

4917 Dawn Avenue
East Lansing, MI 48823-5691

8am to 4:30pm Phone: (517) 351-5900
24-Hour Health/Environmental Emergency Phone: 1-888-354-3323

Effective Date: 4/21/03

Material Safety Data Sheet

MSDS No: 33727

1. PRODUCT IDENTIFICATION

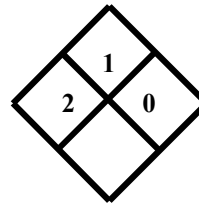
Trade Name: Ren 6491

Chemical Family: Polyol

Synonyms:

LST 63-736 Hardener
RP 6491 Hardener

Intended Use or Product Type: Polyurethane



NFPA RATING

Health	2
Flammability	1
Reactivity	0
Protective Equipment	

HMIS RATING

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)t etrakis- Amine based tetrol	NE	NE	NE	NE	NE	NR	NR	NR
*	9051-49-4	Poly(Oxy(Methyl-1,2-Ethanediyol)), .alpha.-Hydro.-omega.-Hydroxy, Ether with 2,2-Bis(Hydroxymethyl)-1,3-Propa nediol (4:1) Polyether polyol	NE	NE	NE	NE	NE	NR	NR	NR

* = OSHA Hazardous Ingredient

3. HAZARDS IDENTIFICATION

Emergency Overview: Causes eye, skin, and respiratory irritations. May cause allergic skin reaction.

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

Effective Date: 4/21/03

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 eye, skin, and respiratory irritations. May cause allergic skin reaction.

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: > 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: Warning!

Precautions: Causes eye, skin, and respiratory irritations. May cause allergic skin reaction. Avoid contact with eyes, skin, and clothing. Avoid breathing vapor or mist. Avoid breathing vapor or mist. Avoid prolonged or repeated contact with skin. Keep container closed. 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.

Effective Date: 4/21/03

Eye Protection: Wear splash-proof chemical goggles.

Engineering Controls: General mechanical and local exhaust in accordance with ACGIH recommendations.

9. PHYSICAL AND CHEMICAL PROPERTIES

Color:	Off White
Odor:	None
Physical State:	Liquid
Solubility in Water:	Not Determined
Vapor Pressure:	Not Determined
Specific Gravity:	1.07 (water = 1)
Boiling Point:	Not Determined
Evaporation Rate:	Not Determined
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 Inhalation Exposure Effects: Respiratory irritant.

Sensitization: Possible in susceptible individuals.

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.

Effective Date: 4/21/03

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 product is considered to be a hazardous chemical under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

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 (Al₂O₃)

Common Name: Alumina

Percent in Composition: 1.1428 % by wt

Comment:

TSCA Section 8(b) - Inventory Status: Chemical components listed on TSCA Inventory.

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:

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

Chemical Name: Poly(oxy(methyl-1,2-ethanediyl)), 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: Oxirane, methyl-, polymer with oxirane

Common Name: Polyether Polyol

CAS Number: 9003-11-6

Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: 2-Propanol, 1,1',1'',1'''-(1,2-ethanediylidinitrilo)tetrakis-

Common Name: Amine based tetrol

CAS Number: 102-60-3

Comment: Not on Pennsylvania Hazardous Substance List

Effective Date: 4/21/03

Chemical Name: Silica
Common Name: Fumed Silica
CAS Number: 7631-86-9
Comment: Hazardous Substance

Chemical Name: Aluminum Oxide (Al₂O₃)
Common Name: Alumina
CAS Number: 1344-28-1
Comment: Environmental Hazardous Substance

16. OTHER INFORMATION

MSDS No: 33727
Approved By: Kenneth L. Payne
Title: E,H&S Manager

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