

5121 San Fernando Road West
Los Angeles, CA 90039

8am to 5pm Phone: (818) 247-6210
24-Hour Health/Environmental Emergency Phone: 1-888-354-3323

Effective Date: 1/3/01

Material Safety Data Sheet

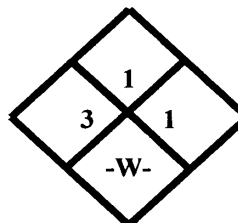
MSDS No: 61379

1. PRODUCT IDENTIFICATION

Trade Name: Uralane 6100A

Material Code: FPC7152

Chemical Family: Isocyanate Prepolymer



NFPA 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				
*	5124-30-1	CYCLOHEXANE, 1,1'-METHYLENEBIS[4-ISOCYANATO-CYCLOHEXANE, 1,1'-METHYLENEBIS[4-ISOCYANATO	.005 ppm	NE	NE	NE	NE	NR	NR	NR
	Common Name:									
	Concentration	0.00 - 10.00 % by wt								
*	54954-83-5	URETHANE PREPOLYMER	NE	NE	NE	NE	NE	NR	NR	NR
	Concentration	90.00 - 100.00 % by wt								

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

3. HAZARDS IDENTIFICATION

Emergency Overview: WARNING!!! Contains organic isocyanate. Causes severe eye and skin irritation and possible eye burns. Vapor or mist harmful if inhaled. Can cause allergic respiratory and skin reaction. Harmful if swallowed.

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

Potential Health Effects: Overexposure causes severe irritation of the respiratory tract and mucous membrane, tightness of the chest, shortness of breath, coughing and headache. Bronchitis and pulmonary edema may develop. Causes allergic respiratory reaction with asthma like attacks. Sensitization symptoms may be delayed. Substance in contact with eyes will cause a severe irritation and possible eye damage. Severely irritating to skin, may cause allergic reaction. Possibly harmful if swallowed.

Effective Date: 1/3/01

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 to skin and respiratory tract.

4. FIRST AID MEASURES

Ingestion: If swallowed dilute with water or milk. DO NOT INDUCE VOMITING!! Never give anything by mouth to a person having convulsions or unconscious. Get immediate medical attention.

Skin: For skin contact, wash affected areas with plenty of water, and soap, if available, for several minutes. Remove and clean contaminated clothing and shoes before re-use. Get medical attention if irritation occurs.

Inhalation: If inhaled, remove from area to fresh air. If not breathing, give artificial respiration. Get immediate medical attention. If breathing is difficult, transport to medical care and, if available, give supplemental oxygen.

Eyes: For eye contact, immediately flush eyes for at least 15 minutes with running water. Hold eyelids apart to ensure rinsing of the entire eye surface and lids with water. Get 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: Preexisting skin and lung conditions (i.e. asthma-like conditions).

5. FIRE FIGHTING MEASURES

Flash Point: 198°C (388 °F)

Flash Point Method Used: Tag Closed Cup

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: Substance react slowly with water to form carbon dioxide. Keep water out of containers. Avoid breathing vapor of fire exposed material.

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

6. ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Evacuate the spill area. Ventilate area. Wear complete protective equipment. Avoid breathing vapor. Use self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) for large spills in confined areas. 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 reuse. If spilled on a porous surface, ground contamination must be considered. Keep spill out of all sewers and open bodies of water.

7. HANDLING AND STORAGE

Effective Date: 1/3/01

Signal Word: Isocyanate.**Precautions:** Do not get in eyes, on skin, or on clothing . Wear chemical splash goggles and impervious gloves when handling. Wash thoroughly after handling. Avoid breathing vapor or mist. Use only with adequate ventilation. Keep containers closed when not in use. 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: Maximum: 34 °C. Store indoors in a cool, dry area with adequate ventilation. Use inert gas blanketing for bulk storage.**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:** Use good general mechanical ventilation and local exhaust.**Emergency Response Protection:** Wear breathing apparatus (MSHA/NIOSH-approved, pressure demand, self-contained or equivalent) and full protective gear.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, Colorless to Pale Yellow
Odor:	No Odor
Solubility in Water:	Reacts with water
Viscosity:	12000 cps
Vapor Pressure:	< 0.001 mm Hg at 20°C (68 °F)
Specific Gravity:	1.15 (Water =1)
Evaporation Rate:	< 1 (Butyl Acetate = 1)
Vapor Density:	> 1 (Air = 1)
VOC:	< 1 g/L (This is an estimated value.)

10. STABILITY AND REACTIVITY

Conditions to Avoid: Elevated temperatures, moisture, and other reactive materials.

Effective Date: 1/3/01

Stability: Stable under normal conditions.**Incompatibility:** Water, strong bases, alcohols, and carboxylic acids**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, oxides of nitrogen, traces of HCN.**Hazardous Polymerization:** May occur.**11. TOXICOLOGICAL INFORMATION****Acute Oral Effects (LD50):** Not available.**Acute Dermal Toxicity (LD50):** Not available.**Inhalation Toxicity (LC50):** Not available**Sensitization:** Skin sensitizer.**Skin Irritation:** Severe skin irritant.**Eye Irritation:** Severe eye irritant.**12. ECOLOGICAL INFORMATION****Biodegradability:** No information available.**Ecotoxicity:** No information available.**13. DISPOSAL CONSIDERATIONS****Waste Disposal Method:** Incinerate in approved equipment. Decontaminate diking material with decontaminant; then landfill in accordance with local, state, and federal 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

15. REGULATORY INFORMATION

Effective Date: 1/3/01

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

SARA Title III: Section 304 - CERCLA: This product contains no chemicals regulated under Section 304 as extremely hazardous chemicals for emergency release notification ("CERCLA" List).

