

# Material Safety Data Sheet

## Freeman 601 Resin

Date of Preparation: 11/15/04

Revision:

### Section 1 - Chemical Product and Company Identification

**Product/Chemical Name:** Freeman 601 Resin

**Chemical Family:** Epoxy

**CAS Number:** N/A

**Other Designations:** N/A

**Intended Use or Product Type:** Filled Epoxy 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 800-424-9300.

**HMIS**

**H** 2

**F** 1

**R** 0

**PPE†**

†Sec. 8

#### ☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

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

### Section 2 - Composition / Information on Ingredients

| Ingredient Name  | CAS Number | Carcinogen Status |     |      |
|--|------------|-------------------|-----|------|
|  |            | IARC              | NTP | OSHA |
| * Phenol, 4,4`-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane<br>Common Name: Bisphenol A diglycidyl ether polymer | 25068-38-6 | NR                | NR  | NR   |
| * 1,2-Benzenedicarboxylic acid, dibutyl ester<br>Common Name: Dibutyl Phthalate  | 84-74-2    | NR                | NR  | NR   |

\* = OSHA Hazardous Ingredient NR = Not Reviewed

| Ingredient   | OSHA        |             | ACGIH       |             | MFR         |
|--|-------------|-------------|-------------|-------------|-------------|
|  | PEL         | STEL        | TWA         | STEL        |             |
| Phenol, 4,4`-(1-Methylethylidene) Bis-Polymer with (Chloromethyl) Oxirane<br>Common Name: Bisphenol A Diglycidyl Ether Polymer | none estab. | none estab. | none estab. | none estab. | none estab. |
| 1,2-Benzenedicarboxylic acid, dibutyl ester<br>Common Name: Dibutyl Phthalate  | 5 mg/m3     | none estab. | 5 mg/m3     | none estab. | none estab. |

### Section 3 - Physical and Chemical Properties

**Physical State:** Liquid

**Color:** White

**Vapor Pressure:** Not determined

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

**Specific Gravity (H<sub>2</sub>O=1, at 4 °C):** 1.4

**Water Solubility:** Insoluble

**Boiling Point:** >500F (>260C)

**% Volatile:** Negligible

**Evaporation Rate:** Not determined

**pH:** Not determined

## Section 4 - Fire-Fighting Measures

**Flash Point:** >400 °F (>204 °C)

**Flash Point Method:** Setaflash

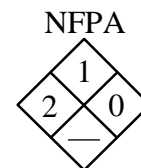
**LEL:** Not established

**UEL:** Not established

**Extinguishing Media:** Carbon dioxide, dry chemical, foam, water.

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

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



## 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 or 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 skin and eye irritation. May cause allergic skin reaction.

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

**Chronic Effects:** This product contains dibutyl phthalate which may cause adverse reproductive effects in laboratory animals. The relevance to humans is not known.

**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. Call 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.

### Ecological Information:

### Toxicological Information:

**Sensitization:** Possible in susceptible individuals.

**Skin Irritation:** Irritant.

**Eye Irritation:** Irritant.

**Additional Information:** This product contains dibutyl phthalate which may cause adverse reproductive effects in laboratory animals. The relevance to humans is not known.

**Revision:****Freeman 601 Resin****Regulatory Information:****U.S. Federal Regulations:**

**OSHA:** This MSDS has been prepared in compliance with the federal OSHA Hazard Communication Standard 29 CFR 1910.1200. This product is considered to be a hazardous chemical under that standard.

**RCRA Status:** Not a hazardous waste under RCRA (40 CFR 261).

**SARA Title III: Section 313 Toxic Chemical List (TCL):** This product contains a toxic 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: 1,2-Benzenedicarboxylic acid, dibutyl ester

Common Name: Dibutyl phthalate

Percent in Composition: 13.127% by wt

**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:** This product does not contain any chemicals currently on the California list of Known Carcinogens and Reproductive Toxins.

**Pennsylvania Right-To-Know:** The following is required composition information:

Chemical Name: Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane

Common Name: Bisphenol A Diglycidyl Ether Polymer

CAS Number: 25068-38-6

Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Limestone

Common Name: Calcium Carbonate

CAS Number: 1317-65-3

Comment: Hazardous Substance

Chemical Name: 1,2-Benzenedicarboxylic acid, dibutyl ester

Common Name: Dibutyl phthalate

CAS Number: 84-74-2

Comment: Environmental Hazardous Substance

Chemical Name: Titanium Oxide

Common Name: Titanium dioxide

CAS Number: 13463-67-7

Comment: Hazardous Substance

**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.

**Skin Protection:** Wear impermeable gloves.

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

## Section 9 - Special Precautions and Comments

**Handling and Storage:****Signal Word:** Warning!**Precautions:** Can cause skin irritation, eye irritation, and allergic skin reaction. Avoid contact with eyes, skin and clothing. 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:** Resin

Compounds, N.O.I.

**Shipping Symbols:****Hazard Class:****ID No.:****Packing Group:****Packaging Authorizations****a) Exceptions:****b) Non-bulk Packaging:** Non-Bulk**c) Bulk Packaging:****Label:****Special Provisions (172.102):****Department of Transportation:**

Not regulated as a hazardous material by the U.S. DOT 49 CFR 172.101 hazardous materials table.

**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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