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Effective Date: 1/22/10

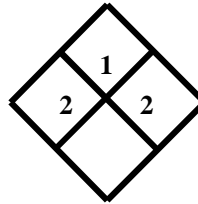
Material Safety Data Sheet

MSDS No: 63147

1. PRODUCT IDENTIFICATION

Trade Name: RenShape SL V2 US

Chemical Family: Epoxy resin and acrylate ester blend



NFPA RATING

Intended Use or Product Type: Rapid Modelling Resin

2. COMPOSITION / INFORMATION ON INGREDIENTS

O S H A	CAS No.	CHEMICAL IDENTITY	EXPOSURE LIMITS				MFR.	CARCINOGEN STATUS		
			ACGIH		OSHA			IARC	NTP	OSHA
			TWA	STEL	PEL	STEL				
	Confidential Concentration	alkyl carbonate 1.00 - 5.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
	Confidential Concentration	Cycloaliphatic epoxy resin 40.00 - 70.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
	Confidential Concentration	polyol 10.00 - 30.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
	Confidential Concentration	epoxy resin 10.00 - 30.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
	Confidential Concentration	Diacrylate esters 5.00 - 10.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
	Confidential Concentration	Acrylate esters 3.00 - 7.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
	Confidential Concentration	antimony compound 1.00 - 5.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
*	Confidential Concentration	Photoinitiator 1.00 - 5.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
	Confidential Concentration	cyclic alcohol 3.00 - 7.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
	Confidential Concentration	Aliphatic trifunctional epoxy 3.00 - 7.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR



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

3. HAZARDS IDENTIFICATION

Emergency Overview: WARNING!!! Causes severe eye irritation. Causes skin irritation and possible allergic skin reaction. Harmful if inhaled. Harmful if swallowed.

Primary Route(s) of Entry: Dermal, inhalation.

Potential Health Effects: Vapor or fume can be possibly harmful if inhaled. Substance can cause substantial irritation to eyes. Substance can cause moderate irritation to skin. Substance can be possibly harmful if swallowed.

Carcinogenicity (NTP, IARC, OSHA): The chemicals listed in Section 2 are not considered to be carcinogenic by NTP, IARC, or OSHA.

Chronic: Prolonged or repeated exposure can cause allergic reaction.

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.

Note to Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed. It may appear after weeks or even months of frequent and prolonged contact.

Medical Conditions Aggravated by Exposure: Allergy, eczema, eye or respiratory conditions.

5. FIRE FIGHTING MEASURES

Flash Point: > 140°C (> 284 °F) (estimated)

Fire Fighting Extinguishing Media: Carbon dioxide, foam, dry chemical, water spray.

Fire Fighting Equipment: Use self-contained breathing apparatus and full protective clothing.

Fire and Explosion Hazards: Keep fire-exposed containers cool with water. Do NOT use a solid stream of water. A solid stream of water can spread fire.

Hazardous Combustion Products: Decomposition and combustion products may be toxic.

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6. ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Dike and absorb spill on inert material (sand, earth, etc.). Transfer to containers for disposal. Remove contaminated clothing and wash affected skin areas with soap and water. Wash clothing before re-use.

7. HANDLING AND STORAGE

Signal Word: Warning !

Precautions: Avoid contact with eyes, skin, or clothing. Wear eye protection and impervious gloves when handling. Wash thoroughly after handling. Avoid breathing vapor or mist. Keep containers closed when not in use. Use only with adequate ventilation. Do not take internally.

Other Handling Information: In accordance with good industrial practice, handle with care and avoid unnecessary personal contact. Avoid contact with eyes and prolonged or repeated skin contact. Do not inhale mists. Use with adequate ventilation. For industrial use only.

Storage Information: STORAGE TEMPERATURE: 35°C, maximum. Store indoors in a cool, dry area with adequate ventilation.

Additional Information: PLEASE READ TECHNICAL DATA SHEET BEFORE HANDLING THE PRODUCT. KEEP OUT OF THE REACH OF CHILDREN. FOR INDUSTRIAL USE ONLY.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal Protective Equipment: Eye bath and safety shower should be available. Wear protective clothing.

Exposure Guidelines: Wash thoroughly after handling and before eating, drinking, or using tobacco products.

Skin Protection: Wear impervious gloves.

