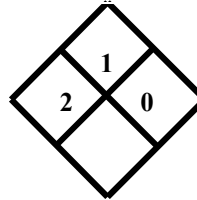


**DISTRIBUTED BY FREEMAN MFG & SUPPLY CO. 800-321-8511**

24-Hour Emergency Phone: 1-888-354-3323

**Effective Date:** 11/9/04**Material Safety Data Sheet**

MSDS No: 6135

**1. PRODUCT IDENTIFICATION****Trade Name:** RenPIM 6450 Polyol**Chemical Family:** Polyol

NFPA RATING

<b>Health:</b>	<b>2</b>
<b>Flammability:</b>	<b>1</b>
<b>Reactivity:</b>	<b>0</b>
<b>Personal Protection:</b>	

HMIS RATING

**Synonyms:**

RP 6450 Hardener  
TDT 178-79-1 Hardener

**Intended Use or Product Type:**

Polyurethane hardener

**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				
*	102-60-3	2-Propanol, 1,1',1'',1'''-(1,2-ethanediyldinitrilo)tetrakis- Amine based tetrol	NE	NE	NE	NE	NE	NR	NR	NR
*	105-59-9	Ethanol, 2,2'-(methylimino)bis-N-methyldiethanolamine	NE	NE	NE	NE	NE	NR	NR	NR

\* = OSHA Hazardous Ingredient

**3. HAZARDS IDENTIFICATION**

**Emergency Overview:** Harmful if swallowed. Causes skin and eye irritation.

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

**4. FIRST AID MEASURES**

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

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**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:** Harmful if swallowed. Causes skin and eye irritation.

**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.

## **5. FIRE FIGHTING MEASURES**

<b>Flash Point:</b>	> 260°F (> 127 °C)
<b>Flash Point Method Used:</b>	Estimated
<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.

## **7. HANDLING AND STORAGE**

**Signal Word:** Warning!

**Precautions:** Can cause skin and eye irritation. Can be harmful if swallowed. Avoid contact with eyes, skin, and clothing. Avoid tasting or swallowing. Wash thoroughly after handling.

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

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**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.

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

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Cloudy with Molecular Sieves Dispersed
<b>Physical State:</b>	Liquid
<b>Solubility in Water:</b>	Miscible
<b>Specific Gravity:</b>	1.032 (water = 1)
<b>Boiling Point:</b>	Not Determined
<b>Evaporation Rate:</b>	Not Determined
<b>Bulk Density:</b>	Not Determined
<b>pH:</b>	Not Determined

**Percent Volatile:** Negligible.**10. STABILITY AND REACTIVITY****Conditions to Avoid:** Excessive heat for prolonged periods of time.**Stability:** Stable.**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.**11. TOXICOLOGICAL INFORMATION****Acute Oral Effects (LD50):** Component(s) are toxic, 50 - 500 mg/kg (rat).**Skin Irritation:** Irritant.**Eye Irritation:** Irritant.**12. ECOLOGICAL INFORMATION****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****Proper Shipping Name:** Resin compounds, N.O.I.

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**Department of Transportation:** Not regulated as a hazardous material by the U.S. Dept. of Transportation (DOT) 49 CFR 172.101 hazardous materials table.

## **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).

**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: 2-Propanol, 1,1',1",1'''-(1,2-ethanediyldinitrilo)tetrakis-

Common Name: Amine based tetrol

CAS Number: 102-60-3

Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Oxirane, Methyl-, Polymer with Oxirane, Ether with 2-Ethyl-2-(Hydroxymethyl)-1,3-Propanediol (3:1)

Common Name: Polyether polyol

CAS Number: 52624-57-4

Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol

Common Name: Polyether triol

CAS Number: 9082-00-2

Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Poly(Oxy-1,4-Butanediyl), alpha-hydro-omega-hydroxy-

Common Name: PTMEG

CAS Number: 25190-06-1

Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Zeolites KA

Common Name: Molecular sieves

CAS Number: 68989-21-9

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Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Castor Oil

Common Name: Castor oil

CAS Number: 8001-79-4

Comment: Not on Pennsylvania Hazardous Substance List

## **16. OTHER INFORMATION**

**MSDS No:** 6135  
**Approved By:** Dianne Blessing  
**Title:** EH&S Specialist

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