

# Safety Data Sheet

# Freeman 2450 Resin

# Section 1 Identification

Section 1 Identification					
Product Identifiers Freeman 2450 Resin, Part A Relevant Identified uses of the Substance or Mixture and us Resin component of polyurethane elastomer. For indust Details of the Supplier of the Safety Data Sheet Freeman Manufacturing & Supply Company 1101 Moore Road, Avon, OH 44011-4043 USA Telephone: +1 (440) 934-1902 Email: contactus@freemansupply.com					
Section 2 Hazards Identification					
Acute Toxicity (Inhalation), Category 4 Skin Irritation, Category 2 Eye Irritation, Category 2B Respiratory Sensitization, Category 1 Skin Sensitization, Category 1 Specific Target Organ Toxicity (Respiratory Tract) – Sin Specific Target Organ Toxicity (Respiratory Tract) – Rep Label Elements					
<ul> <li>Danger</li> <li>Hazard Statements</li> <li>H315 Causes skin irritation.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H320 Causes eye irritation.</li> <li>H320 Causes eye irritation.</li> <li>H332 Harmful if inhaled.</li> <li>H334 May cause allergy or asthma symptoms or breathine</li> <li>H335 May cause allergy or asthma symptoms or breathine</li> <li>H336 May cause drowsiness or dizziness.</li> <li>H373 May cause damage to organs (lungs and respirator)</li> <li>Precautionary Statements</li> <li>P260 Do not breathe fumes, vapors, mists or sprays.</li> <li>P264 Wash thoroughly after handling.</li> <li>P271 Use only outdoors or in a well-ventilated area.</li> <li>P272 Contaminated work clothing should not be allowe</li> <li>P280 Wear protective gloves, eye protection, and face p</li> <li>P284 In case of inadequate ventilation, wear respiratory</li> <li>P302+P352 IF ON SKIN: Wash with plenty of soap and v</li> <li>P304+P340 IF INHALED: Remove person to fresh air an</li> <li>P305+P351+P338 IE IN EVES: Rinse cautiously with was</li> </ul>	ry system) through prolonged or repeated exposure. d out of the workplace. rotection. y protection. vater. d keep comfortable for breathing.				
	d keep comfortable for breathing.				

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# Freeman 2450 Resin

### Section 2 Hazards Identification

P333+P317 If skin irritation or rash occurs: Get medical help.

P337+P317 If eye irritation persists: Get medical help.

P342+P316 If experiencing respiratory symptoms: Get emergency medical help immediately.

P362+P364 Take off contaminated clothing and wash before reuse.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents and container in accordance with local, regional and national regulations.

### **Supplemental Information**

Individuals sensitized to isocyanates should discontinue use. Long-term overexposure to isocyanates may cause lung damage. This is one part of a two-part system. Read and understand the hazard information on Part B before using.

### Section 3 Composition/Information on Ingredients

Ingredient Name	CAS Number	Concentration (%)
Polymeric methylenediphenyl diisocyanate (MDI)	9016-87-9	85-100

Other ingredients are not listed because they are either not hazardous or are below cutoff/concentration thresholds.

### **Section 4 First Aid Measures**

### **Description of First Aid Measures**

**Eye Contact**: Rinse thoroughly with water for at least 15 minutes, holding the eyelids open to be sure the material is washed out. Get medical attention if irritation develops or persists.

**Skin Contact:** Remove contaminated clothing. Wash contact area thoroughly with soap and water. Get medical attention if irritation develops or persists. Launder clothing before re-use. Discard items that cannot be decontaminated.

**Inhalation:** Remove person to fresh air. Give artificial respiration if needed. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.

**Ingestion:** Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if you feel unwell.

### Most Important Symptoms/Effects

Causes skin and eye irritation. Vapors or mists may cause respiratory irritation. May cause allergic skin and/or respiratory reaction in sensitized persons. Symptoms include skin rash, wheezing, shortness of breath and other asthma symptoms. Prolonged inhalation overexposure may damage the lungs and respiratory system.

### Indication of Immediate Medical Attention/Special Treatment

Immediate medical attention is required for asthmatic symptoms or serious inhalation exposures. Respiratory symptoms, including pulmonary edema, may be delayed. Persons receiving significant exposure should be observed 24-48 hours for signs of respiratory distress. Persons sensitized to isocyanates should consult a physician regarding working with respiratory irritants or sensitizers.

