

# Material Safety Data Sheet

## Freeman 1050 Hardener

Date of Preparation: January 22, 2007

Revision:

### Section 1 - Chemical Product and Company Identification

**Product/Chemical Name:** Freeman 1050 Hardener

**Chemical Family:** 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.

**HMIS**

**H** 2

**F** 1

**R** 0

**PPE†**

†Sec. 8

#### ☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Causes irritation if inhaled and can cause skin irritation, eye irritation, and allergic skin reaction.

### Section 2 - Composition / Information on Ingredients

Chemical Identity	CAS No.
Benzenamine, 4,4'-methylenebis[2-ethyl-	19900-65-3
Butyl benzyl phthalate	85-68-7

Ingredient	OSHA		ACGIH		MFR
	TWA	STEL	TWA	STEL	TWA
Benzenamine, 4,4'-methylenebis[2-ethyl-	none estab	none estab	none estab	none estab	0.08 mg/m3
Butyl benzyl phthalate	none estab	none estab	none estab	none estab	none estab

### Section 3 - Physical and Chemical Properties

**Physical State / Color:** Liquid, Clear, Light Amber/Pink

**Viscosity:** 100-300 cps

**Vapor Pressure:** Not determined

**Vapor Density (Air=1):** Not determined

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

**pH:** Not determined

**Water Solubility:** Slight

**Boiling Point:** Not determined

**% Volatile:** Negligible

**Evaporation Rate:** Not determined

**VOC:** 0

### Section 4 - Fire-Fighting Measures

**Flash Point:** >200 °F (>93 °C)

**Flash Point Method:** Estimated

**LEL:** Not established

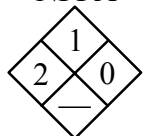
**UEL:** Not established

**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.

**Polymerization:** Hazardous polymerization will not occur.

**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:** Causes irritation if inhaled and can cause skin irritation, eye irritation, and allergic skin reaction.

**Chronic:** Overexposure may have effects on liver.

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

### Emergency and First Aid Procedures

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

**Eye Contact:** Immediately flush 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.

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

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) export notification.

#### State Regulations:

California Proposition 65: This product does not contain any chemicals currently on the California list of Known Carcinogen and Reproductive Toxins.

Butyl benzyl phthalate CAS Number: 85-68-7 is on New Jersey, Pennsylvania and Massachusetts 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 exposure is likely.

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

**Skin Protection:** Wear impermeable gloves.

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

**Revision:**

**Freeman 1050 Hardener**

**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:** Causes irritation if inhaled and can cause skin irritation, eye irritation, and allergic skin reaction. 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. 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.

**Packaging Authorizations**

**Non-bulk Packaging:**

Non-Bulk

**Quantity Limitations**

**a) Passenger, Aircraft, or Railcar:**

**b) Cargo Aircraft Only:**

**Shipping Symbols:**

**Hazard Class:** Not Regulated

**ID No.:**

**Packing Group:**

**Label:**

**Special Provisions (172.102):**

**Vessel Stowage Requirements**

**a) Vessel Stowage:**

**b) Other:**

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