

Material Safety Data Sheet

Renew UR 80 **MSDS No. 609**

Date Of Preparation: March 18, 1998September 2, 2008 Revision: 00006

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Section 1 - Chemical Product and Company Identification

Product/Chemical Name: PMC-121Renew UR 80 Part A

General Use: Polyurethane Elastomer

Manufacturer: 2000 St. John St., Easton PA 18042

Phone (610) 252-5800, FAX (610) 252-6200

Emergency Contact: Chem-Tel

Domestic 800-255-3924 International 813-248-0585

Section 2 - Composition / Information on Ingredients

Component	CAS Number	ACGIH TWA	Exposure Limits OSHA PEL	Weight Percent			
Polyurethane Prepolymer	-	None Established	None Established	95-100			
2,4 Toluene	584-84-	0.005 ppm	0.005 ppm	<1.0			
DiisocyanateDiisocyanate	926471-62-						
(mixed isomers)	5						

Section 3 - Hazards Identification

Potential Health Effects

Primary Entry Routes: Inhalation and Dermal

Target Organs: Lungs

Acute Effects Inhalation: Vapors cause irritation to respiratory tract and pulmonary edema can occur after a serious vapor exposure; pulmonary sensitization can occur in some individuals leading to asthma-like spasms of the bronchial tubes and difficulty in breathing; recent studies

Eye: May cause irritation, redness, tearing, and blur vision. Prolonged vapor contact may cause conjunctivitis.

Skin: Contact will cause irritation, reddening, swelling, rash, scaling or blistering. Prolonged or repeated contact can cause moderate dermatitis.

Ingestion: May have corrosive effects on the linings of the mouth and stomach: symptoms can include sore throat, abdominal pain, nausea, vomiting and diarrhea.

Carcinogenicity: IARC and NTP list Toluene Diisocyanate as a suspected carcinogen. Medical Conditions Aggravated by Long-Term Exposure: Asthma, bronchitis, and emphysema, skin allergies, eczema.

indicate overexposure may be associated with chronic lung impairment.

Section 4 - First Aid Measures

Inhalation: Remove source(s) of contamination and move victim to fresh air. If breathing has stopped, give artificial respiration, then oxygen if needed. Contact physician immediately. Asthma-like symptoms may develop immediately or be delayed several hours.

Eye Contact: Flush eyes with plenty of water. If irritation persists, seek medical attention.

Skin Contact: In case of skin contact, wash thoroughly with soap and water; remove contaminated clothing and launder before reuse; seek medical attention if rash develops.

Ingestion: Do not induce vomiting unless instructed by a physician. Contact physician immediately. *After first aid, get appropriate paramedic, or community medical support.*

Section 5 - Fire-Fighting Measures

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Flash Point: >270 °F Flash Point Method: TOC LEL: Not Established UEL: Not Established

Flammability Classification: Non-Flammable

Extinguishing Media: Water Fog, Dry Chemical, and Carbon Dioxide Foam

Unusual Fire or Explosion Hazards: Hazardous decomposition products may be formed. Avoid water contamination in closed containers or confined areas as exothermic heat and carbon dioxide can evolve.

Section 5 - Fire-Fighting Measures(continued)

Fire-Fighting Instructions: Fire fighters should wear self-contained breathing apparatus. Do not release runoff from fire control methods to sewers or waterways.

Fire-Fighting Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in pressure-demand or positive-pressure mode.

Section 6 - Accidental Release Measures

Spill /Leak Procedures: Only properly protected personnel should remain in the spill area; dike and contain spill; absorb or scrape up excess into suitable container for disposal; wash area with dilute ammonia solution. Stop or reduce discharge if it can be done safely.

Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

Section 7 - Handling and Storage

Handling Precautions: Minimize breathing of vapors and avoids prolonged or repeated contact with skin. Wear proper protective equipment. If ventilation is not sufficient, wear proper respiratory equipment. Avoid moisture contamination. Reseal partial containers. Use good general housekeeping procedures.

