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Effective Date: 4/17/06

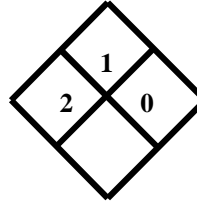
Material Safety Data Sheet

MSDS No: 10516

**1. PRODUCT IDENTIFICATION**

Trade Name: Ren 6434

Chemical Family: Polyol



NFPA RATING

Health:	2
Flammability:	1
Reactivity:	0
Personal Protection:	

HMIS RATING

**Synonyms:**

22-624 Hardener  
RP 6434 Hardener

Intended Use or Product Type: Polyurethane

**2. COMPOSITION / INFORMATION ON INGREDIENTS**

O S H A	CAS No.	CHEMICAL IDENTITY	EXPOSURE LIMITS				MFR.	CARCINOGEN STATUS		
			ACGIH		OSHA			IARC	NTP	OSHA
			TWA	STEL	PEL	STEL				
*	107-21-1	1,2-Ethanediol Common Name: Ethylene glycol	NE	100 mg/m <sup>3</sup>	NE	NE	NE	NR	NR	NR
*	26570-73-0	Hexanedioic acid, polymer with 1,4-Butanediol and 1,2-Ethanediol Common Name: Polyester polyol	NE	NE	NE	NE	NE	NR	NR	NR
*	85-68-7	1,2- Benzenedicarboxylic acid, butyl phenylmethyl ester Common Name: Butyl benzyl phthalate	NE	NE	NE	NE	NE	NR	NR	NR

\* = OSHA Hazardous Ingredient

**3. HAZARDS IDENTIFICATION**

**Emergency Overview:** Causes skin and eye irritation.

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

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

**Ingestion:** Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

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

**Inhalation:** Remove to fresh air. Seek immediate medical attention.

**Eyes:** Immediately flush eyes with water for at least 15 minutes. Seek immediate medical attention.

**Overexposure Effects:** 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**

**Flash Point:** > 200°F (> 93 °C)

**Flash Point Method Used:** Estimated

**Flammable Limits in Air (Lower - % by volume):** Not established

**Flammable Limits in Air (Upper - % by volume):** 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. Avoid contact with eyes, skin, and clothing. 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.

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**Eye Protection:** Wear splash-proof chemical goggles.**Engineering Controls:** General mechanical and local exhaust in accordance with ACGIH recommendations.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Slightly Hazy
<b>Physical State:</b>	Liquid
<b>Solubility in Water:</b>	Slight
<b>Vapor Pressure:</b>	Not Determined
<b>Specific Gravity:</b>	1.149 (water = 1)
<b>Boiling Point:</b>	Not Determined
<b>Evaporation Rate:</b>	Not Determined
<b>Vapor Density:</b>	Not Determined
<b>VOC:</b>	0 g/L
<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.**Hazardous Decomposition Products:** Combustion may form toxic materials, such as carbon dioxide, carbon monoxide.**Hazardous Polymerization:** Will not occur.

## **11. TOXICOLOGICAL INFORMATION**

**Skin Irritation:** Irritant.**Eye Irritation:** Irritant.**Teratogenicity:** Contains Ethylene glycol. An inhalation teratology study has confirmed that ethylene glycol is teratogenic in CD-1 mice. Fetotoxicity was present at 1,000 and 2,500 mg/m as evidenced by reduced body weights and reduced ossification at numerous skeletal districts. Teratogenicity was demonstrated at 1,000 and 2,500 mg/m<sup>3</sup> as evidenced by a significantly increased incidence of malformations.**Sub-Chronic:** Butyl benzyl phthalate (BBP) produced liver necrosis and pancreatic lesions at a dose of approximately 675 mg/kg/day and 275 mg/kg/day, respectively, during a 90-day oral administration study with rats. The no observable effect levels (NOEL) were approximately 275 and 110 mg/kg/day, respectively.

## **12. ECOLOGICAL INFORMATION**

## **13. DISPOSAL CONSIDERATIONS**

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

**Additional Information:** Disposal of Cured Product: This product when cured may contain very small quantities of organic mercury compounds. It is the responsibility of the user to determine if the selected disposal method complies with applicable regulations.

#### **14. TRANSPORT INFORMATION**

**DOT: Non-Bulk**

**Proper Shipping Name:** Resin compounds, N.O.I.

**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):** D 009 contains mercury.

**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.

Chemical Name: 1,2-Ethanediol

Common Name: Ethylene glycol

Percent in Composition: 1.5805 % by wt

Comment:

**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:** The following is required composition information. This product contains the following chemical(s) which are currently listed on the California list of Known Carcinogens and Reproductive Toxins:

Chemical Name: Mercury catalyst

CAS Number: Held confidential by our supplier

Percent in Composition: 0.35 % by wt

Comment: Warning! This chemical is known to the State of California to cause birth defects or other reproductive harm.

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Chemical Name: 2-Propenoic Acid, Ethyl Ester

Common Name: Ethyl acrylate

CAS Number: 140-88-5

Percent in Composition: 0 % by wt

Comment: Warning! This chemical is known to the State of California to cause cancer.

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

Chemical Name: Hexanedioic acid, polymer with 1,4-Butanediol and 1,2 -Ethanediol

Common Name: Polyester polyol

CAS Number: 26570-73-0

Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: 1,2- Benzenedicarboxylic acid, butyl phenylmethyl ester

Common Name: Butyl benzyl phthalate

CAS Number: 85-68-7

Comment: Environmental Hazardous Substance

Chemical Name: 1,2-Ethanediol

Common Name: Ethylene glycol

CAS Number: 107-21-1

Comment: Environmental Hazardous Substance

**16. OTHER INFORMATION**

<b>MSDS No:</b>	10516
<b>Approved By:</b>	Dianne Blessing
<b>Title:</b>	EH&S Specialist

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