Material Safety Data
U7700

Manufacturer:	Adurel International Inc.	HMIS	H 2
Address:	820 Water St Racine WI 53403	F	2
Phone #:	800-860-5834	R	1
MSDS Number:	U7700	P	x
CAS Number:			
DATE:	1/1/05		
Emergency Phone #:	262-770-0845		

The information found in this document is given in good faith but no warranty, expressed or implied, is made.

Section I- Material Identification

(Hazardous Components 1% or greater: Carcinogens 0.1% or greater)

Chemical Name (common name)	CAS #	%	OSHA PEL (PPM)	ACGIH TLV (PPM)	Other Limits
Urethane Prepolymer	9036-64-0	45-55	None	None	
Titanium Dioxide	13463-67-7	15-25	5mg/m3	5mg/m3	
Diethyl Glutarate	1119-40-0	10-20	None	None	1.5 ppm cmrg
Silica	7631-86-9	1.0	None	None	3mg/m3 cmrg
Aluminum Oxide	1344-28-1	<0.8	15mg.M3	None	15mg/m3 cmrg
Carbon Black	1333-86-4	<0.8	3.5 mg/m3	3.5mg/m3	
Toluene 2, 4 Diisocyanate	584-84-9	< 0.8	0.02ppm	0.02ppm	
Toluene 2, 6 Diisocyanate	91-08-7	<0.1	None	None	0.005 ppm 3M
Toluene	108-88-3	<0.1	100ppm	50ppm	

Section II- Physical and Chemical Characteristics

1) **Boiling Point:** 225
2) **Specific Gravity:** 1.26
3) **Vapor Pressure:** 0.1
4) **Vapor Density:** 5
5) **Evaporation Rate:** <0.1
6) **Solubility in Water:** 10%
7) **Water Reactive:** Non-Reactive
8) **Appearance and Color:** liquid coating
9) **Maximum V.O.C.:** 276 grams/liter

Section III- Fire and Explosion Data

1) **Flash Point:** 40F
2) **Auto Ignition:** 375
3) **Flammability Limits in Air:** 7.9%
4) **Extinguishing Media:** Water spray, carbon dioxide, dry chemical, foam
5) **Special protective equipment:** Use full protective clothing and self-contained breathing apparatus.

6) **Unusual Fire and explosion Hazards:** At higher temperature vapors can cause pressure build up in sealed containers. Use water to cool containers exposed to fire. Self contained respirator equipment and full protective clothing required when smoke or fumes are generated. Electrical grounding is not recommended.

Section IV- Reactivity Data

1) **Stability:** Avoid contact with moisture, reacts nonviolently evolving CO2. Avoid temperatures above recommended storage. Not sensitive to mechanical impact.
2) **Conditions to Avoid:** N/A
3**) Incompatibility:** Avoid strong oxidizing and reducing agents, strong acids and bases peroxides and amines. Electrical grounding is not recommended.
4) **Hazardous Decomposition:** Oxides of carbon and nitrogen, TDI, hydrogen cyanide and various hydrocarbons from incomplete combustion.
5) **Hazardous Polymerization:** Will not occur if handled per instructions.

Section V- Health Hazard Data: HMIS Hazard Rating No. 2

1) **Points if Entry: Inhalation, Dermal, Eyes, Ingestion**
2) **Potential Health Effects:**

Inhalation: Vapor or spray mist can cause headache, nausea and irritation of the nose, throat and lungs. Skin contact can be slightly irritating. Eye contact possible irritation to the eyes. IF swallowed contact physician immediately.

Eyes: Contact may cause severe irritation, redness, tearing and blurred vision.

Skin: Contact may cause moderate skin irritation. In some individuals exposure may result in allergic type symptoms causing rash, itching and hives.

Skin Absorption: N/A

Ingestion: Intake can cause gastrointestinal irritation, nausea, vomiting, diarrhea and headache.

Chronic: Materials are not known mutagenic, teralogenic, or reproductive health hazards. One scientific study of workers reported that exposure of isocyanates type chemicals resulted in larger declines in lung function compared to other workers.
TDI was listed as potential animal carcinogenic by NTP and IARC. National Toxicology Program study reported increased tumors in rats and mice via TDA exposure through a tube into stomach (oral gavage technique) lifetime inhalation studies on animals were negative regarding Carcinogenicity.

3) **Emergency First Aid Procedures:** Seek medical assistance for further treatment, observation and support if necessary.
4) **Eyes:** Flush at once with large amounts of lukewarm water lifting upper and lower lids for at least 15 minutes and get medical attention.
5) **Skin:** Remove contaminated clothing. Wash affected areas with soap and water. Obtain medical attention if irritation persists.
6) **Inhalation:** Move subject to fresh air. If necessary, restore breathing. Seek medical assistance.
7) **Ingestion:** If victim is conscious, give 2 glasses of water to dilute. Do not induce vomiting**.** <u>If swallowed call Poison Control Center, Hospital Emergency Room of Physician immediately. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquids into lungs. Do not give anything by mouth to an unconscious person.</u>

Section IV- Protection and Control Procedures

1) **Respiratory Protection:** Ventilation is recommended. Air movement must be designed to unsure turnover at all locations in work area to avoid build up of heavy vapors.
2) **Protective Gloves:** Wear protective gloves if skin sensitive.
3) **Eye Protection:** Do not wear contact lenses when working with this product. Use chemical goggles and safety glasses with side shields and rubber/latex gloves. Selection of specific items such as boots and apron will depend on operation. Wear respirator protection whenever airborne concentrations exceed TLV ceilings TWA, use NIOSH/OSHA approve respirators equipped with an organic vapor cartridge for licensed hazard.
Confined spaces, room or tanks are areas where concern for TLV's is especially important. Reference OSHA regulation CFR 29 1910.134 for recommended respiratory protection.
4)**Other (Specify):** Barrier cream if spraying.

Section VII- Precautions for Safe Handling and Use/ Leaks

1) **Steps to be taken if spilled:**

Ventilate area, eliminate all sources of ignition. Wear appropriate protective gear; contain leak or spill; cover with absorbent material; remove to container. Wash down area with dilute ammonium hydrozide or detergent solution, allow 30 minutes to react. For large spills, dike area and pump into closed containers. Prevent this material from entering waterways.

2) **Waste Disposal:** Dispose of in accordance with all federal, state, and local environmental regulations. Landfill if solidified. Incinerate at agency approved waste-disposal facilities.
3) **Environmental Impact:** NL
4) **Precautions for Handling and Storage:** Store in cool dry place.

Section VIII: Transport Information-

DOT	**Hazard Class**	**3**	
	Packaging Group	**III**	**UN 1993**
	Label	**Flammable**	
	Shipping Name	**Flammable Liquid, NOS (Petroleum Distillate)**	

Section IX: Regulatory Information

Title 111 Section 302	CASRN 26471-62-5 RQ: 100 lbs	
Title III Section 311/312	Health Hazard:	Acute yes, Chronic, yes, Fire – yes
Title III Section 313	CASRN 26471-62-5	< 1%
WHMIS Classification	All chemicals are listed.	