

# SAFETY DATA SHEET

Date Prepared : 09/06/2017  
 MSDS No : PP ET200MM B  
 Date Revised : 09/06/2017  
 Revision No : 3

## PACIFIC POLYMERS Elasto-Thane 200 Machine Mix Component B

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** PACIFIC POLYMERS Elasto-Thane 200 Machine Mix Component B

#### MANUFACTURER

ITW Polymers Sealants North America  
 12271 Monarch St.  
 Garden Grove, CA 92841

**Product Stewardship:** (714) 898-0025

#### 24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC (US Transportation): (800) 424-9300

**COMMENTS:** PACIFIC POLYMERS and Elasto-Thane are a registered trademarks of Illinois Tool Works, Inc.

### 2. HAZARDS IDENTIFICATION

#### GHS CLASSIFICATIONS

##### Health:

Acute Toxicity (Inhalation), Category 4  
 Skin Irritation, Category 2  
 Eye Irritation, Category 2A  
 Respiratory Sensitization, Category 1  
 Skin Sensitization, Category 1  
 Mutagenicity, Category 1B  
 Carcinogenicity, Category 1B  
 Reproductive Toxicity, Category 2  
 Target Organ Toxicity (Single exposure), Category 3  
 Target Organ Toxicity (Repeated exposure), Category 2  
 Aspiration Hazard, Category 1

##### Environmental:

Acute Hazards to the Aquatic Environment, Category 2  
 Chronic Hazards to the Aquatic Environment, Category 2

#### GHS LABEL



Environment



Exclamation  
mark



Health  
hazard

**SIGNAL WORD:** DANGER

#### HAZARD STATEMENTS

H304: May be fatal if swallowed and enters airways.  
 H315: Causes skin irritation.  
 H317: May cause an allergic skin reaction.  
 H319: Causes serious eye irritation.  
 H332: Harmful if inhaled.  
 H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 H335: May cause respiratory irritation.  
 H336: May cause drowsiness or dizziness.

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H340: May cause genetic defects.  
 H350: May cause cancer.  
 H361: Suspected of damaging fertility or the unborn child.  
 H373: May cause damage to organs through prolonged or repeated exposure.  
 H401: Toxic to aquatic life.  
 H411: Toxic to aquatic life with long lasting effects.

### PRECAUTIONARY STATEMENT(S)

#### Prevention:

[201]: Obtain special instructions before use.  
 P202: Do not handle until all safety precautions have been read and understood.  
 P233: Keep container tightly closed.  
 P243: Take action to prevent static discharges.  
 P260: Do not breathe dust/fume/gas/mist/vapours/spray.  
 P264: Wash thoroughly after handling.  
 P271: Use only outdoors or in a well-ventilated area.  
 P272: Contaminated work clothing should not be allowed out of the workplace.  
 P273: Avoid release to the environment.  
 P280: Wear protective gloves/protective clothing/eye protection/face protection.  
 P284: [In case of inadequate ventilation] wear respiratory protection.

#### Response:

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
 P302+P352: IF ON SKIN: Wash with plenty of water.  
 P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
 P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P308+P313: IF exposed or concerned: Get medical advice/ attention.  
 P312: Call a POISON CENTER/doctor if you feel unwell.  
 P314: Get medical advice/attention if you feel unwell.  
 P331: Do NOT induce vomiting.  
 P332+P313: If skin irritation occurs: Get medical advice/attention.  
 P333+P313: If skin irritation or rash occurs: Get medical advice/attention.  
 P337+P313: If eye irritation persists: Get medical advice/attention.  
 P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER/doctor.  
 P362: Take off contaminated clothing.  
 P370+P378: In case of fire: Use appropriate media to extinguish.  
 P391: Collect spillage.

#### Storage:

P403+P233: Store in a well-ventilated place. Keep container tightly closed.  
 P403+P235: Store in a well-ventilated place. Keep cool.  
 P405: Store locked up.

#### Disposal:

P501: Dispose of contents/container according to local, regional, national, and international regulations.

