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Effective Date: 8/2/05

Material Safety Data Sheet

MSDS No: 6013

**1. PRODUCT IDENTIFICATION**

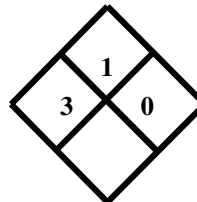
Trade Name: Ren 1520

Chemical Family: Amine

**Synonyms:**

RP 1520 Hardener

Intended Use or Product Type: High heat hardener



NFPA RATING

Health:	3
Flammability:	1
Reactivity:	0
Personal Protection:	

HMIS RATING

**2. COMPOSITION / INFORMATION ON INGREDIENTS**

O S H A	CAS No.	CHEMICAL IDENTITY	EXPOSURE LIMITS				CARCINOGEN STATUS			
			ACGIH		OSHA		MFR.	IARC	NTP	OSHA
			TWA	STEL	PEL	STEL				
*	1477-55-0	1,3-Benzenedimethanamine Common Name: m-Xylenediamine	NE	0.1 mg/m3	NE	NE	NE	NR	NR	NR
*	68479-98-1	Benzenediamine, ar,ar-diethyl-ar-methyl-Diethyltoluenediamine Common Name:	NE	NE	NE	NE	NE	NR	NR	NR
*	63548	Polymer of Benzenediamine, AR,AR-Diethyl-AR-Methyl and Phenol, Polymer with Formaldehyde, Glycidyl Ether Amine adduct Common Name:	NE	NE	NE	NE	NE	NR	NR	NR

NE = Not Established NR = Not Reviewed \* = OSHA Hazardous Ingredient

**3. HAZARDS IDENTIFICATION**

**Emergency Overview:** Corrosive - Causes skin and eye burns. Harmful if swallowed or if absorbed through skin. May cause allergic skin and respiratory reactions.

**Primary Route(s) of Entry:** Dermal; heated product may produce inhalable vapors.

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**Acute Exposure:** Corrosive. Causes skin and eye burns.

#### **4. FIRST AID MEASURES**

**Ingestion:** If conscious, give 2 - 4 glasses of water to drink. Do not induce vomiting. Call a physician.

**Skin:** Immediately wash with soap and water. Remove contaminated clothing and launder before reuse. Destroy contaminated shoes.

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

**Eyes:** Immediately flush eyes with water for at least 15 minutes. Call a physician.

**Overexposure Effects:** Corrosive - causes skin and eye burns. Harmful if swallowed or if absorbed through skin. May cause allergic skin and respiratory reactions. Absorption through skin or ingestion may cause nausea, vomiting or other illness. Inhalation of vapors may cause asthma-like symptoms such as wheezing, coughing and shortness of breath.

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

**Additional Information:** Referral to a physician is recommended if there is any question about the seriousness of any injury.

#### **5. FIRE FIGHTING MEASURES**

<b>Flash Point:</b>	> 250°F (> 121 °C)
<b>Flash Point Method Used:</b>	PMCC
<b>Flammable Limits in Air (Lower - % by volume):</b>	Not established
<b>Flammable Limits in Air (Upper - % by volume):</b>	Not established

**Fire Fighting Extinguishing Media:** Carbon dioxide, dry chemical, foam, water.

**Fire Fighting Equipment:** Use self-contained breathing apparatus.

**Fire and Explosion Hazards:** Decomposition and combustion products may be toxic.

#### **6. ACCIDENTAL RELEASE MEASURES**

**Accidental Release Measures:** Remove spillage by absorbing in absorbent material. Avoid contact.

#### **7. HANDLING AND STORAGE**

**Signal Word:** Danger!

**Precautions:** Corrosive. Causes skin and eye burns. Harmful if swallowed or if absorbed through skin. May cause allergic skin and respiratory reactions. Do not get in eyes, on skin, on clothing. Avoid breathing vapor or mist. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling.

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

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Skin Protection:** Impermeable gloves and protective clothing.

**Respiratory Protection:** Use NIOSH approved organic vapor cartridge respirator when vapor/mist exposure is likely.

**Eye Protection:** Full face shield.

**Engineering Controls:** General mechanical and local exhaust in accordance with ACGIH recommendations.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Clear
<b>Color:</b>	Amber
<b>Physical State:</b>	Liquid
<b>Solubility in Water:</b>	Slight
<b>Vapor Pressure:</b>	< 0.1 mm Hg at 25°C (77 °F)
<b>Specific Gravity:</b>	1.05 (water = 1)
<b>Boiling Point:</b>	590°F (310 °C)
<b>Evaporation Rate:</b>	Not Determined
<b>Vapor Density:</b>	Not Determined
<b>pH:</b>	Not Determined

**Percent Volatile:** Less than 1%.

## 10. STABILITY AND REACTIVITY

**Conditions to Avoid:** Excessive heat for prolonged periods of time.

**Stability:** Stable.

**Incompatibility:** Strong oxidizing agents, acids, metal-organic compounds.

**Hazardous Decomposition Products:** Combustion may form toxic materials, such as carbon dioxide, carbon monoxide.

**Hazardous Polymerization:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

**Acute Oral Effects (LD50):** Component(s) are toxic, 50 - 500 mg/kg (rat).

**Acute Dermal Toxicity (LD50):** Component(s) are toxic, 200 - 1000 mg/kg (rabbit).

**Sensitization:** May cause allergic skin reaction and respiratory sensitivity in some people.

**Skin Irritation:** Corrosive. Causes burns.

**Eye Irritation:** Corrosive. Causes burns.

## 12. ECOLOGICAL INFORMATION

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**13. DISPOSAL CONSIDERATIONS**

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

**14. TRANSPORT INFORMATION****DOT: Non-Bulk**

<b>Proper Shipping Name:</b>	Polyamines, liquid, corrosive, N.O.S.
<b>Technical Shipping Name (If n.o.s.):</b>	Metaxylenediamine
<b>Hazard Class:</b>	8
<b>ID Number:</b>	UN 2735
<b>Packing Group:</b>	PG II
<b>Label:</b>	Corrosive

**15. 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) but handle with care due to corrosive effect on skin and eyes.

**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:** 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.

**Pennsylvania Right-to-Know:** The following is required composition information:

Chemical Name: Benzenediamine, ar,ar-diethyl-ar-methyl-  
Common Name: Diethyltoluenediamine  
CAS Number: 68479-98-1  
Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Polymer of Benzenediamine, AR,AR-Diethyl-AR-Methyl and Phenol, Polymer with Formaldehyde, Glycidyl Ether

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Common Name: Amine adduct  
CAS Number: 63548  
Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: 1,3-Benzenedimethanamine  
Common Name: m-Xylenediamine  
CAS Number: 1477-55-0  
Comment: Hazardous Substance

## **16. OTHER INFORMATION**

**MSDS No:** 6013  
**Approved By:** Dianne Blessing  
**Title:** EHS Specialist

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