Storage Requirements: Store in cool dry, well-ventilated area.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls:

Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

Administrative Controls:

Respiratory Protection: Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear an MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or nonroutine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA. *Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.* If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

Section 8 - Exposure Controls / Personal Protection (continued)

Protective Clothing/Equipment: Wear chemically protective gloves, boots, and aprons to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics

Section 9 - Physical and Chemical Properties

Physical State: Liquid

Appearance: Clear yellow viscous liquid

Odor: Sharp pungent odor

Vapor Pressure: None (Polymeric Resin)

Vapor Density (Air=1): >1

Specific Gravity (H2O=1, at 4 °C): 1.04

Water Solubility: Negligible:

Boiling Point: None (Polymeric Resin)

% Volatile: Nil

Freezing/Melting Point: None (Polymeric

Resin)

Viscosity: 50 poise

Evaporation Rate: Not Applicable

Section 10 - Stability and Reactivity

Stability: PMC-121-50 Part AThis product is stable at room temperature in closed containers under normal storage and handling conditions.

Polymerization: Hazardous polymerization can occur.

Chemical Incompatibilities: Strong bases, water, amines, alcohols.

Conditions to Avoid: Avoid contamination with water and other materials that react with

Isocyanates.

Hazardous Decomposition Products: Toluene diisocyanate vapors, hydrogen cyanide gas, oxides of nitrogen, carbon monoxide and carbon dioxide

Section 11- Toxicological Information

Eye Effects: Irritation
Skin Effects: Irritation
Carcinogenicity: IARC and NTP list Toluene
Diisocyanate as a suspected carcinogen

Mutagenicity: None Determined Teratogenicity: None Determined

Section 12 - Ecological Information

None Established

Section 13 - Disposal Considerations

Disposal: This material contains a hazardous constituent as identified in RCRA, Title 40 CFR 261, Appendix VIII and must be disposed of in accordance with applicable Federal, state, and local regulations.

Section 14 - Transport Information

DOT IATA IMDG

Not Regulated Not Regulated Not Regulated

Section 15 - Regulatory Information

EPA Regulations:

RCRA Hazardous Waste Number: Not listed (40 CFR 261.33)

CERCLA Hazardous Substance (40 CFR 302.4) listed specific per RCRA, Sec. 3001; CWA, Sec.

311 (b)(4); CWA, Sec. 307(a), CAA, Sec. 112

<u>Chemical Name</u> <u>RQ</u> <u>% Reportable Component</u>

2,4 diisocyanatomethyl benzeneToluene Diisocyanate (mixed isomers) 100 lbs.

< 1.0

SARA Toxic Chemical (40 CFR 372.65):

<u>Chemical Name</u> <u>CAS #</u> <u>% by Weight</u>

Toluene Diisocyanate (mixed isomers) 26471-62-5 <1.0

This product contains the following chemicals that are subject to release reporting requirements under section 313 of SARA Title III.

<u>Chemical Name</u>		<u>Chemical Name</u>	CAS #	<u>% by Weight</u>
		Toluene Diisocyanate (mixed isomers)	26471-62-5	<1.0Chemical
	<u>Name</u>	<u>CAS #</u>	% by Weight	

Toluene-2, 4 -Diisocyanate 584-84-9 <1.0

Toluene-2, 6 -Diisocyanate 91-08-7 <1.0

SARA EHS (Extremely Hazardous Substance) (40 CFR 355):

<u>Chemical Name</u> <u>CAS #</u> <u>% by Weight</u> Toluene Diisocyanate (mixed isomers) 26471-62-5 <1.0Chemical

Toluene Diisocyanate (mixed isomers) 26471-62-5 <1.0<u>Chen</u>
ne TPQ % Reportable Component

Name TPQ % Reportable Component
2,4 Toluene Diisocyanate 500 lbs. . <1.0

2,6 Toluene Diisocyanate 500 lbs. <1.0

This product contains the following chemicals that are subject to release reporting requirements under section 313 of

SARA Title III.

Chemical NameCAS #% by WeightToluene-2, 4 -Diisocyanate584-84-9<1.0</td>Toluene-2, 6 -Diisocyanate91-08-7<1.0</td>

TSCA Inventory Status (40 CFR710): All components of this formulation are listed in the TSCA Inventory.

