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**Effective Date:** 5/9/08

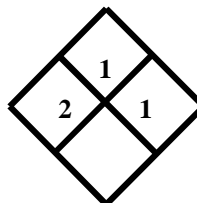
**Material Safety Data Sheet**

MSDS No: 6120

**1. PRODUCT IDENTIFICATION**

**Trade Name:** RenCast 6426-1

**Chemical Family:** Isocyanate



NFPA RATING

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

HMIS RATING

**Synonyms:**  
RP 6426-1 Resin

**Intended Use or Product Type:** Fast polyurethane casting system 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				
*	101-68-8 Common Name: Concentration	Benzene, 1,1'-Methylenebis[4-Isocyanato-MDI 15.00 - 40.00 % by wt	0.005 ppm	NE	0.02 ppm	NE	NE	NR	NR	NR
*	6846-50-0 Common Name: Concentration	Propanoic Acid, 2-Methyl-, 2,2-Dimethyl-1-(1-Methylethyl)-1,3-Propanediyl Ester Trimethyl pentanediol diisobutyrate 15.00 - 40.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
*	9016-87-9 Common Name: Concentration	Isocyanic Acid, Polymethylenepolyphenylene Ester Polymethylene polyphenyl isocyanate 15.00 - 40.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR

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

**3. HAZARDS IDENTIFICATION**

**Emergency Overview:** Can cause skin irritation, eye irritation, allergic respiratory reaction, and allergic skin reaction. Can be harmful if inhaled.

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

#### **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:** Contact with liquid causes eye and skin irritation. If inhaled causes breathlessness, chest discomfort, and reduced pulmonary function. May cause allergic skin and respiratory reactions in some individuals, leading to asthma type spasms of the bronchial tubes and difficulty in breathing.

**Medical Conditions Aggravated by Exposure:** Persons with asthmatic-type conditions, chronic bronchitis, other chronic respiratory diseases, eye conditions or recurrent skin eczema or sensitization should be excluded from working with isocyanates.

**Additional Information:** Referral to a physician is recommended if there is any question about the seriousness of any injury.

#### **5. FIRE FIGHTING MEASURES**

<b>Flash Point:</b>	> 200°F (> 93 °C)
<b>Flash Point Method Used:</b>	Estimated
<b>Flammable Limits in Air (Lower - % by volume):</b>	Not established
<b>Flammable Limits in Air (Upper - % by volume):</b>	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. Avoid water contamination in closed containers or confined spaces. Carbon dioxide evolved.

#### **6. ACCIDENTAL RELEASE MEASURES**

**Accidental Release Measures:** Absorb with absorbent material and place in open top container. Under good ventilation, decontaminate absorbant and spill area with a mixture of 90% water, 8% ammonia and 2% detergent (exothermic reaction). Leave ventilated 24 hours before disposal. Avoid contact.

#### **7. HANDLING AND STORAGE**

**Signal Word:** Warning!

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**Precautions:** Can cause skin irritation, eye irritation, allergic respiratory reaction, and allergic skin reaction. Can be harmful if inhaled. Avoid breathing vapor or mist. Avoid contact with eyes, skin, and clothing. 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:** Impervious synthetic gloves.

**Respiratory Protection:** If a person is concerned with exposure to isocyanates, an organic respirator can provide protection at less than the TLV. It is not a requirement at an exposure level less than the TLV. For exposures in excess of the TLV, an air supplied respirator would be required. Conditions that may create exposures above the TLV are spray applications, the material being strongly heated in excess of 125F before application, or the use of material in poorly ventilated areas.

**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>	Dark Brown
<b>Odor:</b>	Slightly sweet
<b>Physical State:</b>	Liquid
<b>Solubility in Water:</b>	Reacts with water
<b>Vapor Pressure:</b>	Not Determined
<b>Specific Gravity:</b>	1.01 (water = 1)
<b>Boiling Point:</b>	Not Determined
<b>Melting Point:</b>	Not Determined
<b>Evaporation Rate:</b>	Not Determined
<b>Density:</b>	Not Determined
<b>Vapor Density:</b>	Not Determined
<b>VOC:</b>	0 g/L
<b>pH:</b>	Not Determined
<b>Coefficient of water/oil:</b>	Not Determined

**Percent Volatile:** Not determined.

## **10. STABILITY AND REACTIVITY**

**Conditions to Avoid:** Contamination with moisture and other products that react with isocyanates. Avoid prolonged heating over 160f or storing below 75f. Avoid water contamination.

**Stability:** Stable.

**Incompatibility:** Water, alcohols, strong oxidizing agents, strong bases, metal-organic compounds.

**Hazardous Decomposition Products:** Combustion may form toxic materials. Carbon monoxide, carbon dioxide, benzene, toluene, oxides of nitrogen, hydrogen cyanide.

**Hazardous Polymerization:** May occur.

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**11. TOXICOLOGICAL INFORMATION****Inhalation Toxicity (LC50):** Component(s) are toxic, 2 - 20 mg/l or 200 - 2000 ppm.

MDI= 0.49 mg/l (rat) (4 hr.)

**Sensitization:** May cause allergic skin reaction and respiratory sensitivity in some people.**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.**14. TRANSPORT INFORMATION****DOT: Non-Bulk****Proper Shipping Name:** Not Regulated**IATA: Non-Bulk****Proper Shipping Name:** Not Regulated**IMDG: Non-Bulk****Proper Shipping Name:** Not Regulated**TDG: Non-Bulk****Proper Shipping Name:** Not Regulated**Motor Freight Classification** 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 specifically listed as hazardous waste under RCRA (40 CFR 261). However, it is strongly recommended that compound be treated as a hazardous waste and disposed of accordingly.**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: Isocyanic Acid, Polymethylenepolyphenylene Ester

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Common Name: Polymethylene polyphenyl isocyanate  
Percent in Composition: 15 - 40 % by wt  
Comment: DIISOCYANATE COMPOUNDS

Chemical Name: Benzene, 1,1'-Methylenebis[4-Isocyanato-  
Common Name: MDI  
Percent in Composition: 15 - 40 % by wt  
Comment: DIISOCYANATE COMPOUNDS

**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:

**Canadian Inventory Status:** This product contains only chemicals that are currently listed on the Canadian Domestic Substance List.

**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. D1B D2A D2B

### 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: Isocyanic Acid, Polymethylenepolyphenylene Ester  
Common Name: Polymethylene polyphenyl isocyanate  
CAS Number: 9016-87-9  
Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Propanoic Acid, 2-Methyl-, 2,2-Dimethyl-1-(1-Methylethyl)-1,3-Propanediyl Ester  
Common Name: Trimethyl pentanediol diisobutyrate  
CAS Number: 6846-50-0  
Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Benzene, 1,1'-Methylenebis[4-Isocyanato-  
Common Name: MDI  
CAS Number: 101-68-8  
Comment: Environmental Hazardous Substance

## 16. OTHER INFORMATION

**MSDS No:** 6120  
**Approved By:** Dianne Blessing  
**Title:** EH&S Specialist

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**Effective Date: 5/9/08**

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