### Section 5 Fire-Fighting Measures

### Extinguishing Media

Use water fog, foam, carbon dioxide or dry chemical. Do not use solid water stream. Solid stream of water into hot product may cause violent steam generation or eruption.



# **Section 5 Fire-Fighting Measures**

Section 5 Fire-Fighting Measures			
Specific Hazards			
Not classified as flammable or combustible. Produ	ct will burn under fire conditions.		
<b>Special Protective Equipment &amp; Precautions for Fire-F</b>			
Wear positive pressure, self-contained breathing a containers with water.	apparatus and full-body protective clothing. Cool fire-exposed		
Section 6 Accidental Release Measures			
Personal Precautions, Protective Equipment, and Em			
clothing to prevent eye and skin contact and avo	cy personnel from the area. Wear appropriate protective id breathing vapors. Ventilate area. Caution – spill area may		
be slippery. Methods and Materials for Containment and Cleanur			
Methods and Materials for Containment and Cleanup Cover with an inert absorbent material and colle	• ect into an appropriate container for disposal. Do not seal the		
	ontact with moisture and dangerous pressure buildup can		
	of water plus isopropyl alcohol (20%), household ammonia		
(10%), and detergent $(2%)$ .			
Section 7 Ha	andling and Storage		
	with adequate ventilation. Avoid contact with the eyes, skin o not eat, drink or smoke in the work area. Keep container		
Safe Storage			
	95°F. Store in original, unopened containers. Protect from		
atmospheric moisture and water since MDI react dangerous pressure build up in sealed containers	s with water to form carbon dioxide leading to potentially		
uangerous pressure bund up in search containers	).		
Section 8 Exposure C	ontrols/Personal Protection		
Occupational Exposure Limits			
Ingredient Name	Exposure Limits		
Methylenediphenyl Diisocyanate (MDI)	0.02 ppm (C) OSHA PEL		
	0.005 ppm TWA ACGIH TLV		
Appropriate Engineering Controls			
	ilation to maintain exposure levels below the occupational		
exposure limits. Personal Protective Equipment (PPE)			
	d respirator with organic vapor cartridges may be used.		
	contaminant type, form and concentration. For higher		
exposures or in an emergency, use a supplied-air			
<b>Skin Protection:</b> Wear impervious gloves, such	as butyl rubber or nitrile rubber.		
<b>Eye Protection:</b> Wear chemical safety goggles. <b>Other Protective Measures</b>			
Prevent skin contact and contamination of perso	onal clothing. An eye wash facility and washing facility licable regulations and good Industrial Hygiene practice.		
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### Section 9 Physical and Chemical Properties

Annoaranco	Brown liquid			
Appearance Odor	Musty			
Odor Threshold	0.4 ppm (MDI)			
pH	Not applicable			
Melting/Freezing Point	No data available			
Boiling Point	No data available			
Flash Point	>200°C (>392°F)			
Evaporation Rate	No data available			
Flammability Limits	No data available			
Vapor Pressure	$\leq 0.00001 \text{ mm Hg}$	at 25°C		
Vapor Density	No data available			
Relative Density	1.20			
Solubility	1.20 Insoluble in water			
Coefficient: n-Octanol/Water	Reacts with water			
Auto-Ignition Temperature				
Decomposition Temperature	No data available			
Viscosity	perature No data available 150-200 cP at 25°C			
VISCOSILY	130-200 CF at 23	L C		
	Section 10 Stability and	d Reactivity		
<b>Reactivity</b> Diisocyanates react with many m water generates carbon dioxide a		action increases with t	emperature. Reaction v	vith
Diisocyanates react with many m water generates carbon dioxide a Chemical Stability Stable under recommended cond Possibility of Hazardous Reactions Elevated temperatures can cause bases or water. Reaction with wa closed systems. Conditions to Avoid Avoid moisture and temperature pressure build up in closed conta fncompatible Materials Avoid contact with water, acids, I brass, tin copper).	ind heat. itions. hazardous polymerizatio ter generates carbon diox s below 60°F and above 9 iners. pases, alcohols, strong oxi	on. Polymerization can tide, and results in heat 5°F to protect product dizers, and some metal	be catalyzed by strong t and pressure buildup integrity and prevent ls (e.g., aluminum, zinc,	in
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Diisocyanates react with many m water generates carbon dioxide a chemical Stability Stable under recommended cond cossibility of Hazardous Reactions Elevated temperatures can cause bases or water. Reaction with wa closed systems. Conditions to Avoid Avoid moisture and temperature pressure build up in closed conta ncompatible Materials Avoid contact with water, acids, I brass, tin copper). Hazardous Decomposition Products Possibly isocyanate vapor, carbo released during decomposition.	Ind heat. itions. hazardous polymerization ter generates carbon diox s below 60°F and above 9 iners. pases, alcohols, strong oxi n monoxide, nitrogen oxic Section 11 Toxicological LC50 Inhalation	on. Polymerization can tide, and results in heat 5°F to protect product dizers, and some meta les, and traces of hydro Information LD <sub>50</sub> Oral	be catalyzed by strong t and pressure buildup integrity and prevent ls (e.g., aluminum, zinc, ogen cyanide. Gases are <b>LD</b> 50 <b>Dermal</b>	in



