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**Effective Date:** 11/17/06

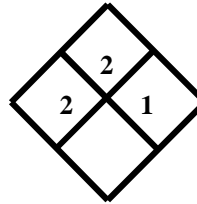
**Material Safety Data Sheet**

MSDS No: 6073

**1. PRODUCT IDENTIFICATION**

**Trade Name:** RenCast 3269-1

**Chemical Family:** Epoxy



NFPA RATING

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

HMIS RATING

**Synonyms:**  
 RP 3269-1 Resin

**Intended Use or Product Type:** Casting resin

**2. COMPOSITION / INFORMATION ON INGREDIENTS**

| O<br>S<br>H<br>A | CAS No.    | CHEMICAL IDENTITY  | EXPOSURE LIMITS |      |        |      | MFR.                    | CARCINOGEN STATUS |     |      |
|------------------|------------|--|-----------------|------|--------|------|-------------------------|-------------------|-----|------|
|                  |            |  | ACGIH           |      | OSHA   |      |                         | IARC              | NTP | OSHA |
|                  |            |  | TWA             | STEL | PEL    | STEL |                         |                   |     |      |
| *                | 2426-08-6  | Oxirane, (Butoxymethyl)-<br><br>Common Name: Butyl glycidyl ether  | 25 ppm          | NE   | 50 ppm | NE   | Table Z1A<br>TWA 25 ppm | NR                | NR  | NR   |
| *                | 25068-38-6 | Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane<br>Common Name: Bisphenol A diglycidyl ether polymer | NE              | NE   | NE     | NE   | NE                      | NR                | NR  | NR   |

\* = OSHA Hazardous Ingredient

**3. HAZARDS IDENTIFICATION**

**Emergency Overview:** Combustible. Causes skin and eye irritation. May cause allergic skin and respiratory reactions.

**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. May cause allergic skin and respiratory reactions.

**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:** 171°F ( 77 °C)

**Flash Point Method Used:** PMCC

**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:** Combustible. Keep away from heat and flame. Can cause skin irritation, eye irritation, allergic respiratory reaction, and allergic skin reaction. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated breathing of vapor or mist. 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>Color:</b>               | Grey                      |
| <b>Odor:</b>                | Slight Ethereal           |
| <b>Physical State:</b>      | Pourable Liquid           |
| <b>Solubility in Water:</b> | Negligible                |
| <b>Vapor Pressure:</b>      | 1.1 mm Hg at 25°C (77 °F) |
| <b>Specific Gravity:</b>    | 1.73 (water = 1)          |
| <b>Boiling Point:</b>       | > 200°F (> 93 °C)         |
| <b>Evaporation Rate:</b>    | Not Determined            |
| <b>Vapor Density:</b>       | Not Determined            |
| <b>VOC:</b>                 | 75.5664 g/L               |
| <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**

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

**Carcinogenicity:** Based on several dermal studies in mice, IARC had concluded in 1999 that diglycidyl ether of bisphenol A is not classifiable as a human carcinogen (Group 3) and has limited evidence of carcinogenicity in animals.

**Skin Irritation:** Irritant.

**Eye Irritation:** Irritant.

**Reproduction:** For diglycidyl ether of bisphenol A- There were no treatment-related histologic changes noted nor effects on reproductive performance in rats at any oral dose tested.

**Teratogenicity:** For diglycidyl ether of bisphenol A- No adverse effects on embryonic or fetal development was observed in rabbits after dermal exposure.

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**Mutagenicity:** For diglycidyl ether of bisphenol A- In vitro tests showed mutagenic effects which were not observed with in vivo tests.

**Sub-Chronic:** Diglycidyl ether of bisphenol A, applied to the skin of rats five times per week for approximately 13 weeks, caused no apparent systemic toxicity with the exception of decreased body weight and body weight gain.

## **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 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

Percent in Composition: 45 % 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.

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**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: 0.0797 % by wt

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

Chemical Name: Arsenic

CAS Number: 7440-38-2

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: Lead

CAS Number: 7439-92-1

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.

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

Chemical Name: Aluminum

CAS Number: 7429-90-5

Comment: Environmental Hazardous Substance

Chemical Name: Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane

Common Name: Bisphenol A diglycidyl ether polymer

CAS Number: 25068-38-6

Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Limestone

Common Name: Calcium carbonate

CAS Number: 1317-65-3

Comment: Hazardous Substance

Chemical Name: Oxirane, (Butoxymethyl)-

Common Name: Butyl glycidyl ether

CAS Number: 2426-08-6

Comment: Hazardous Substance

**16. OTHER INFORMATION****MSDS No:**

6073

**Approved By:**

Dianne Blessing

**Title:**

EH&amp;S Specialist

**Disclaimer:** The information and recommendations contained herein are based upon tests in controlled laboratory conditions, are believed to be correct, and are provided for the sole purpose of hazard communication as part of Huntsman's product safety

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