### EMERGENCY OVERVIEW

**IMMEDIATE CONCERNS:** WARNING! Combustible liquid and vapor. Contains Toluene Diisocyanate (CAS No. 26741-62-5). May cause respiratory tract irritation. May cause allergic respiratory reaction. Harmful if inhaled.

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Respiratory sensitizer. May cause lung damage. Lung damage and respiratory sensitization may be permanent. May cause skin irritation. May cause allergic skin reaction. Skin sensitizer. TDI is included in the HTP Annual Report on Carcinogens. Preliminary results from a TDI health study indicate that overexposure to a respiratory irritant resulting on lower respiratory tract symptoms could increase the risks of developing asthma-like reactions from subsequent TDI exposure.

### POTENTIAL HEALTH EFFECTS

**EYES:** May cause eye irritation such as redness, tearing, and itching.

**SKIN:** May cause skin irritation upon contact. May cause allergic reaction in susceptible individuals.

**INGESTION:** May cause irritation of the mouth, pharynx, esophagus, and stomach. May cause gastrointestinal irritation, nausea and vomiting.

**INHALATION:** TDI vapors or mist concentration at or above the TLV can irritate (burning sensation) the mucous membrane in the respiratory tract causing runny nose, sore throat, coughing, chest discomfort, shortness of breath and reduced lung function. Persons with pre-existing non-specific bronchial hyper-reactivity can respond to concentrations well below the TLV with similar symptoms as well as asthma attacks. Exposure well above the TLV may lead to bronchitis, bronchial spasm, and pulmonary edema. These effects are usually reversible. Chemical or hypersensitive pneumonitis, with flu-like symptoms (e.g. fever, chills) has also been reported. These symptoms can be delayed up to several hours after exposure. As a result of previous repeated overexposure or a single large dose, certain individuals develop isocyanate sensitization (chemical asthma), which will cause them to react to a later exposure to isocyanate at levels well below the TLV. Similar to many non-specific asthmatic responses, there are reports that once sensitized an individual can experience these symptoms upon exposure to dust, cold air, or other irritants. This increase lung sensitivity can persist for weeks and in severe cases for several years. Overexposure to isocyanates has also been reported to cause lung damage (decrease in lung function), which may be permanent. Sensitization can be either temporary or permanent.

**ROUTES OF ENTRY:** Eye and Skin Contact, Inhalation and Ingestion

**IRRITANCY:** Eye and skin irritation.

**SENSITIZATION:** May cause allergic respiratory and skin reaction. Respiratory and skin sensitizer.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt. %	CAS
Distillate Aromatic Extract - Extracts (petroleum), Light Paraffinic Distillate Solvent	< 35	64742-05-8
Toluene Diisocyanate	< 0.3	26471-62-5

### 4. FIRST AID MEASURES

**EYES:** Immediately flush eyes with plenty of tempered water (at least 15-20 minutes) lifting upper and lower eye lids occasionally. Get immediate medical attention.

**SKIN:** Immediately flush skin with plenty of water. Remove clothing. Get medical attention immediately. Wash clothing separately before reuse. An TDI study has demonstrated that a polyglycol-based skin cleaner or corn oil may be more effective than soap and water.

**INGESTION:** If swallowed, do NOT induce vomiting. Give victim two glasses (16 ounces) of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

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**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention. Asthmatic type symptoms may develop and may be immediate or delayed up to several hours. Treatment is essentially symptomatic.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

**EYES:** Can cause stinging, watering, redness, and swelling.

**SKIN:** May cause skin irritation; itching, redness, rashes, hives, burning and swelling.

**INGESTION:** Ingestion of this material can cause mouth, throat, esophageal, and gastrointestinal tract irritation.

**INHALATION:** Review inhalation signs and symptoms of TDI under Potential Health Effects.

**NOTES TO PHYSICIAN:** Medical supervision of all employees who handle or come into contact with isocyanates is recommended. This should include pre-employment and periodic medical examinations with respiratory function tests (FEV, FVC as minimum). Persons with asthmatic type conditions, chronic bronchitis, other chronic respiratory diseases or recurrent skin eczema or sensitization should be excluded from working with TDI. Once a person is diagnosed as sensitized, no further exposure can be permitted.