# Freeman 2450 Resin

## Section 11 Toxicological Information

Acute Health Effects         Fye Contact: Causes eye irritation.         Skin Contact: Causes skin irritation. May cause an allergic skin reaction.         Inhalation: At room temperature, vapors are minimal due to low volatility. Vapors or aerosols (e.g., generated during heating or spraying) may cause respiratory irritation and possibly pulmonary edema. May cause respiratory sensitization. For individuals sensitized to isocyanates, exposure may result in allergic respiratory reactions (e.g., coughing, wheezing, difficulty breathing).         Ingestion: No data available.         Chronic Health Effects         Respiratory Sensitization: May cause allergy or asthma symptoms or breathing difficulties if inhaled.         Skin Sensitization: May cause allergy or asthma symptoms or breathing difficulties if inhaled.         Skin Sensitization: May cause an allergic skin reaction.         Germ Cell Mutagenicity: Components are not classified as mutagens.         Carcinogenicity: Components are not classified as reproductive toxins.         Specific Target Organ Toxicity - Single Exposure: No data available         Specific Target Organ Toxicity - Repeated Exposure: Repeated or prolonged exposure to isocyanates above exposure limits may cause an allergic sensitization of the respiratory tract causing an asthma-like response upon re-exposure. Repeated overexposure to isocyanates has been associated with decreased lung function. Repeated or prolonged dermal contact with this product may cause allergic skin sensitization in some individuals.
Section 12 Ecological Information
<b>Ecotoxicity:</b> No data available. Avoid release to the environment. <b>Persistence and Degradability:</b> Diisocyantes are not readily biodegradable. <b>Bioaccumulative Potential:</b> Diisocyanates are not expected to bioaccumulate. <b>Mobility in Soil:</b> In the aquatic and terrestrial environment, movement is expected to be limited by its reaction with water forming predominantly insoluble polyureas.
Section 13 Disposal Considerations
Dispose according to local, state, and federal regulations. Do not dump in drains or sewers. Upon exposure to moisture, product forms an inert, non-hazardous solid.
Section 14 Transport Information
DOT/IMDG/IATA: Not regulated for transport
Section 15 Regulatory Information
<ul> <li>U.S. Federal Regulations         <ul> <li>CERCLA 103 Reportable Quantity: This product is not subject to reporting under CERCLA.</li> <li>Some states have more stringent reporting requirements.</li> <li>SARA Title III, Section 311/312: See Section 2</li> <li>Section 313 Toxic Chemicals: Contains the following chemicals subject to SARA Title III Section 313</li> <li>Reporting requirements: Diisocyanates Category (N120) 85-100%</li> <li>Section 302 Extremely Hazardous Substances (TPQ): None</li> <li>EPA Toxic Substances Control Act (TSCA) Status: All components in this product are listed on TSCA.</li> </ul> </li> </ul>
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### Freeman 2450 Resin

### Section 15 Regulatory Information

### **U.S. State Regulations**

**California Proposition 65:** This product does not contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

### REACH

**Annex XIV List of substances subject to authorization, substances of very high concern:** None of the components are listed.

