

# Material Safety Data Sheet

## Freeman 1075 Resin

Date of Preparation: January 3, 2007

Revision:

### Section 1 - Chemical Product and Company Identification

**Product/Chemical Name:** Freeman 1075 Resin

**Chemical Family:** Isocyanate

**CAS Number:** N/A

**Other Designations:** N/A

**Intended Use or Product Type:** Rapid High Strength Elastomer System 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 ☆☆☆☆☆

Can cause skin irritation, eye irritation, allergic respiratory reaction, and allergic skin reaction. Can be harmful if inhaled.

### Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	% wt or % vol
Benzene, 1,1'-Methylenebis(4-Isocyanato-Modified MDI	101-68-8	40-50
Diphenylmethane Diisocyanate	25686-28-6	N/A
Diisodecyl Phthalate	26447-40-5	N/A
	26761-40-0	N/A

Ingredient	OSHA		ACGIH	
	PEL	STEL	TWA	STEL
Benzene, 1,1'-Methylenebis(4-Isocyanato-Modified MDI	0.02 ppm	none estab.	0.005 ppm	none estab.
Diphenylmethane Diisocyanate	none estab.	none estab.	none estab.	none estab.
Diisodecyl Phthalate	none estab.	none estab.	none estab.	none estab.

### Section 3 - Physical and Chemical Properties

**Physical State:** Liquid

**Color:** Clear, Amber

**Vapor Density (Air=1):** >1

**Specific Gravity (H<sub>2</sub>O=1, at 4 °C):** 1.1

**pH:** Not determined

**Water Solubility:** Reacts with water

**Boiling Point:** Not determined

**% Volatile:** Negligible

**VOC:** 0 g/L

**Evaporation Rate:** Not determined

### Section 4 - Fire-Fighting Measures

**Flash Point:** >200 °F (>93 °C)

**Flash Point Method:** Estimated

**LEL:** Not established

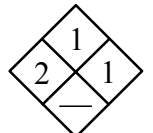
**UEL:** Not established

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

**Unusual Fire or 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.

**Chemical Incompatibilities:** Strong oxidizers, acids and bases.

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

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

## Section 6 - Health Hazard Information

### Potential Health Effects

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

**Overexposure Effects:** Can cause skin irritation, eye irritation, allergic respiratory reaction, and allergic skin reaction. Can be harmful if inhaled.

**Medical Conditions Aggravated by Long-Term Exposure:** Persons with asthmatic-type conditions, chronic bronchitis, other chronic respiratory diseases, eye conditions or recurrent skin eczema or sensitization should be excluded from working with isocyanates.

### Emergency and First Aid Procedures

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

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

**Skin Contact:** 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.

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

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

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

### Disposal:

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

Additional Information: Disposal of Cured Product: This product when cured may contain very small quantities of organic mercury compounds. It is the responsibility of the user to determine if the selected disposal method complies with applicable regulations.

**Ecological Information:** N/A

### Toxicological Information:

Inhalation Toxicity (LC50): Component(s) are toxic, 2-20 mg/l or 200-2000 ppm.

Sensitization: Causes allergic skin and respiratory sensitivity in some people.

Skin Irritation: Irritant.

Eye Irritation: Irritant.

### 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 (29 CFR 1910.1200).

Resource Conservation and Recovery Act (RCRA): Not specifically listed as hazardous waste under RCRA (40 CFR 261). However, it is strongly recommended that compound be treated as a hazardous waste and disposed of accordingly.

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: Benzene, 1,1'-Methylenebis(4-Isocyanato-

Common Name: MDI

Percent in Composition: 43.5% by wt.

TSCA Section 8(b) - Inventory Status: Chemical components listed on TSCA Inventory.

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

**Revision:****Freeman 1075 Resin**

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.

Benzene, 1,1'-Methylenebis(4-Isocyanato- (MDI) (CAS # 101-68-8) 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.

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

**Skin Protection:** Wear impermeable gloves.

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

**Safety Stations:** Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

**Comments:** Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

### Section 9 - Special Precautions and Comments

**Handling and Storage**

**Signal Word:** Warning!

**Precautions:** Can cause skin irritation, eye irritation, allergic respiratory reaction, and allergic skin reaction. Can be harmful if inhaled. Avoid breathing vapor or mist. Avoid contact with eyes, skin, and clothing. Keep container closed when not in use. Use with adequate ventilation. Wash thoroughly after handling.

#### 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:**

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