

# Material Safety Data Sheet

## Freeman 701 Resin

Date of Preparation: January 23, 2007

Revision:

### Section 1 - Chemical Product and Company Identification

**Product/Chemical Name:** Freeman 701 Resin

**Chemical Family:** Epoxy

**CAS Number:** N/A

**Other Designations:** N/A

**Intended Use or Product Type:** Filled Epoxy

**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** 3

**F** 1

**R** 0

**PPE†**

†Sec. 8

#### ☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Corrosive - Causes eye burns and skin irritation. May cause allergic skin reaction.

### Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number
* Crystalline silica	14808-60-7
* Bisphenol A diglycidyl ether polymer	25068-38-6
* Nonyl Phenol	25154-52-3
* Butylphenyl glycidyl ether	3101-60-8
*Titanium Dioxide	13463-67-7

\* = OSHA Hazardous Ingredient

Ingredient	OSHA		ACGIH	
	PEL	STEL	TWA	STEL
Crystalline silica	0.1 mg/m <sup>3</sup>	none estab.	0.05 mg/m <sup>3</sup>	none estab.
Bisphenol A diglycidyl ether polymer	none estab.	none estab.	none estab.	none estab.
Nonyl Phenol	none estab.	none estab.	none estab.	none estab.
Butylphenyl glycidyl ether	none estab.	none estab.	none estab.	none estab.
Titanium Dioxide	5 mg/m <sup>3</sup>	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	none estab.

### Section 3 - Physical and Chemical Properties

**Physical State:** Paste

**Color:** White

**Vapor Pressure:** Not determined

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

**Specific Gravity (H<sub>2</sub>O=1, at 4 °C):** 1.531

**Water Solubility:** Insoluble

**Boiling Point:** >500° F (>260° C)

**% Volatile:** Negligible

**Evaporation Rate:** Not determined

**pH:** Not determined

### Section 4 - Fire-Fighting Measures

**Flash Point:** >200°F (>93°C)

**Flash Point Method:** Setaflash

**LEL:** Not established

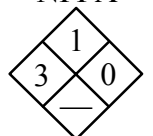
**UEL:** Not established

**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.

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

**Chronic:** This product contains Crystalline silica. Repeated inhalation of respirable free Crystalline silica dust may cause delayed lung injury (silicosis) and cancer.

**Overexposure Effects:** Corrosive – causes eye burns and skin irritation. May cause 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.

**Carcinogenicity:** IARC has classified Titanium Dioxide to be a Class 2B suspect human carcinogen

### Emergency and First Aid Procedures

**Inhalation:** Remove to fresh air. Seek immediate medical attention.

**Eyes:** Immediately flush eyes with water for at least 15 minutes. Seek immediate medical attention.

**Skin:** Immediately wash with soap and water. Remove contaminated clothing and laundry before reuse. Destroy contaminated shoes. Seek immediate medical attention.

**Ingestion:** Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

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

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

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

**Ecological Information:** N/A

### Toxicological Information:

**Sensitization:** Possible in susceptible individuals.

**Carcinogenicity:** This product contains crystalline silica. Repeated inhalation of respirable free crystalline silica dust may cause delayed lung injury (silicosis) and cancer.

**Skin Irritation:** Irritant.

**Eye Irritation:** Corrosive. Causes burns.

**Sub-Chronic:** Butyl benzyl phthalate (BBP) produced liver necrosis and pancreatic lesions at a dose of approximately 675 mg/kg/day and 275 mg/kg/day, respectively, during a 90-day oral administration study with rats. The no observable effect levels (NOEL) were approximately 275 and 110 mg/kg/day, respectively.

### Regulatory Information:

#### US Federal Regulations:

**Occupational Safety and Health Act (OSHA):** This material Safety Data Sheet (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.

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

**SARA Title III Section 313 Toxic Chemical List (TCL):** This product does not contain any chemicals for routine annual toxic chemical release reporting under Section 313 (40 CFR 372).

**Revision:**

**Freeman 701 Resin**

**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 chemicals 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:

Chemical Name: Quartz (SiO2) (CAS # 14808-60-7 ) at 0.2023% by wt. which is known to the State of California to cause cancer.

May contain trace amounts of Arsenic (CAS # 7440-38-2) and Lead (CAS # 7439-92-1) which are known to the State of California to cause cancer and birth defects or other reproductive harm.

Crystalline silica (CAS # 14808-60-7) is found on the New Jersey and Pennsylvania Right to Know Lists  
Nonyl Phenol (CAS # 25154-52-3), and Limestone (CAS # 1317-65-3) are on the Pennsylvania Right to Know List.  
Titanium dioxide ( CAS #: 13463-67-7) is on the New Jersey and Pennsylvania Right to Know Lists

**Section 8 - Exposure Controls / Personal Protection**

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

**Skin Protection:** Wear impermeable gloves.

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

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

**Section 9 - Special Precautions and Comments**

**Handling and Storage:**

**Signal Word:** Danger!

**Precautions:** Corrosive. Causes eye burns and skin irritation. May cause allergic skin reaction. Do not get in eyes. Avoid contact with skin and clothing. Avoid breathing vapor or mist. Avoid prolonged or repeated contact with skin. Keep container closed. Use adequate ventilation. Wash thoroughly after handling.

**Other Handling Information:** Crystalline silica may be generated when machining cured products. Overexposure may create possible cancer and silicosis hazard.

**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:**

**Prepared By:**

**Revision Notes:**

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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.