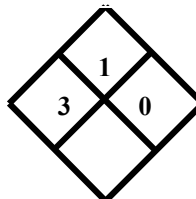


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24-Hour Emergency Phone: 1-888-354-3323

Effective Date: 8/4/04**Material Safety Data Sheet**

MSDS No: 33166

1. PRODUCT IDENTIFICATION**Trade Name:** Ren 4569**Chemical Family:** Modified Aliphatic Polyamine

NFPA RATING

Health:	3
Flammability:	1
Reactivity:	0
Personal Protection:	

HMIS RATING

Synonyms:

RP 4569 Hardener

Intended Use or Product Type: Seamless model paste hardener**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				
*	100-51-6 Common Name:	Benzenemethanol Benzyl alcohol	NE	NE	NE	NE	NE	NR	NR	NR
*	12136-45-7	Potassium oxide	NE	NE	NE	NE	NE	NR	NR	NR
*	1309-48-4 Common Name:	Magnesium oxide Calcined brucite	10 mg/m3	NE	15 mg/m3	NE	NE	NR	NR	NR
*	1313-59-3	Sodium Oxide	NE	NE	NE	NE	NE	NR	NR	NR
*	1344-28-1 Common Name:	Aluminum Oxide (Al ₂ O ₃) Alumina	10 mg/m3	NE	5 mg/m3	NE	NE	NR	NR	NR
*	21645-51-2 Common Name:	Aluminum hydroxide Hydrated Alumina	NE	NE	NE	NE	NE	NR	NR	NR
*	2855-13-2 Common Name:	Cyclohexanemethanamine, 5-Amino-1,3,3-Trimethyl- Isophorone diamine	NE	NE	NE	NE	NE	NR	NR	NR
*	3236-53-1 Common Name:	1,6-Hexanediamine, 2,2,4-Trimethyl- 2,2,4-Trimethylhexamethylenediamine	NE	NE	NE	NE	NE	NR	NR	NR
*	3236-54-2 Common Name:	1,6-Hexanediamine, 2,4,4-Trimethyl- 2,4,4-Trimethylhexamethylenediamine	NE	NE	NE	NE	NE	NR	NR	NR

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*	63148-62-9 Common Name:	Siloxanes and Silicones, di-Me Dimethyl siloxanes and silicones	NE	NE	NE	NE	NE	NR	NR	NR
*	67762-90-7 Common Name:	Siloxanes and silicones, di-me, reaction products with silica Amorphous hydrophobic fumed silica	NE	NE	NE	NE	NE	NR	NR	NR
*	7631-86-9 Common Name:	Silica Fumed Silica	NE	NE	NE	NE	NE	NR	NR	NR
*	25322-69-4 Common Name:	Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-hydroxy- Polypropylene Glycol	NE	NE	NE	NE	NE	NR	NR	NR
	26338-45-4	AZIRIDINE, HOMOPOLYMER, HYDROCHLORIDE	NE	NE	NE	NE	NE	NR	NR	NR
	540-97-6 Common Name:	Cyclohexasiloxane, Dodecamethyl- Dodecamethylcyclohexasiloxane	NE	NE	NE	NE	NE	NR	NR	NR
	541-02-6 Common Name:	Cyclopentasiloxane, Decamethyl- Decamethylcyclopentasiloxane	NE	NE	NE	NE	NE	NR	NR	NR
	556-67-2 Common Name:	Cyclotetrasiloxane, Octamethyl- Octamethylcyclotetrasiloxane	NE	NE	NE	NE	NE	NR	NR	NR
*	68609-08-5 Common Name:	Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer Bisphenol A/IPDA adduct	NE	NE	NE	NE	NE	NR	NR	NR
*	9002-98-6 Common Name:	Aziridine, Homopolymer Polyethylenimine	NE	NE	NE	NE	NE	NR	NR	NR
	Confidential	Silicone	NE	NE	NE	NE	NE	NR	NR	NR

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

3. HAZARDS IDENTIFICATION

Emergency Overview: Causes severe skin irritation. Causes eye irritation. May cause skin burns and allergic skin reaction. Harmful if absorbed through skin.

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

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.

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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 severe skin irritation and may cause skin burns. Can cause eye irritation and allergic skin reaction. Can be harmful if absorbed through skin.

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: Danger!

Precautions: Causes severe skin irritation and may cause skin burns. Can cause eye irritation and allergic skin reaction. Can be harmful if absorbed through skin. Do not get on skin or on clothing. Avoid contact with eyes. 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.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Color:	Beige
Odor:	Amine-Like
Physical State:	Thixotropic Paste
Solubility in Water:	Not Determined
Viscosity:	psi
Vapor Pressure:	Not Determined
Specific Gravity:	1.59 (water = 1)
Boiling Point:	Not Determined
Evaporation Rate:	Not Determined
Density:	1.6 g/cm ³
Vapor Density:	Not Determined
pH:	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 Dermal Toxicity (LD50): Component(s) are toxic, 200 - 1000 mg/kg (rabbit).

Sensitization: Possible in susceptible individuals.

Skin Irritation: Severe skin 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

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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:** This product does not contain any chemicals currently on the California list of Known Carcinogens and Reproductive Toxins.**Pennsylvania Right-to-Know:** The following is required composition information:

Chemical Name: Aluminum hydroxide
Common Name: Hydrated Alumina
CAS Number: 21645-51-2
Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-hydroxy-
Common Name: Polypropylene Glycol
CAS Number: 25322-69-4
Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol A
diglycidyl ether homopolymer
Common Name: Bisphenol A/IPDA adduct
CAS Number: 68609-08-5
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: Benzenemethanol
Common Name: Benzyl alcohol
CAS Number: 100-51-6
Comment: Hazardous Substance

16. OTHER INFORMATION

MSDS No: 33166
Approved By: Dianne Blessing
Title: EH&S Specialist

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