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Effective Date: 12/2/04

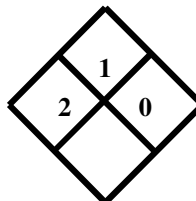
Material Safety Data Sheet

MSDS No: 34633

**1. PRODUCT IDENTIFICATION**

Trade Name: Ren 6492

Chemical Family: Polyol



NFPA RATING

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

HMIS RATING

Intended Use or Product Type: Polyurethane

**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
*	9051-49-4	Poly(Oxy(Methyl-1,2-Ethanediy)), .alpha.-Hydro-.omega.-Hydroxy, Ether with 2,2-Bis(Hydroxymethyl)-1,3-Propanediol (4:1) Polyether polyol	NE	NE	NE	NE	NE	NR	NR	NR
	115-96-8	Ethanol, 2-Chloro-, Phosphate (3:1) Chlorinated phosphate ester	NE	NE	NE	NE	NE	NR	NR	NR

\* = OSHA Hazardous Ingredient

**3. HAZARDS IDENTIFICATION**

**Emergency Overview:** Causes irritation if inhaled and can cause skin irritation, eye irritation, and allergic skin reaction. Can be harmful if swallowed.

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

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#### 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:** Causes irritation if inhaled and can cause skin irritation, eye irritation, and allergic skin reaction. Can be harmful if swallowed.

**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

**Flash Point:** > 230°F (> 110 °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:** Causes irritation if inhaled and can cause skin irritation, eye irritation, and allergic skin reaction. Can be harmful if swallowed. Avoid breathing vapor or mist. Avoid contact with eyes, skin, and clothing. Avoid tasting or swallowing. Keep container closed when not in use. Use with adequate ventilation. 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.

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**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.

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

<b>Appearance:</b>	Cloudy
<b>Color:</b>	Off White
<b>Physical State:</b>	Liquid
<b>Solubility in Water:</b>	Soluble
<b>Vapor Pressure:</b>	Not Determined
<b>Specific Gravity:</b>	1.19 (water = 1)
<b>Boiling Point:</b>	Not Determined
<b>Evaporation Rate:</b>	Not Determined
<b>Vapor 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 slightly toxic, 500 - 5000 mg/kg (rat).  
Ethanol, 2-chloro-, phosphate (3:1)= 550 mg/kg (rat)

**Acute Inhalation Exposure Effects:** Respiratory irritant.

**Sensitization:** Possible in susceptible individuals.

**Skin Irritation:** Irritant.

**Eye Irritation:** Irritant.

## **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.

#### **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):** Not a hazardous waste under RCRA (40 CFR 261).

**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: Aluminum Oxide (Al<sub>2</sub>O<sub>3</sub>)

Common Name: Alumina

Percent in Composition: 1.3714 % 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: Ethanol, 2-Chloro-, Phosphate (3:1)

Common Name: Chlorinated phosphate ester

CAS Number: 115-96-8

Percent in Composition: 19.2647 % by wt

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

Chemical Name: Ethane, 1,1'-Oxybis(2-Chloro-

CAS Number: 111-44-4

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Percent in Composition: 0.0193 % by wt

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

Chemical Name: Ethane, 1,2-Dichloro-

Common Name: 1,2-Dichloroethane

CAS Number: 107-06-2

Percent in Composition: 0.002 % by wt

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

Chemical Name: 1,4-Dioxane

Common Name: Diethylene ether

CAS Number: 123-91-1

Percent in Composition: 0.0019 % by wt

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

Chemical Name: Oxirane

Common Name: Ethylene oxide

CAS Number: 75-21-8

Percent in Composition: 0.0002 % by wt

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

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

Chemical Name: Poly(Oxy(Methyl-1,2-Ethanediy)), .alpha.-Hydro-.omega.-Hydroxy, Ether with 2,2-Bis(Hydroxymethyl)-1,3-Propanediol (4:1)

Common Name: Polyether polyol

CAS Number: 9051-49-4

Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Ethanol, 2-Chloro-, Phosphate (3:1)

Common Name: Chlorinated phosphate ester

CAS Number: 115-96-8

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: 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: Polyphosphoric Acids, Ammonium Salts

Common Name: Ammonium polyphosphate

CAS Number: 68333-79-9

Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Silica

Common Name: Fumed Silica

CAS Number: 7631-86-9

Comment: Hazardous Substance

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Chemical Name: Aluminum Oxide (Al<sub>2</sub>O<sub>3</sub>)  
Common Name: Alumina  
CAS Number: 1344-28-1  
Comment: Environmental Hazardous Substance

## **16. OTHER INFORMATION**

**MSDS No:** 34633  
**Approved By:** Dianne Blessing  
**Title:** EH&S Specialist

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