

P.O. Box 4980  
The Woodlands, TX 77387-4980

8 am to 5 pm Phone: (800) 257-5547  
24-Hour Emergency Phone: (800) 328-8501  
International Emergency Phone: (409) 727-0831  
Asia Pacific Emergency Phone: (65) 6336-6011

**Effective Date:** 6/6/08

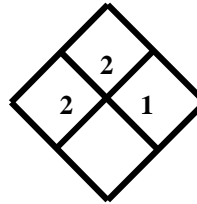
**Material Safety Data Sheet**

MSDS No: 6072

**1. PRODUCT IDENTIFICATION**

**Trade Name:** RenCast 3269

**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 Resin

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

**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				
*	1317-65-3	Limestone  Common Name: Calcium carbonate Concentration: 10.00 - 30.00 % by wt	10 mg/m3	NE	5 mg/m3	NE	NE	NR	NR	NR
*	14808-60-7	Quartz (SiO2)  Common Name: Crystalline silica Concentration: 0.10 - 0.20 % by wt	0.05 mg/m3	NE	0.1 mg/m3	NE	NE	Yes	Yes	NR
*	2426-08-6	Oxirane, (Butoxymethyl)-  Common Name: Butyl glycidyl ether Concentration: 1.00 - 5.00 % by wt	25 ppm	NE	50 ppm	NE	Table Z1A TWA 25 ppm	NR	NR	NR
*	25068-38-6	Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane Common Name: Bisphenol A diglycidyl ether polymer Concentration: 30.00 - 60.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
*	7429-90-5	Aluminum	2 mg/m3	NE	5 mg/m3	NE	NE	NR	NR	NR

Effective Date: 6/6/08

Concentration	30.00 - 60.00 % by wt								
---------------	-----------------------	--	--	--	--	--	--	--	--

\* = 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.

**Carcinogenicity (NTP, IARC, OSHA):** This product contains crystalline silica. Repeated inhalation of respirable free crystalline silica dust may cause delayed lung injury (silicosis) and cancer.

**Chronic:** Butyl Glycidyl Ether (BGE) may have effects on central nervous and reproductive systems.

**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.

Effective Date: 6/6/08

## 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.

**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>	80 g/L
<b>pH:</b>	Not Determined
<b>Coefficient of water/oil:</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.

Effective Date: 6/6/08

**Hazardous Polymerization:** Will not occur.**11. TOXICOLOGICAL INFORMATION****Sensitization:** May cause allergic skin reaction and respiratory sensitivity in some people.**Carcinogenicity:** This product contains crystalline silica. Repeated inhalation of respirable free crystalline silica dust may cause delayed lung injury (silicosis) and cancer.**Skin Irritation:** Irritant.**Eye Irritation:** Irritant.**Mutagenicity:** Butyl glycidyl ether (BGE) was found to be mutagenic in a number of in vitro tests. In vivo studies have shown mixed mutagenic results.**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.**IATA: Non-Bulk****Proper Shipping Name:** Resin compounds, N.O.I.**IMDG: Non-Bulk****Proper Shipping Name:** Resin compounds, N.O.I.**TDG: Non-Bulk****Proper Shipping Name:** Resin compounds, N.O.I.**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.

---

**Effective Date: 6/6/08**

---

Chemical Name: Aluminum  
Percent in Composition: 30 - 60 % by wt

**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.

### **International Regulations:**

**Australian Inventory Status:** This product contains only chemicals which are currently listed on the Australian Inventory of Chemical Substances.

**Canadian Inventory Status:** This product contains components which are included on the Domestic Substances List (DSL) and the Non-Domestic Substances List (NDSL).

**Canadian WHMIS:** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations. D2A, D2B

**European Inventory Status (EINECS):** This product contains only chemicals that are currently listed on the European Inventory of Existing Commercial Chemical Substances (EINECS).

**Japanese Inventory Status:** This product contains only chemicals currently listed on the Japanese Ministry of International Trade and Industry List of Existing and New Chemical Substances.

### **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: 0.1 - 0.2 % 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: 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

Effective Date: 6/6/08

Chemical Name: Oxirane, (Butoxymethyl)-  
Common Name: Butyl glycidyl ether  
CAS Number: 2426-08-6  
Comment: Hazardous Substance

**16. OTHER INFORMATION**

**MSDS No:** 6072  
**Reason Issued:** 6/08 add WHMIS  
**Title:** EH&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 program. This product has not been tested for, and therefore is not recommended or suitable for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended or likely, or for uses for which implantation within the human body is intended, and Huntsman assumes no liability for any such uses.

The information and recommendations contained herein are not intended to constitute performance information concerning the product, which is available in separate technical data sheets available from Huntsman upon request. Users are urged, and are urged to urge others who may come in contact with the product, to obtain and consult data sheets prior to purchase, use, transportation or storage of the product.

HUNTSMAN MAKES NO REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY, QUALITY, OR FITNESS FOR A PARTICULAR PURPOSE. HUNTSMAN'S LIABILITY IS STRICTLY LIMITED TO REIMBURSEMENT OF BUYER'S PURCHASE PRICE, OR IN HUNTSMAN'S DISCRETION REPLACEMENT, OF THE PRODUCT IN RESPECT OF WHICH SUCH CLAIM IS MADE. HUNTSMAN'S LIABILITY IS STRICTLY LIMITED BY LEGAL NOTICES IN TECHNICAL DATA SHEETS, PRODUCT LITERATURE, AND/OR SALE DOCUMENTS. The foregoing DISCLAIMERS and LIMITATION OF LIABILITY supercede inconsistent or contradictory provisions in Buyer's documents.

USER SHOULD CONSULT A LEGAL ADVISOR OR THE APPROPRIATE GOVERNMENTAL AGENCY TO DETERMINE THE APPLICABILITY OR EFFECT OF ANY LAW OR REGULATION WITH RESPECT TO THE PRODUCT. HUNTSMAN DOES NOT UNDERTAKE TO FURNISH ADVICE ON SUCH MATTERS.

NO PERSON OR ORGANIZATION EXCEPT A DULY AUTHORIZED HUNTSMAN EMPLOYEE IS AUTHORIZED TO PROVIDE OR MAKE AVAILABLE DATA SHEETS FOR HUNTSMAN PRODUCTS. DATA SHEETS FROM UNAUTHORIZED SOURCES MAY CONTAIN INFORMATION THAT IS NO LONGER CURRENT OR ACCURATE. NO PART OF THIS DATA SHEET MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM, OR BY ANY MEANS, WITHOUT PERMISSION IN WRITING FROM HUNTSMAN. ALL REQUESTS FOR PERMISSION TO REPRODUCE MATERIAL FROM THIS DATA SHEET SHOULD BE DIRECTED TO HUNTSMAN, MANAGER, PRODUCT SAFETY AT THE ABOVE ADDRESS.