantation within the human body is intended.