### **Section 16 Other Information**

### **Training Advice**

All personnel using/handling this product should be trained in proper chemical handling and the need for and use of engineering controls and protective equipment.

### **Recommended Uses and Restrictions**

This product is intended for industrial/professional use only.

#### 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.

Initial release date: October 15, 2021 Previous revision date: October 15, 2021 Current revision date: February 25, 2025



# Freeman 2450 Hardener

S	Section 1 Identification				
Product Identifiers					
Freeman 2450 Hardener, Part B					
Relevant Identified Uses of the Substance or M	lixture				
Hardener component of polyurethane ela		professional use only			
Details of the Supplier of the Safety Data Sheet		storessional use only.			
Freeman Manufacturing & Supply Compa					
1101 Moore Road, Avon, OH 44011-4043	-	24 Hour Emergency Number			
Telephone: +1 (440) 934-1902		CHEMTREC (800) 424-9300	-		
Email: contactus@freemansupply.com					
Sectio	on 2 Hazards Identifica	tion			
GHS Classification in Accordance with 29 CFR	1910.1200 (OSHA HCS	)			
Eye Irritation, Category 2A					
Label Elements					
$\wedge$					
Warning					
Hazard statements					
H319 Causes serious eye irritation.					
Precautionary statements					
P264 Wash thoroughly after handling.					
P280 Wear eye protection and face protection	ction				
P305+P351+P338 IF IN EYES: Rinse cauti		varal minutas. Domovo contact	longog		
	-	verai minutes. Remove contact	lenses,		
if present and easy to do. Continue rinsing					
P337+P317 If eye irritation persists: Get	medical help.				
Supplemental Information	1 1 1 4 141 1		с ·		
This is one part of a two-part system. Rea	id and understand the ha	azard information on Part A be	efore using.		
Section 3 Comp	oosition/Information o	n Ingredients			
Ingredient Name	CAS Number	Concentration (%)			
Propoxylated amine	102-60-3	30-40			
2,2'-methliminodiethanol	105-59-9	0-5			
Other ingredients are not listed because t	how are either not have	dous or are below cut			
off/concentration thresholds.	ney are either not nazar	uous of are below cut-			
Sect	ion 4 First-Aid Measur	es			
Description of First Aid Measures					
<b>Eye Contact:</b> Rinse thoroughly with wate	er, holding the eyelids or	en to be sure the material is w	vashed out.		
Remove contact lenses if safe and easy to					
persists.					



# Freeman 2450 Hardener

# Section 4 First-Aid Measures Skin Contact: Remove contaminated clothing. Wash contact area thoroughly with soap and water. Get medical attention if irritation develops or persists. Wash contaminated clothing before reuse. Discard clothing that cannot be decontaminated. Inhalation: Remove person to fresh air. Get medical attention if symptoms develop or persist. **Ingestion:** Rinse mouth. Do NOT induce vomiting. Get medical attention if you feel unwell. Most Important Symptoms/Effects None known **Indication of Immediate Medical Attention/Special Treatment** Not expected to be required **Section 5 Fire-Fighting Measures Extinguishing Media** Use water fog, foam, carbon dioxide or dry chemical. Do not use solid water stream. Solid stream of water into hot product may cause violent steam generation or spread fire. **Specific Hazards** Not classified as flammable or combustible. Product will burn under fire conditions. Combustion products include oxides of carbon, phenolics, aldehydes and other toxic organic compounds. Special Protective Equipment & Precautions for Fire-Fighters Wear positive pressure, self-contained breathing apparatus and full-body protective clothing. Cool fire-exposed containers with water. **Section 6 Accidental Release Measures** Personal Precautions, Protective Equipment, and Emergency Procedures Clear unnecessary, unprotected personnel from the area. Wear appropriate protective clothing to prevent eye and skin contact and avoid breathing vapors. Methods and Materials for Containment and Cleanup Cover with an inert absorbent material and collect into an appropriate container for disposal. Avoid releases to the environment. Section 7 Handling and Storage **Precautions for Safe Handling** Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Do not eat, drink, or smoke in the work area. Keep container closed when not in use. Safe Storage Store indoors at temperatures below 120°F (49°C). Store in original containers. Avoid getting moisture into containers. Keep containers tightly closed. Store locked up. **Section 8 Exposure Controls/Personal Protection Occupational Exposure Limits** None established **Appropriate Engineering Controls** Use with adequate general or local exhaust ventilation to minimize exposure levels.