State Regulations:

<u>California Proposition 65</u>: This product contains toluene Toluene diisocyanateDiisocyanate, which in the State of California has found to cause Cancer, birth defects or other reproductive harm

Massachusetts And Pennsylvania Right To Know, Substance List:

Special Hazardous Substances (>0.01%)

Chemical NameCAS #% by WeightChemical NameCAS #% by Weight

Toluene Diisocyanate (mixed isomers) 26471-62-5 <1.0

Toluene-2, 4 -Diisocyanate 584-84-9 <1.0 Toluene-2, 6 -Diisocyanate 91-08-7 <1.0

Hazardous Substances (>1.00%)

<u>Chemical Name</u> <u>CAS #</u> <u>% by Weight</u>

None

Section 15 - Regulatory Information(continued)

Pennsylvania Right To Know, Substance List:

Special Hazardous Substances (>0.01%)

Chemical NameCAS #% by WeightToluene-2, 4 -Diisocyanate584-84-9<1.0</td>Toluene-2, 6 -Diisocyanate91-08-7<1.0</td>

Hazardous Substances (>1.00%)

Chemical Name CAS # % by Weight

None

Section 16 - Other Information

Prepared By: The Safety Department of Renew

Disclaimer: The information contained in this MSDS is considered accurate as of the version date. However, no warranty is expressed or implied regarding the accuracy of the data. Since the use of this product is not within the control of Renew, it is the user's obligation to determine the suitability of the product for its intended application and assumes all risk and liability for its safe use.



Material Safety Data Sheet

Renew UR 80 MSDS No. 609

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Section 1 - Chemical Product and Company Identification

Product/Chemical Name: PMC-121Renew UR 80 Part B

General Use: Polyurethane Elastomer

Manufacturer: 2000 St. John St., Easton PA 18042

Phone (610) 252-5800, FAX (610) 252-6200

Emergency Contact: Chem-Tel

Domestic 800-255-3924

International 813-248-0585 Chem-Tel 1-800-255-3924

Section 2 - Composition / Information on Ingredients

Section 2 Composition, information on ingreatenes								
Component	CAS Number	ACGIH TWA	Exposure Limits	Weight Percent				
			OSHA PEL	(%)				
Polyol (Non-Hazardous)	-	None Established	None Established	50-55				
New Jersey Trade Secret	_	None Established	None Established	20-25				
#221290880-5020P								
Di(methylthio)toluene diamine	106264-74-3	None Established	None Established	20-25				
Phenylmercuric neodecanoate	26545-49-3	0.01 mg/m^3	0.01 mg/m^3	0.1				

Section 3 - Hazards Identification

Potential Health Effects

Primary Entry Routes: Dermal

Target Organs: pancreas, liver, thyroid and eyes.

Acute Effects

Inhalation: Vapors, which are not significant unless heated or sprayed can cause irritation to respiratory tract.

Eye: May cause irritation, redness, tearing, and blur vision. Prolonged vapor contact may cause conjunctivitis.

Skin: Contact will cause irritation, reddening, and swelling.

Ingestion: May have corrosive effects on the linings of the mouth and stomach: symptoms can include sore throat, abdominal pain, nausea, vomiting and diarrhea.

Carcinogenicity: IARC, NTP, and OSHA do not list any components of this product as a carcinogen.

Medical Conditions Aggravated by Long-Term Exposure: Pre-existing skin disorders.

Chronic Effects of Overexposure:

This product contains an organo-mercury catalyst below the reportable level required by OSHA 1910.1200; however, due to the chronic toxicity of organo-mercury compounds careful handling of this product is required.

Section 4 - First Aid Measures

Inhalation: Remove source(s) of contamination and move victim to fresh air.

Eye Contact: Flush eyes with plenty of water. If irritation persists, seek medical attention.

Skin Contact: In case of skin contact, wash thoroughly with soap and water; remove contaminated clothing and launder before reuse; seek medical attention if rash develops.

