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Effective Date: 4/26/06

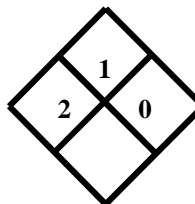
Material Safety Data Sheet

MSDS No: 6264

**1. PRODUCT IDENTIFICATION**

Trade Name: Ren 205-3

Chemical Family: Polyol



NFPA RATING

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

HMIS RATING

**Synonyms:**

TDT 205-3 Hardener

Intended Use or Product Type: Unfilled polyurethane casting system

**2. COMPOSITION / INFORMATION ON INGREDIENTS**

| O<br>S<br>H<br>A | CAS No.                    | CHEMICAL IDENTITY  | EXPOSURE LIMITS |      |      |      | CARCINOGEN STATUS |      |     |      |
|------------------|----------------------------|--|-----------------|------|------|------|-------------------|------|-----|------|
|                  |                            |  | ACGIH           |      | OSHA |      | MFR.              | IARC | NTP | OSHA |
|                  |                            |  | TWA             | STEL | PEL  | STEL |                   |      |     |      |
| *                | 25322-68-3<br>Common Name: | Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-Polyether polyol   | NE              | NE   | NE   | NE   | NE                | NR   | NR  | NR   |
| *                | 6846-50-0<br>Common Name:  | Propanoic Acid, 2-Methyl-, 2,2-Dimethyl-1-(1-Methylethyl)-1,3-Propanediyl Ester<br>Trimethyl pentanediol diisobutyrate                                 | NE              | NE   | NE   | NE   | NE                | NR   | NR  | NR   |
| *                | 8001-79-4<br>Common Name:  | Castor Oil<br>Castor oil   | NE              | NE   | NE   | NE   | NE                | NR   | NR  | NR   |
| *                | 25723-16-4<br>Common Name: | Poly[Oxy(Methyl-1,2-Ethanediyl)], alpha-Hydro-omega-Hydroxy-, Ether with 2-Ethyl-2-(Hydroxymethyl)-1,3-Propanediol<br>Trimethylol propane based polyol | NE              | NE   | NE   | NE   | NE                | NR   | NR  | NR   |
| *                | 68909-26-2<br>Common Name: | Poly(oxy(methyl-1,2-ethanediyl)), alpha-hydro-omega-hydroxy-, ether with bis(((2-hydroxyethyl)amino)methyl)phenol (3:1)<br>Aromatic amino polyol       | NE              | NE   | NE   | NE   | NE                | NR   | NR  | NR   |
| *                | Confidential               | Salt of Long Chain Polyamine and High Molecular Weight Acid Ester  | NE              | NE   | NE   | NE   | NE                | NR   | NR  | NR   |

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

### 3. HAZARDS IDENTIFICATION

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

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

### 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 irritation if inhaled and can cause skin irritation, eye irritation, and allergic skin reaction.

**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

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**Signal Word:** Warning!**Precautions:** Causes irritation if inhaled and can cause skin irritation, eye irritation, and allergic skin reaction. Avoid breathing vapor or mist. Avoid contact with eyes, skin, and clothing. 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.**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>Color:</b>               | Amber                   |
| <b>Physical State:</b>      | Liquid                  |
| <b>Solubility in Water:</b> | Slight                  |
| <b>Vapor Pressure:</b>      | Not Determined          |
| <b>Specific Gravity:</b>    | 1.09 - 1.12 (water = 1) |
| <b>Boiling Point:</b>       | 400°F (204 °C)          |
| <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 Inhalation Exposure Effects:** Respiratory irritant.**Sensitization:** Possible in susceptible individuals.

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**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.**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:** 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: Quartz (SiO<sub>2</sub>)

Common Name: Crystalline silica

CAS Number: 14808-60-7

Percent in Composition: 0.05 % by wt

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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 % by wt

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

Chemical Name: Benzene, methyl-

Common Name: Toluene

CAS Number: 108-88-3

Percent in Composition: 0 % by wt

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

Chemical Name: Oxirane

Common Name: Ethylene oxide

CAS Number: 75-21-8

Percent in Composition: 0 % by wt

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

Chemical Name: Acetaldehyde

Common Name: Acetaldehyde

CAS Number: 75-07-0

Percent in Composition: 0 % by wt

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

Chemical Name: Benzene

Common Name: Benzene

CAS Number: 71-43-2

Percent in Composition: 0 % by wt

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

Chemical Name: Formaldehyde

Common Name: Formaldehyde

CAS Number: 50-00-0

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: Poly(oxy(methyl-1,2-ethanediyl)), alpha-hydro-omega-hydroxy-, ether with bis(((2-hydroxyethyl)amino)methyl)phenol (3:1)

Common Name: Aromatic amino polyol

CAS Number: 68909-26-2

Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Propanoic Acid, 2-Methyl-, 2,2-Dimethyl-1-(1-Methylethyl)-1,3-Propanediyl Ester

Common Name: Trimethyl pentanediol diisobutyrate

CAS Number: 6846-50-0

Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Benzene, Methylbis(Phenylmethyl)-

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Common Name: Dibenzyltoluene  
CAS Number: 26898-17-9  
Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Poly[Oxy(Methyl-1,2-Ethanediy)], alpha-Hydro-omega-Hydroxy-, Ether with 2-Ethyl-2-(Hydroxymethyl)-1,3-Propanediol  
Common Name: Trimethylol propane based polyol  
CAS Number: 25723-16-4  
Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Poly(oxy-1,2-ethanediy), .alpha.-hydro-.omega.-hydroxy-  
Common Name: Polyether polyol  
CAS Number: 25322-68-3  
Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Talc  
Common Name: Talc  
CAS Number: 14807-96-6  
Comment: Hazardous Substance

Chemical Name: Zeolites KA  
Common Name: Molecular sieves  
CAS Number: 68989-21-9  
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:** 6264  
**Approved By:** Dianne Blessing  
**Title:** EH&S Specialist

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