

# MSDS

## Material Safety Data Sheet

April 2006

Revised:

PRODUCT NAME: ELASTO-DECK™ BT (TYPE-1) (VOC)

ITEM NUMBER: EDBT-T1-VOC

DESCRIPTION: POLYURETHANE WATERPROOFING MEMBRANE (COMPLIANT)

HMIS CODES:	H.*	2	F:	2	R:	1	P:	G
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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 %
Aromatic Petroleum Naphtha # 64742-95-6	100 ppm	100ppm/ TWA	150ppm	LD50: 4.7g/kg (rat, dermal); LC50: >3370 ppm/8hrs (rat)	1 – 10 %
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)	10 – 20 %
*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)	< 0.18 %
Petroleum aromatic oil #64741-81-7	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 %

\*Indicates toxic chemical(s) subject to the reporting requirements of section 313 of titleIII and of 40 CFR 372.

\*\*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	insoluble
Appearance and odor	Black, Aromatic odor, solvent based coating. VOC – 200 grams per liter.

### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point	120°F (COC)
Flammable limits in air by volume	LEL: 0.7% : UEL: 6.0%
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 Byproducts	Combustion products: carbon dioxide, carbon monoxide, and nitrogen oxides trace amounts of hydrogen 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.

### **Health hazards (acute & chronic):**

CARCINOGENICITY: NTP? Yes ; IARC MONOGRAPHS: Yes; OSHA REGULATED: NO

\* This product contains petroleum Hydrocarbon oil and carbon black color pigment similar to ones categorized by international agency for research on cancer (IARC) as causing cancer in MICE after prolonged and repeated contact. Any potential hazard can be minimized by recommended protective equipment to avoid skin contact and by washing thoroughly after handling.

\*This product may contain trace amount of Toluene Diisocyanate (TDI). TDI is a material that may reasonably be anticipated to be a carcinogen based on a NTP technical report on rats. In the cited study, laboratory animals gavaged TDI in corn oil developed tumor.

**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 isocyanates 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:** Wear MSHA/NIOSH approved organic vapor or charcoal filtered cartridge respirator or positive pressure supplied air respirator with full facepiece or an air-supplied hood.

**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 Ground:** Non-Regulated; // **DOT Air:** Paint, Flammable Liquid, UN1263, Class 3, PG III, ERG 127; // **DOT Marine:** Paint, Flammable Liquid, UN1263, Class 3, PG III ERG 127.

**Sara Title III (Section 313 Toxic Chemical Information):**

<b><u>Chemical Name</u></b>	<b><u>CAS Number</u></b>	<b><u>Concentration</u></b>
Toluene Diisocyanate	26471-62-5	trace amount

**California Proposition 65:**

{The following detectable components of this product are substances, or belong to classes of substances, known to the state of California to cause cancer and /or reproductive toxicity.}

<b><u>Chemical Name</u></b>	<b><u>CAS Number</u></b>	<b><u>Concentration</u></b>
Toluene Diisocyanate	26471-62-5	trace amount
4-6 fused ring polynuclear aromatic hydrocarbon	N.av.	trace amount may be present in the Oil.

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

**WHMIS Rating (Canada):** Class B, Division 3, Class D, Division 2, Subdivision B.

**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.