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**Effective Date:** 9/16/10

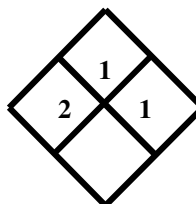
**Material Safety Data Sheet**

MSDS No: 6118

**1. PRODUCT IDENTIFICATION**

**Trade Name:** RenCast 6419 US

**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 6419 Resin

**Intended Use or Product Type:** Polyurethane 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 40.00 - 70.00 % by wt	0.005 ppm	NE	0.02 ppm	NE	NE	NR	NR	NR
*	25686-28-6 Common Name: Concentration	Benzene, 1,1'-Methylenebis[4-Isocyanato-, Homopolymer Modified MDI 10.00 - 30.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
*	26447-40-5 Common Name: Concentration	Benzene, 1,1'-Methylenebis[Isocyanato-Diphenylmethane diisocyanate 1.00 - 5.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
*	115-96-8 Common Name: Concentration	Ethanol, 2-Chloro-, Phosphate (3:1) tris(chlorethyl) phosphate 5.00 - 10.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR



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

### 3. HAZARDS IDENTIFICATION

**Emergency Overview:** Causes irritation if inhaled and can cause skin irritation, eye irritation, allergic respiratory reaction, and allergic skin reaction. May be harmful if swallowed.

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

**Chronic:** Repeated overexposure may have effects on kidney and brain and may cause reproductive disorders.

### 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. Ingestion (ethanol, 2 chloro, phosphate) can cause harm to the central nervous system.

**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>	> 177°C (> 351 °F)
<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.

### 6. ACCIDENTAL RELEASE MEASURES

Effective Date: 9/16/10

**Accidental Release Measures:** Remove spillage by absorbing in absorbent material.

## 7. HANDLING AND STORAGE

**Signal Word:** Warning!

**Precautions:** Causes irritation if inhaled and can cause skin irritation, eye irritation, allergic respiratory reaction, and allergic skin reaction. May be harmful if swallowed. Avoid breathing vapor or mist. Avoid contact with eyes, skin, and clothing. Avoid tasting or swallowing. 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:** 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>	Amber
<b>Physical State:</b>	Liquid
<b>Solubility in Water:</b>	Reacts with water
<b>Vapor Pressure:</b>	0.0002 mm Hg at 25°C (77 °F)
<b>Specific Gravity:</b>	1.22 - 1.24 (water = 1)
<b>Boiling Point:</b>	Not Evaluated
<b>Melting Point:</b>	Not Evaluated
<b>Evaporation Rate:</b>	Slower than butyl acetate
<b>Vapor Density:</b>	> 1 (Air = 1)
<b>pH:</b>	Not Evaluated
<b>Coefficient of water/oil:</b>	Not Evaluated

## 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: 9/16/10

**Hazardous Polymerization:** Will not occur.**11. TOXICOLOGICAL INFORMATION****Acute Oral Effects (LD50):** Component(s) are slightly toxic, 500 - 5000 mg/kg (rat).  
Ethanol, 2-chloro-, phosphate (3:1)= 550 mg/kg (rat)**Acute Inhalation Exposure Effects:** Respiratory irritant.**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.**Additional Information:** DECONTAMINANT LIQUID: Water - 90 %, Ammonium hydroxide - 8 %, and Detergent - 2 %.**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**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.

Effective Date: 9/16/10

**SARA Title III: Section 304 - CERCLA:** This product contains the following chemicals regulated under Section 304 (40 CFR 302) as hazardous substance(s) for emergency release notification ("CERCLA" List):

Chemical Name: Benzene, 1,1'-Methylenebis[4-Isocyanato-  
Common Name: MDI  
CAS Number: 101-68-8  
Percent in Composition: 40 - 70 % by wt  
Component RQ: 5000

**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: Benzene, 1,1'-Methylenebis[4-Isocyanato-  
Common Name: MDI  
Percent in Composition: 40 - 70 % 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. 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 one or more chemicals currently not on the Japanese Ministry of International Trade and Industry List of Existing and New Chemical Substances.

### **State Regulations:**

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

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

Chemical Name: Benzene, 1,1'-Methylenebis[4-Isocyanato-, Homopolymer  
Common Name: Modified MDI  
CAS Number: 25686-28-6  
Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Ethanol, 2-Chloro-, Phosphate (3:1)

Effective Date: 9/16/10

Common Name: tris(chlorethyl) phosphate

CAS Number: 115-96-8

Comment: Not on Pennsylvania Hazardous Substance List

**16. OTHER INFORMATION**

**MSDS No:** 6118  
**Reason Issued:** 9/10 Update  
**Approved By:** Matt Austin  
**Title:** EHS Chemist

**Other Information:** CLW/ KBrR/ CA1 (C10026731) [C27]

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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.