Ingestion: Do not induce vomiting unless instructed by a physician. Contact physician immediately. *After first aid, get appropriate, paramedic, or community medical support.*

Section 5 - Fire-Fighting Measures

Flash Point: >300 °F (150°C) Flash Point Method: PMCC

Flammability Classification: Non-Flammable

Extinguishing Media: Water Fog, Dry Chemical, and Carbon Dioxide Foam

Unusual Fire or Explosion Hazards: None

Fire-Fighting Instructions: Fire fighters should wear self-contained

breathing apparatus. Do not release runoff from fire control methods to sewers or waterways.

Fire-Fighting Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

Section 6 - Accidental Release Measures

Spill /Leak Procedures: Dike and contain spill; absorb or scrape up excess into suitable

container for disposal. Stop or reduce discharge if it can be done safely.

Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

Section 7 - Handling and Storage

Handling Precautions: Minimize breathing of vapors and avoid prolonged or repeated contact with skin. Wear proper protective equipment. If ventilation is not sufficient, wear proper respiratory equipment. Use good general housekeeping procedures.

Storage Requirements: Store in cool dry, well-ventilated area.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls:

Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

Administrative Controls:

Respiratory Protection: Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear an MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or nonroutine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA. *Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres*. If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

Protective Clothing/Equipment: Wear chemically protective gloves, boots, and aprons to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

NFPA

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics

Section 9 - Physical and Chemical Properties

Physical State: Liquid Water Solubility: Negligible:

Appearance : Dark amber to dark brown **Boiling Point:** None (Polymeric Resin)

liquid % Volatile: Nil

Odor: Sharp pungent odor Freezing/Melting Point: None Determined

Vapor Pressure: None (Polymeric Resin) Viscosity: 5 poise

Vapor Density (Air=1): >1 Evaporation Rate: None (Polymeric Resin)

Specific Gravity (H2O=1, at 4 °C): 1.06

Section 10 - Stability and Reactivity

Stability: This product is stable at room temperature in closed containers under normal storage and

handling conditions.

Polymerization: Hazardous polymerization can not occur. **Chemical Incompatibilities:** Strong acids and oxidizers.

Conditions to Avoid: Avoid contamination with water and other materials that react with amines. **Thermal Decomposition Products:** Oxides of nitrogen, carbon monoxide and carbon dioxide.

Section 11- Toxicological Information

Toxicity Data:

Acute Inhalation Effects: Reproductive Toxicity: None Established

None established

Acute Oral Effects:

None Established

Acute Oral Effects:

None Established

Sensitization: None Established

Sensitization: None Established

Section 12 - Ecological Information

None Established

Section 13 - Disposal Considerations

Disposal: This material contains a hazardous constituent as identified in RCRA, Title 40 CFR 261, Appendix VIII and must be disposed of in accordance with applicable Federal, state, and local regulations.

Section 14 - Transport Information

DOT IATA IMDG

Not Regulated Not Regulated Not Regulated

Section 15 - Regulatory Information

EPA Regulations:

RCRA Hazardous Waste Number: Not listed (40 CFR 261.33)

CERCLA Hazardous Substance (40 CFR 302.4) listed per RCRA, Sec. 3001; CWA, Sec. 311 (b)(4); CWA, Sec. 307(a), CAA, Sec. 112

Components That Require Reporting RQ % of Reportable Component

Mercury (as part of catalyst) 1 lb. 0.03 Max

This product contains the following chemicals that are subject to release reporting requirements under section 313 of SARA Title III.

Chemical NameCAS #% by WeightMercury Compound------0.10 Max

TSCA Inventory Status (40 CFR 710): All components of this product are listed on the TSCA inventory.

SARA EHS (Extremely Hazardous Substance) (40 CFR 355): Not listed, Threshold Planning Quantity (TPQ)

State Regulations:

<u>California Proposition 65</u>: This product does not intentionally contain any chemicals, which have been identified by the state of California to cause cancer, birth defects or other reproductive harm.

16 - Other Information

Prepared By: The Safety Department of Renew

Disclaimer: The information contained in this MSDS is considered accurate as of the version date. However, no warranty is expressed or implied regarding the accuracy of the data. Since the use of this product is not within the control of Renew, it is the user's obligation to determine the suitability of the product for its intended application and assumes all risk and liability for its safe use.