# Freeman 2450 Hardener

### Section 8 Exposure Controls/Personal Protection

### Personal Protective Equipment (PPE)

**Respiratory Protection:** If needed, an approved respirator with organic vapor cartridges may be used. Respirator selection and use should be based on contaminant type, form, and concentration. For higher exposures or in an emergency, use a supplied-air respirator. Use respirators in accordance with OSHA's Respiratory Protection Standard (29 CFR 1910.134).

Skin Protection: Wear impervious gloves, such as butyl rubber or nitrile rubber.

**Eye Protection:** Wear chemical safety glasses/goggles.

### **Other Protective Measures**

Prevent skin contact and contamination of personal clothing. An eye wash facility and washing facility should be available in the work area. Follow applicable regulations and good Industrial Hygiene practice.

### **Section 9 Physical and Chemical Properties**

Milky-white liquid

Appearance Odor **Odor Threshold** pН **Melting/Freezing Point Boiling Point Flash Point Evaporation Rate Flammability Limits Vapor Pressure Vapor Density Relative Density Solubility Coefficient: n-Octanol/Water Auto-Ignition Temperature Decomposition Temperature** Viscosity

Slight No data available No data available No data available No data available >100°C (>212°F) No data available No data available No data available No data available 1.03 Nil to slightly soluble in water No data available No data available No data available 1,800 cP at 25°C

### Section 10 Stability and Reactivity

Reactivity

Not normally reactive.

### **Chemical Stability**

Stable under recommended conditions.

#### **Possibility of Hazardous Reactions**

Exothermic reactions including polymerization may occur in contact with strong acids, strong bases, alcohols, strong oxidizing agents, and excessive heat.

#### **Conditions to Avoid**

Avoid excessive heat and ignition sources.

#### **Incompatible Materials**

Avoid contact with strong oxidizing agents, acids, and bases.

### **Hazardous Decomposition Products**

Carbon monoxide, carbon dioxide, aldehydes, and oxides of nitrogen.



# Freeman 2450 Hardener

# **Section 11 Toxicological Information Acute Toxicity Values** None established **Acute Health Effects** Eye Contact: Causes serious eye irritation. **Skin Contact:** May cause mild skin irritation. Inhalation: May cause mild respiratory irritation. Ingestion: Harmful if swallowed. **Chronic Health Effects** Respiratory Sensitization: Components are not classified as respiratory sensitizers. Skin Sensitization: Components are not classified as skin sensitizers. Germ Cell Mutagenicity: Components are not classified as mutagens. **Carcinogenicity:** Components are not classified as carcinogens. Reproductive Toxicity: Components are not classified as reproductive toxins. Specific Target Organ Toxicity: No data available **Section 12 Ecological Information** Ecotoxicity: No data available. Avoid release to the environment. Persistence and Degradability: No data available. Bioaccumulative Potential: No data available. Mobility in Soil: No data available. **Section 13 Disposal Considerations** Dispose according to local, state, and federal regulations. Do not dump in drains or sewers. **Section 14 Transport Information DOT/IMDG/IATA:** Not regulated for transport **Section 15 Regulatory Information U.S. Federal Regulations CERCLA 103 Reportable Quantity:** This product is not subject to reporting under CERCLA. Some states have more stringent reporting requirements. SARA Title III. Section 311/312: See Section 2 Section 313 Toxic Chemicals: This product does not contain chemicals subject to Section 313 reporting requirements. Section 302 Extremely Hazardous Substances (TPQ): None EPA Toxic Substances Control Act (TSCA) Status: All components in this product are listed on TSCA. **U.S. State Regulations** California Proposition 65: This product does not contain chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov. REACH Annex XIV List of substances subject to authorization, substances of very high concern: None of the components are listed.



# Freeman 2450 Hardener

### Section 16 Other Information

### Training Advice

All personnel using/handling this product should be trained in proper chemical handling and the need for and use of engineering controls and protective equipment.

### **Recommended Uses and Restrictions**

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### Disclaimer

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Initial release date: October 15, 2021 Previous revision date: October 15, 2021 Current revision date: February 25, 2025