

# Material Safety Data Sheet

## Freeman 1060 Hardener Black

Date of Preparation: March 19, 2009

Revision:

### Section 1 - Chemical Product and Company Identification

**Product/Chemical Name:** Freeman 1060 Hardener Black

**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 Number 800-424-9300

**HMIS**

**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	%
*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/m3	none estab.
Dibutyl Phthalate	5 mg/m3	none estab.	5 mg/m3	none estab.	none estab.	1 mm Hg @ 297 °F

### Section 3 - Physical and Chemical Properties

**Physical State:** Liquid

**Appearance and Color:** Thin black liquid

**Viscosity:** 100-200 cps

**Vapor Pressure:** Not determined

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

**VOC:** 0.6148 g/L

**Specific Gravity (H<sub>2</sub>O=1, at 4 °C):** 1.06

**Water Solubility:** Slight

**Boiling Point:** Not determined

**% Volatile:** Negligible

**Evaporation Rate:** Not determined

**pH:** Not determined

### Section 4 - Fire-Fighting Measures

**Flash Point:** >198° F (>92° C)

**Flash Point Method:** Estimated

**LEL:** Not established

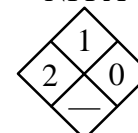
**UEL:** Not established

**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.

**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.

**Overexposure Effects:** Causes eye, skin, and respiratory irritations. May cause allergic skin reaction. May have an effect on the liver.

**Medical Conditions Aggravated by 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.

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**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**

**Spill /Leak Procedures:** Remove spillage by absorbing in absorbent material.

**Disposal:** Consult qualified local or corporate personnel for method that will comply with local, state and federal health and environmental regulations

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**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).

**Revision:****Freeman 1060 Hardener Black**

**SARA Title III: Section 313 Toxic Chemical List (TCL):** This product contains the following 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.

: Dibutyl Phthalate (CAS # 84-72-2) Percent in Composition: 30-60% by weight

**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:** The following is required composition information. May contain trace amounts of a hexavalent chromium compound. 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, preferably either neoprene or nitrile

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

#### DOT Transportation Data (49 CFR 172.101):

**Shipping Name:**

Resin Compounds, N.O.S

**Packaging Authorizations****Non-bulk Packaging:**

Non-Bulk

**Quantity Limitations**

a) Passenger, Aircraft, or Railcar:

b) Cargo Aircraft Only:

**Technical Shipping Name:****Hazard Class:****ID No.:****Packing Group:****Label:****Special Provisions (172.102):****Vessel Stowage Requirements**

a) Vessel Stowage:

b) Other:

**Prepared By:****Revision Notes:**

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