

Material Safety Data Sheet

Freeman 601 Hardener

Date of Preparation: January 3, 2007

Revision:

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: Freeman 601 Hardener

Chemical Family: Amine

CAS Number: N/A

Other Designations: N/A

Intended Use or Product Type: Amine 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 800-424-9300.

HMIS

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PPE†

†Sec. 8

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Corrosive – Causes skin and eye burns. May cause allergic skin and respiratory reactions.

Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	%
* Diethylenetriamine	111-40-0	≤ 50
* Bisphenol A	80-05-7	45-55

* = OSHA Hazardous Ingredient

Ingredient	OSHA		ACGIH		MFR	Vapor Pressure
	PEL	STEL	TWA	STEL	TWA	
Diethylenetriamine	none estab	none estab	1 ppm	none estab	none estab	0.08 mm Hg @ 68°F
Bisphenol A	none estab	none estab	none estab	none estab	5 mg/m ³	N/A

Section 3 - Physical and Chemical Properties

Physical State: Liquid

Appearance and Odor: Clear amber liquid, amine odor

Vapor Pressure: <0.1 @ 20° C (68°F)

Vapor Density (Air=1): >1

Specific Gravity (H₂O=1, at 4 °C): 1.02

pH: Not Determined

Water Solubility: Slight

Boiling Point: >404°F (>207°C)

Percent Volatile: Negligible

VOC: Not Determined

Evaporation Rate (Butyl Acetate = 1): < 1

Section 4 - Fire-Fighting Measures

Flash Point: >200 °F (>93 °C)

Flash Point Method: SETA

LEL: Not established

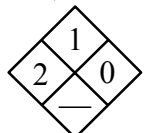
UEL: Not established

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.

Acute Exposure: Corrosive. Causes skin and eye burns.

Overexposure Effects: Corrosive – causes skin and eye burns. May cause allergic skin and respiratory 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.

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.

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.

Toxicological Information:

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

Skin Irritation: Corrosive. Causes burns.

Eye Irritation: Corrosive. Causes burns.

Ecological Information: N/A

Regulatory Information:

US Federal Regulations:

OSHA: This 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.

RCRA Status: Not a hazardous waste under RCRA (40 CFR 261) but handle with due care due to corrosive effect on skin and eyes.

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.

Phenol, 4,4'-(1-methylethylidene) bis-	(Bisphenol A)	49.99%	CAS# 80-05-7
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TSCA Section 8(b) - Inventory Status: All chemical components of this product are in compliance with TSCA Inventory requirements.

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

Diethylenetriamine (CAS # 111-40-0) is on the New Jersey and Pennsylvania Right to Know lists.

Bisphenol A (CAS # 80-05-7) 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 skin and eye burns. Can cause allergic skin and respiratory reactions. Do not get in eyes, on skin, or on clothing. Avoid breathing vapor or mists. Keep container closed when not in use. Use with adequate ventilation. Wash thoroughly after handling.

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

DOT Transportation Data (49 CFR 172.101):

Shipping Name:

Diethylenetriamine Mixture

Shipping Symbols:

Hazard Class: 8

ID No.: UN 2079

Packing Group: PG II

Label: Corrosive

Special Provisions (172.102):

Packaging Authorizations

a) Exceptions:

b) Non-bulk Packaging: Non-Bulk

c) Bulk Packaging:

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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