

Material Safety Data Sheet

Freeman 1060 Hardener Red

Date of Preparation: March 19, 2009

Revision:

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: Freeman 1060 Hardener Red

Chemical Family: Amine

CAS Number: N/A

Other Designations: N/A

Intended Use or Product Type: Polyurethane hardener

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

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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	%
*Benzenamine, 4,4'-Methylenebis [2-Ethyl-	19900-65-3	30-60
Dibutyl Phthalate	84-74-2	30-60

* = OSHA Hazardous Ingredient

Ingredient	OSHA		ACGIH		MFR	Vapor Pressure
	TWA	STEL	TWA	STEL	TWA	
Benzenamine, 4,4'-Methylenebis [2-Ethyl-	none estab.	none estab.	none estab.	none estab.	0.08 mg/m ³	none estab.
Dibutyl Phthalate	5 mg/m ³	none estab.	5 mg/m ³	none estab.	none estab.	.00001 mm Hg @ 77 °F

Section 3 - Physical and Chemical Properties

Physical State: Liquid

Appearance and Odor: Red liquid, faint odor.

Viscosity: 100-200 cps

Vapor Pressure: Not determined

Vapor Density (Air=1): Not determined

Specific Gravity (H₂O=1, at 4 °C): 1.06

pH: Not determined

Water Solubility: Slight

Boiling Point: Not determined

VOC: 0 g/L

% Volatile: Negligible

Evaporation Rate: Not determined

Section 4 - Fire-Fighting Measures

Flash Point: >200° F (>93° C)

Flash Point Method: Estimated

LEL: Not established

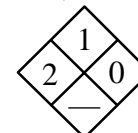
UEL: Not established

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

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 vapors.

Overexposure Effects: Causes eye, skin, and respiratory irritations. May cause allergic skin reaction.

Medical Conditions Aggravated by Long-Term 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.

Carcinogenicity: Contains DeMDA which is a possible animal carcinogen.

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 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:

Sensitization: Possible in susceptible individuals.

Skin Irritation: Irritant.

Eye Irritation: Irritant.

Chronic Exposure Effects: For Benzenamine, 4,4'-methylenebis(2-ethyl-

There is experimental evidence that analogous substances have caused tumors in rodents. Analogous substances have caused damage to liver and thyroid in test animals.

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

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.

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 contains a toxic chemical(s) for routine annual toxic chemical release reporting under Section 313 (40 CFR 372). This material must be included in all MSDS's copied or distributed for this material.

Revision:**Freeman 1060 Hardener Red**

Common Name: Dibutyl Phthalate
 Percent in Composition: 30-60 % by weight

TSCA Section 8b- Inventory Status: All chemical components of this product are in compliance with TSCA Inventory requirements.

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

State Regulations:

California Proposition 65: This product contains dibutyl phthalate which is on the list as a reproductive hazard.

State Lists: Dibutyl phthalate (CAS # 84-74-2) is on the following state Right to Know Lists: Pennsylvania, New Jersey, Massachusetts

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: Warning!

Precautions: Causes eye, skin, and respiratory irritations. May cause allergic skin reaction. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Avoid prolonged or repeated contact with skin. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling. Notice! Overexposure may have effects on liver.

Other Handling Information: Nuisance dust may be generated when sanding or sawing cured material.

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****Non-bulk Packaging:**

Non-Bulk

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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