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

SARA Title III: Section 313 Toxic Chemical List (TCL): This product does not contain a toxic chemical for routine annual 'Toxic Chemical Release Reporting' under Sec. 313 (40 CFR 372).

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

TSCA Section 12(b) - Export Notification: This product does not contain any chemicals subject to Section 12(b) export notification.

International Regulations:

Australian Inventory Status: This product contains only chemicals which are currently listed on the Australian Inventory of Chemical Substances.

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

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 : URETHANE PREPOLYMER
CASRN : 54954-83-5
Comment : Not on Pennsylvania Hazardous Substance List.

Chemical Name : CYCLOHEXANE, 1,1'-METHYLENEBIS[4-ISOCYANATO-
CASRN : 5124-30-1
Comment : Hazardous Substance.

16. OTHER INFORMATION

MSDS No:	61379
Reason Issued:	add SAP names
Prepared By:	Matthew Austin
Approved By:	Matthew Austin

Printed: 4/26/01

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Effective Date: 1/3/01

Title: EH&S Chemist
Approved Date: 05/12/00
Supersedes Date: 05/12/00**Other Information:** L/M Codes: CR-CL0597 (C10020030)
Material Code: FPC7152**Revision Summary:**

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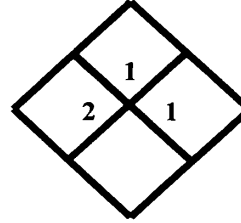
MSDS No: 61380

1. PRODUCT IDENTIFICATION

Trade Name: Uralane 6100B

Material Code: FPC7153

Chemical Family: Polyols in Solvents



NFPA 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	TETRAPROPOXYLATED ETHYLENEDIAMINE TETRAPROPOXYLATED ETHYLENEDIAMINE Concentration 10.00 - 30.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
*	2530-83-8	Silane, trimethoxy[3- (oxiranylmethoxy)propyl]- Concentration 0.00 - 10.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
*	25973-55-1	PHENOL, 2-(2H- BENZOTRIAZOL-2-YL)-4,6- BIS(1,1-DIMETHYLPROPYL)- Concentration 0.00 - 10.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
*	37625-56-2	2-Oxepanone, polymer with 2- ethyl-2-(hydroxymethyl)-1,3- propanediol Polyols Concentration 60.00 - 90.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
*	9082-00-2	POLYETHER TRIOL Concentration 0.00 - 10.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
	LA-9543-01	Bismuth carboxylate Common Name: Bismuth carboxylate Concentration 0.00 - 10.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
	LA-9543-02	Carboxylic Acid Common Name: Carboxylic Acid Concentration 0.00 - 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: 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 mist can cause irritation to the nose and throat. Liquid or vapor can cause substantial irritation to eyes. Substance can cause moderate irritation. 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: If swallowed dilute by giving two (2) glasses water to drink. See a physician. Never give anything by mouth to an unconscious person.

Skin: For skin contact, wash with large amounts of running water, and soap, if available, for 15 minutes. Remove contaminated clothing and shoes. Get immediate medical attention. Discard or decontaminate clothing before re-use and destroy contaminated shoes.

Inhalation: If inhaled, remove from area to fresh air. If not breathing, give artificial respiration. Get immediate medical attention. If breathing is difficult, transport to medical care and, if available, give supplemental oxygen.

Eyes: For eye contact, flush eyes with plenty of water for several minutes. Get medical attention if irritation occurs.

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: Eczema, allergy, skin and/or eye condition, and/or respiratory disease(s)

5. FIRE FIGHTING MEASURES

Flash Point: > 90°C (> 194 °F) (estimated)
Flash Point Method Used: Closed Cup

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

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

Effective Date: 1/3/01

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.

6. ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Evacuate the spill area. Wear protective clothing. 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. If spilled on a porous surface, ground contamination must be considered.

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.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Effective Date: 1/3/01

Appearance: Liquid
Color: Clear
Odor: Slight
Viscosity: 1200 cps at 25°C (77 °F)
Vapor Pressure: < 1 mm Hg at 20°C (68 °F)
Specific Gravity: 1.1 (Water = 1)
Evaporation Rate: < 1 (Butyl Acetate = 1)
Vapor Density: > 1 (Air = 1) (estimate)
VOC: 11 g/L (This is an estimated value.)

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Sensitization: May cause allergic skin reaction and sensitization.

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

IATA: 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 304 - CERCLA: Not listed.

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 does not contain any chemicals for routine annual toxic chemical release reporting under Section 313 (40 CFR 372).

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.

International Regulations:

Australian Inventory Status: This product contains only chemicals which are currently listed on the Australian Inventory of Chemical Substances.

Canadian Inventory Status: This product contains components which are included on the Domestic Substances List (DSL) and the Non-Domestic Substances List (NDSL).

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.

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: 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: 2-Oxepanone, polymer with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol

Common Name: Polyols

CAS Number: 37625-56-2

Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: TETRAPROPOXYLATED ETHYLENEDIAMINE

CAS Number: 102-60-3

Comment: Not on Pennsylvania Hazardous Substance List

Effective Date: 1/3/01

Chemical Name: POLYETHER TRIOL
CAS Number: 9082-00-2
Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Bismuth carboxylate
Common Name: Bismuth carboxylate
CAS Number: LA-9543-01
Comment: Not on Pennsylvania Hazardous Substance List

16. OTHER INFORMATION

MSDS No:	61380
Reason Issued:	added SAP numbers
Prepared By:	Matthew Austin
Approved By:	Matthew Austin
Title:	EH&S Chemist
Approved Date:	05/12/00
Supersedes Date:	05/12/00

Other Information: L/M Codes: - DL0597 (D10020030)
Material Code: FPC7153

Revision Summary:

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