

**Material Safety Data Sheet**

For chemicals, coatings, and related materials  
In compliance with OSHA 29 CFR 1910.1200

Date Prepared:  
01-02-09

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Section I – Product

NAME: Polythane 1005 – Part A  
CLASS: Urethane Resin

HMIS HAZARD CODES  
Health: 2 (Moderate)  
Flammability: 2 (Moderate)  
Reactivity: 0 (Minimal)

Personal Protective Equipment: H

Section II – Hazardous Ingredients

---Ingredient---	Percent	C.A.S. Registry	LEL	Vapor Pressure
Material Description	by Weight			mm Hg @ 20°C
Polyester Resin	14-22	00010865-6	1.0	3.7
Polyester Resin	1-2	00010865-6	1.3	3.7
Glycol Ether Akylate	35-45	00010865-6	1.5	3.7
Xylene	10-13	001330-68-8	1.0	3.7
n-Butyl Acetate	10-13	000123-86-4	1.0	3.7

Section III – Physical Data

Boiling Range: n/a  
Vapor Pressure: 3.81 mm@20°C  
Specific Gravity: 1.06  
Evaporation Rate: Slower  
(relative to n-butyl acetate)  
Appearance and Odor: Liquid (clear or pigmented), Slight Odor.

Freezing Point: n/a  
Vapor Density: 4.52  
H<sub>2</sub>O Solubility: Negligible (< 0.1%)  
% Volatile by Volume: 30.59%

Section IV – Fire and Explosion Hazard Data

Flash point: 390°F  
(Method used) Pensky-Martens

Explosive Limits: LEL 1.0 UEL (%V in air) 13.1

Flammability Classification

OSHA: Combustible Liquid – Class III B  
DOT: Not regulated

Extinguishing Media:

Foam, Carbon Dioxide (CO<sub>2</sub>), Dry Chemical, Sand

Special Fire Fighting Procedures:

Wear protective clothing. Fight fire from a safe distance.  
Close all valves to the area. Shut off all power to the area.  
Emergency lights must be turned on.  
Self-contained breathing apparatus is to be used.

Unusual Fire and Explosion Hazards: None

Section V – Toxicological Information

---Ingredient--- Material Ingredient	OSHA PEL	ACGIH		LD50 (mg/kg)		LC50 (ppm)
		TLV (twa)		(rat)	(rbt)	(rat)
		Mg/m3	ppm	oral	dermal	inhal
Polyester Resin	n/a	n/a	100	8500	5001	4000
Polyester Resin	n/a	n/a	100	8500	5001	4350
Glycol Ether Akylate	n/a	n/a	100	8532	5001	4350
Xylene	n/a	n/a	100	7000	5001	4350
n-Butyl Acetate	n/a	n/a	100	8500	5001	4350

Section VI – Health Hazard Data

Effects of Overexposure:                              Threshold Limit Values:                              See Section V.  
   Contact irritating to eyes.

Emergency and First Aid Procedures:

  Move to fresh air. Apply artificial respiration, if necessary.  
   Wash skin with soap and water or waterless hand cleaners.  
   Remove contaminated clothing.  
   Induce vomiting.  
   Drink large quantities of water immediately.  
   Flush Eyes with water for 15 minutes, and get medical attention.  
   If breathing is difficult, oxygen may be given.

Section VIII – Reactivity Data

Stability:             Stable  
 Stability Conditions to Avoid:    None.  
 Incompatibility (Materials to Avoid Contact With): None.  
 Hazardous Decomposition Products: Oxides of carbon and aldehydes.  
 Hazardous Polymerization:     Will not occur.  
 Polymerization Conditions to Avoid:    None.

Section VIII – Spill or Leak Procedures

Steps For Material Spillage:

  Absorb with sand and dispose of in an approved manner.  
   Dike area with sand to contain spilled liquid.  
   Prevent spillage from entering underground water systems.  
   Ventilate area. Flush area with water but do NOT flush into sewer.  
   Remaining material may be emulsified with soap and water and absorbed.  
   Scoop up contaminated soil and place in dry drums.  
   Large spills may be pumped into closed, but not sealed containers.

Waste disposal methods:

  Dispose of in accordance with local regulations.

Section IX – Special Protection Information

Respiratory protection:  
   NESA/NIOSH approved respirator is highly recommended.  
 \*\*Always work in areas with adequate ventilation to allow dissipation of vapors.

Ventilation:  
   Provide adequate cross air circulation.

Protective Gloves:  
   Gloves resistant to chemical penetration

Eye Protection:  
   Splash-proof safety, Chemical Worker and Chemical Splash goggles.

Other Protective Equipment:

Eyewash Station, Emergency Shower, and use of barrier cream recommended.  
Chemical Apron, Rubber Foot Covering, Clean Long Sleeve and Leg Clothing.

Section X – Special Precautions

Handling and Storage Precautions:

Store in a cool dry place. Keep away from open flames.  
Store in tightly closed containers Store away from food and beverages.  
Wash thoroughly after handling.  
Wash before eating, drinking, smoking, or using toilet.

Other Precautions:

Check all containers for leaks.  
Avoid prolonged breathing or contact with skin.

Proprietary Ingredient – may be made available as provided in 29 CFR 1910.1200 (I).

Reportable under SARA Title III:

Chemical	Percentage	C.A.S. Number	313	Sections	
				302 (TPQ#)	304 (RQ#)
Xylene	12.5%	001330-68-8	Y		1000
n-Butyl Acetate	12.5%	000123-86-4	N		5000

AUTHORIZED SIGNATURE: R.A Rana \_\_\_\_\_ Chemist