Respiratory Protection: Wear respirator (MSHA/NIOSH or approved equivalent) suitable for concentrations and type of air contaminants encountered.

Eye Protection: Wear splash-proof chemical goggles.

Engineering Controls: Good general mechanical ventilation and local exhaust if needed.

Emergency Response Protection: Wear breathing apparatus (MSHA/NIOSH-approved, pressure demand, self-contained or equivalent) and full protective gear.

9. PHYSICAL AND CHEMICAL PROPERTIES

Color:	Clear
Odor:	No Discernable Odor
Physical State:	Liquid
Solubility in Water:	Insoluble
Viscosity:	465 cps at 25°C (77 °F)
Specific Gravity:	1.15 (Water =1)
Evaporation Rate:	< 1 (Butyl Acetate = 1)



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Vapor Density: > 1 (Air = 1) (estimate)
VOC: Negligible
pH: Not Evaluated
Coefficient of water/oil: Not Evaluated

10. STABILITY AND REACTIVITY

Conditions to Avoid: Elevated temperatures, acids and amines.

Stability: Unstable (reactive) upon depletion of inhibitor.

Incompatibility: Water, strong oxidizing agents, acids, and bases.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide and hydrocarbons.

Hazardous Polymerization: Will not occur. High temperatures, inhibitor depletion, accidental impurities, or exposure to radiation or oxidizers may cause spontaneous polymerizing reaction generating heat/pressure. Closed containers may rupture or explode during runaway polymerization.

11. TOXICOLOGICAL INFORMATION

Acute Oral Effects (LD50): Not available.

Acute Dermal Toxicity (LD50): Not available.

Inhalation Toxicity (LC50): Not available

Sensitization: Allergic dermatitis or respiratory response in susceptible individuals may be delayed. It may appear after weeks or even months of frequent and prolonged contact.

Skin Irritation: Moderate irritant.

Eye Irritation: Moderate - severe.

12. ECOLOGICAL INFORMATION

Biodegradability: No information available.

Ecotoxicity: No information available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Incinerate liquid; landfill or incinerate contaminated diking material in accordance with local, state, and federal regulations.

14. TRANSPORT INFORMATION

DOT: Non-Bulk

Proper Shipping Name: Not Regulated

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IATA: Non-Bulk
Proper Shipping Name: Not Regulated

IMDG: Non-Bulk
Proper Shipping Name: Not Regulated

TDG: Non-Bulk
Proper Shipping Name: Not Regulated

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): This product is not considered to be a P or U listed hazardous waste under RCRA (40 CFR 261).

SARA Title III: Section 311/312 - Hazard Communication Standard (HCS): Immediate (acute) health hazard
Delayed (chronic) health hazard

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: antimony compound
CAS Number: Confidential
Percent in Composition: 1 - 5 % by wt
Comment: ANTIMONY COMPOUNDS

TSCA Section 8(b) - Inventory Status: All chemical(s) comprising this product are either exempt or listed on the 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.

International Regulations:

Australian Inventory Status: This product contains one or more chemicals currently not on the Australian Inventory of Chemical Substances.

Canadian Inventory Status: This product contains components which are included on the Domestic Substances List (DSL) or 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. D2B

European Inventory Status (EINECS): This product contains one or more chemicals currently not on the European Inventory of Existing Commercial Chemical Substances (EINECS) or Pre-market notified.

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Japanese Inventory Status: This product contains one or more chemicals currently not 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: Benzene, methyl-

Common Name: Toluene

CAS Number: 108-88-3

Percent in Composition: 0.001 - 0.004 % by wt

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

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

Chemical Name: Cycloaliphatic epoxy resin

CAS Number: Confidential

Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: epoxy resin

CAS Number: Confidential

Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: polyol

CAS Number: Confidential

Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Diacrylate esters

CAS Number: Confidential

Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Acrylate esters

CAS Number: Confidential

Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Aliphatic trifunctional epoxy

CAS Number: Confidential

Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: cyclic alcohol

CAS Number: Confidential

Comment: Not on Pennsylvania Hazardous Substance List

16. OTHER INFORMATION

MSDS No: 63147
Reason Issued: 12/09 new product
Prepared By: Matthew Austin
Approved By:
Title:

Effective Date: 1/22/10

Other Information: L/M Codes: DLW/CA2 (D10020032) [DE5]
Material Code: SLSV2

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