

# MSDS

## Material Safety Data Sheet

March 7, 2005

Revision Date:

PRODUCT NAME: MONO-THANE™ SL

ITEM NUMBER: MT1

DESCRIPTION: MODIFIED POLYURETHANE JOINT SEALANT

HMIS CODES:	H.*	2	F:	2	R:	1	P:	C
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### SECTION I - IDENTIFICATION

MANUFACTURER'S NAME: Pacific Polymers International, Inc.

12271 Monarch Street, Garden Grove, CA 92841

Telephone: 714-898-0025

EMERGENCY PHONE NO: 800-424-9300 (CHEMTREC)

### SECTION II-HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS / CAS #	OSHA PEL	ACGIH TLV	OSHA STEL	LD50/LC50	WT %
Aromatic Polyurethane polymer # Mixture	No data available	No data available	No data available	No data available	25 – 40 %
Petroleum Naphtha Solvent (Aliphatic) #64742-88-7	100 ppm	100ppm/TWA`	150ppm	LD50: >25ml/kg (rat, oral); LC50:>710ppm(v) (rat) 4 hours (inhalation) LD50: 5ml/kg (rabbit, dermal)	<3.5 %
Residual trace amount of Toluene Diisocyanate # 26471-62-5	0.005ppm	0.005ppm	0.02 ppm	LD: >2g/kg (rat, dermal) LD: 5.8g/kg (oral, rat) LC: 10ppm/4hrs (mouse)	< 0.1 %
Petroleum aromatic oil #64742-04-7	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>		No data	15 – 30 %
Carbon Black #1333-86-4	3.5 mg/m <sup>3</sup>	3.5 mg/m <sup>3</sup>	No data		1 – 10 %

\*\*All Chemicals comprising this product are listed on the Toxic Substance Control Act (TSCA) inventory.\*\*

### SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	300°F – 550°F
Vapor Density	Greater than air
Specific Gravity (H2O=1)	1.20 – 1.24
Evaporation Rate	Less than 1.0 (butyl Acetate = 1.0)
Solubility in water	Reacts slowly
Appearance and odor	Black, Aromatic odor, VOC – less than 100 grams per liter.

### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point	Above 150°F
Flammable limits in air by volume	LEL: ND : UEL: ND
Extinguishing media	Dry chemical foam, carbon dioxide, halogenated agents. If water is used, use very large quantities. The reaction between water and hot isocyanate may be vigorous.
Special Firefighting Procedures	Wear self-contained breathing apparatus with full facepiece and protective clothing.
Unusual Fire and Explosion Hazards	Water contamination will produce carbon dioxide. Do not reseal contaminated containers as pressure buildup may result in rupturing of the container.

### SECTION V - REACTIVITY DATA

Stability	Stable under normal conditions.
Conditions to avoid	Avoid water contact, alcohol, amines, acids and alkalis.
Incompatibility (Materials to avoid)	This material will react with any materials containing active hydrogen group such as water, alcohol's, ammonia, amines, alkalis and acids.
Hazardous Decomposition or	Combustion products: carbon dioxide, carbon monoxide, and nitrogen oxides trace amounts of hydrogen

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Byproducts	cyanide.
Hazardous Polymerization	May occur. High temperatures in the presence of alkalis, amines, and metal compounds will accelerator polymerization. Possible evolution of carbon dioxide gas may rupture closed containers.

## **SECTION VI - HEALTH HAZARD DATA**

### **Health risks and symptoms of exposure**

Inhalation	Coughing, tightness in chest with difficulty in breathing, irritation to respiratory tract.
Skin Contact	Skin irritation, causing redness itching, rash.
Eye Contact	Irritation to eyes causing reddening and itching.
Skin Absorption	No data available
Ingestion	May cause irritation of the mouth, pharynx, esophagus and stomach.

**Medical conditions generally aggravated by exposure:** Prolonged and repeated exposure may result to respiratory sensitization, asthma like conditions, central nervous depression (dizziness, nausea, headache etc), skin sensitization and allergic skin reactions (rashes, hive-like, acme's, itching, etc.)

### **Emergency & First Aid Procedures**

Eyes	Immediately flush with plenty of water for at least 15 minutes. Keep eyelids open. Consult a physician immediately.
Skin	Wash material off with plenty of soap and water. If redness, itching or burning develops, consult a physician.
Inhalation	Remove person to fresh air. If not breathing, give artificial respiration. If breathing is labored, give oxygen. Get medical help immediately. Do not give any food or liquids to an unconscious person.
Ingestion	Give 1 or 2 glasses of water to drink. If gastrointestinal symptoms develop, get medical help immediately. (Do not give anything by mouth to an unconscious person).

## **SECTION VII - SAFE HANDLING & USE INFORMATION**

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Wear protective equipment and clothing during cleanup. Soak up material with absorbent and shovel into a chemical waste container. Cover the container but do not seal, and remove from work area. Use decontamination solution of 0.5% liquid detergent, 3 – 8 % concentrated ammonium hydroxide and remaining water. Clean the area off spill with the solution.

**WASTE DISPOSAL METHOD.** Neutralize the waste with the decontamination solution. Let it stand for 48 hours, allowing carbon dioxide to vent away. Dispose the waste in accordance to federal, local, and state regulations.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:** Prevent skin and eye contact. Avoid breathing vapors and mist. A sensitized person should not be allowed to exposed to the product. Store in tightly sealed containers to protect from atmospheric moisture. Store in dry area.

**OTHER PRECAUTIONS:** Individuals with existing respiratory disease such as chronic bronchitis, emphysema or asthma like conditions should not be exposed to polyurethane or related products. Do not drink, eat, or smoke while working with the product. Wash before such an activity. KEEP AWAY FROM CHILDREN. Keep away from ignition sources such as fire, flame, sparks etc.

## **SECTION VIII - CONTROL MEASURES/PROTECTION INFORMATION**

**RESPIRATORY PROTECTION:** Not required on normal use with good ventilation. If required by local rules and regulations, wear MSHA/NIOSH approved organic vapor or charcoal filtered cartridge respirator .

**VENTILATION:** local and or mechanical exhaust.

**PROTECTIVE GLOVES:** Nitrile, neoprene or butyl rubber gloves.

**EYE PROTECTION:** Chemical tight goggles, full faceshield in addition if splashing is possible.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT: WORK/HYGIENIC PRACTICES:** Tyvek, neoprene, butyl, nitrile rubber based clothing have excellent resistance to aromatic solvents and polyisocyanate based products. Provide eyewash station and safety showers in the work area. Provide emergency safety plans if regulations require. Give proper training of the usage and application of the products.

## **SECTION IX – REGULATORY INFORMATION**

**Transportation: DOT:** Non-Regulated;

**HMIS Ratings:** Health: 2; Flammability: 2; Reactivity: 1; Protection: C (gloves, goggles, coverall/apron)

**Disclaimer:** The data set forth in this MSDS are based on information provided by the suppliers of the raw materials and chemicals used in the manufacture of the aforementioned product. Pacific Polymers International, Inc. makes no warranty with respect to the accuracy of the information provided by their suppliers, and disclaims all liability of reliance thereof.