

Material Safety Data Sheet

Freeman 1066 Hardener Red

Date of Preparation: March 19, 2009

Revision:

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: Freeman 1066 Hardener Red

Chemical Formula: Amine Based Polyol

CAS Number: N/A

Other Designations: N/A

Intended Use or Product Type: Amine based polyol

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

HMSIS	
H	2
F	1
R	0
PPE†	
†Sec. 8	

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

CAUTION!

May be harmful if absorbed through the skin or if swallowed
 May cause target organ damage (animal data)
 Possible animal carcinogen

Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	%
* Dioctyl adipate	103-23-1	15-40
* Benzenamine, 4,4'-Methylenebis [2-Ethyl-	19900-65-3	30-60
* Diisodecyl phthalate	68515-49-1	1-5
* Formaldehyde, Polymer with 2-Ethylbenzeneamine	69178-41-2	5-10
* = OSHA Hazardous Ingredient		

Ingredient	OSHA		ACGIH		MFR.
	PEL	STEL	TWA	STEL	
Dioctyl adipate	not estab.	not estab.	not estab.	not estab.	not estab.
Benzenamine, 4,4'-Methylenebis [2-Ethyl	not estab.	not estab.	not estab.	not estab.	TWA 0.08mg/m ³
Diisodecyl phthalate	not estab.	not estab.	not estab.	not estab.	not estab.
Formaldehyde, Polymer with 2-Ethylbenzeneamine	not estab.	not estab.	not estab.	not estab.	not estab.

Section 3 - Physical and Chemical Properties

Physical State: Liquid

Color: Red

Viscosity 100-200 cps

Vapor Pressure: Not determined

Vapor Density (Air=1): Not determined

Specific Gravity (H₂O=1, at 4 °C): 1.01

pH: Not determined

Water Solubility: Slight

Boiling Point: Not determined

Evaporation Rate: Not determined

VOC: 0

Percent Volatile: Negligible

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.



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.

Polymerization: Hazardous polymerization will not occur.

Section 6 - Health Hazard Information

Potential Health Effects

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

Medical Conditions Aggravated by Exposure: Skin, eye and pulmonary conditions.

Overexposure Effects: Causes irritation if inhaled and can cause skin irritation, eye irritation, and allergic skin reaction. May be harmful if swallowed. May have effect on the liver.

Chronic: Overexposure may have effects on liver

Carcinogenicity: Contains DeMDA which is a possible animal carcinogen.

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 use. 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.

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: N/A

Toxicological Information:

Acute Oral Effects (LD50): Benzenamine, 4,4'-Methylenebis [2-Ethyl- = 742 mg/kg (rat)

Formaldehyde, polymer with 2-ethylbenzeneamine = 1000 mg/kg (rat)

Acute Inhalation Exposure Effects: Respiratory irritant.

Sensitization: Possible in susceptible individuals.

Skin Irritation: Irritant.

Eye irritation: Irritant.

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 Hazardous Communication Standard 29 CFR 1910,1200. This product is considered to be a hazardous chemical under that standard.

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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 does not contain any chemicals for routine annual toxic chemical release reporting under Section 313 (40CFR 372).

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.

Diocetyl adipate (CAS Number: 103-23-1) is on Pennsylvania and New Jersey 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 cartridge respirator when vapor/mist 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: Causes irritation if inhaled and can cause skin irritation, eye irritation, and allergic skin reaction. May be harmful if swallowed. Avoid breathing vapor or mist. Avoid contact with eyes, skin, and clothing. Avoid tasting or swallowing. Keep container closed when not in use. Use with adequate ventilation. Wash thoroughly after handling. Notice! Overexposure may have effects on liver.

DOT Transportation Data (49 CFR 172.101):

Shipping Name:

Resin Compounds, 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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