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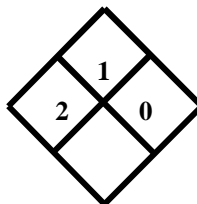
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**Effective Date:** 7/13/07**Material Safety Data Sheet**

MSDS No: 6119

**1. PRODUCT IDENTIFICATION****Trade Name:** Ren 6419**Chemical Family:** Polyol

NFPA RATING

<b>Health:</b>	<b>2</b>
<b>Flammability:</b>	<b>1</b>
<b>Reactivity:</b>	<b>0</b>
<b>Personal Protection:</b>	

HMIS RATING

**Synonyms:**

RP 6419 Hardener

**Intended Use or Product Type:** Polyurethane**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)tetrakis-Amine based tetrol  Common Name: Concentration 5.00 - 10.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
*	9051-49-4	Poly(Oxy(Methyl-1,2-Ethanediy)), .alpha.-Hydro-.omega.-Hydroxy, Ether with 2,2-Bis(Hydroxymethyl)-1,3-Propanediol (4:1) Polyether polyol  Common Name: Concentration 40.00 - 70.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
	115-96-8	Ethanol, 2-Chloro-, Phosphate (3:1) Chlorinated phosphate ester  Common Name: Concentration 10.00 - 30.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR

\* = OSHA Hazardous Ingredient

### 3. HAZARDS IDENTIFICATION

**Emergency Overview:** Causes irritation if inhaled and can cause skin irritation, eye irritation, and allergic skin reaction. May be harmful if swallowed.

**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:** Causes irritation if inhaled and can cause skin irritation, eye irritation, and allergic skin reaction. May be harmful if swallowed.

**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:** > 230°F (> 110 °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.

Effective Date: 7/13/07

## 7. HANDLING AND STORAGE

**Signal Word:** Warning!

**Precautions:** Causes irritation if inhaled and can cause skin irritation, eye irritation, and allergic skin reaction. May be harmful if swallowed. Avoid breathing vapor or mist. Avoid contact with eyes, skin, and clothing. Avoid tasting or swallowing. 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>	Cloudy, Off White
<b>Physical State:</b>	Liquid
<b>Solubility in Water:</b>	Soluble
<b>Vapor Pressure:</b>	Not Determined
<b>Specific Gravity:</b>	1.19 (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>pH:</b>	Not Determined
<b>Coefficient of water/oil:</b>	Not Determined

**Percent Volatile:** Not determined.

## 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.

Effective Date: 7/13/07

**11. TOXICOLOGICAL INFORMATION**

**Acute Oral Effects (LD50):** Component(s) are toxic, 50 - 500 mg/kg (rat).  
Ethanol, 2-chloro-, phosphate (3:1)= 550 mg/kg (rat)

**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.

**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

**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.

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**Effective Date: 7/13/07**

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Chemical Name: Aluminum Oxide (Al<sub>2</sub>O<sub>3</sub>)  
Common Name: Alumina  
Percent in Composition: 1.6571 % by wt  
Comment:

**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:** All components in this product 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

### **State Regulations:**

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

Chemical Name: Poly(Oxy(Methyl-1,2-Ethanediy)), .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: Ethanol, 2-Chloro-, Phosphate (3:1)  
Common Name: Chlorinated phosphate ester  
CAS Number: 115-96-8  
Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: 2-Propanol, 1,1',1'',1'''-(1,2-ethanediyldinitrilo)tetrakis-  
Common Name: Amine based tetrol  
CAS Number: 102-60-3  
Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Polyphosphoric Acids, Ammonium Salts  
Common Name: Ammonium polyphosphate  
CAS Number: 68333-79-9  
Comment: Not on Pennsylvania Hazardous Substance List

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

Chemical Name: Aluminum Oxide (Al<sub>2</sub>O<sub>3</sub>)  
Common Name: Alumina  
CAS Number: 1344-28-1

Effective Date: 7/13/07

Comment: Environmental Hazardous Substance

**16. OTHER INFORMATION**

**MSDS No:** 6119  
**Approved By:** Kenneth L. Payne  
**Title:** E,H&S Manager

**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.

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