## 5. FIRE FIGHTING MEASURES

**FLAMMABLE CLASS:** Class IIIB

**GENERAL HAZARD:** Combustible Liquid.

**EXTINGUISHING MEDIA:** Use dry chemical foam, carbon dioxide or dry chemical powder. If water is used is used, use very large quantities. The reaction between water and hot isocyanate can be vigorous.

**OTHER CONSIDERATIONS:** Diisocyanates reacts exothermically with water, which may create excessive pressure in containers.

**EXPLOSION HAZARDS:** Water contamination will produce carbon dioxide. Do not reseal contaminated containers as pressure build-up may result in rupturing of the container. Empty containers may contain product residue which can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind or expose to heat, flame, sparks, static electricity or other ignition sources.

**FIRE FIGHTING PROCEDURES:** As in any fire, wear self-contained breathing apparatus with pressure-demand, full face piece SCBA (MSHA/NIOSH approved or equivalent) and full protective gear. Use water to cool containers exposed to fire.

**SENSITIVE TO STATIC DISCHARGE:** Not Applicable

**SENSITIVITY TO IMPACT:** None known.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon Dioxide, Carbon Monoxide, Nitrogen Oxide, Isocyanate Vapors and Mist, Traces of HCN.

## 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Absorb the isocyanate with sawdust or other absorbent and shovel into open top containers. Do not make containers pressure tight. Transport to a well ventilated area, preferably outside, and treat with neutralizing solution consisting of a mixture of 90% water, 8% concentrated ammonium hydroxide or sodium carbonate, and 2% liquid detergent. Add about 10 parts of neutralizer per part of isocyanate by mixing. Allow to stand for 48 hours, allowing evolved carbon dioxide to escape.

**LARGE SPILL:** Keep spectators away. Only those persons who are adequately trained, authorized and wearing the required personal protective equipment (PPE) should participate in spill response and clean-up. Know and prepare for spill response before using or handling this product. Dike and contain spill with inert material (e.g. sand, earth). Transfer liquids to covered and labeled containers for disposal. Use appropriate PPE. Place

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absorbent diking materials in covered containers for disposal. Prevent contamination of sewers, streams, and groundwater with spilled material or used absorbent.

If temporary control of isocyanate vapor is required, a blanket of protein foam (available at most Fire Departments) may be placed over the spill.

### 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** For professional or industrial use only. Follow label instructions. Keep out of the reach of children. Not for consumption. No smoking. Do not breathe vapors. Avoid contact with body. Empty containers must not be washed and re-used for any purpose. Contact lens wearers must wear protective eye wear around chemical vapors and liquid. Wash hands thoroughly after handling. To prevent build-up of vapors, use adequate natural and/or mechanical ventilation (e.g. open all windows and doors to achieve cross ventilation).

**HANDLING:** Follow all SDS/label precautions even after container is emptied because they may retain product residues. Containers should be tightly closed to prevent contamination with foreign materials and moisture. Open containers should be used within a day or two to prevent the product from skinning. Employee education and training in the safe handling of this product are required under the Federal OSHA Hazard Communication Standard. Avoid contact of liquid with eyes and prolonged skin exposure.

**STORAGE:** Keep container closed when not in use. Store in a dry, well ventilated area, out of the sun and away from ignition sources. Do not remove or deface label. Prevent water or moist air from entering container.

**STORAGE TEMPERATURE:** 15.5°C (60.0°F) Minimum to 29.4°C (85.0°F) Maximum

**SHELF LIFE:** 1 year from manufacture date

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)				
Chemical Name	Type		EXPOSURE LIMITS	
			ppm	mg/m <sup>3</sup>
Distillate Aromatic Extract - Extracts (petroleum), Light Paraffinic Distillate Solvent	OSHA PEL	TWA	NL [1]	NL [1]
		STEL	NL [1]	NL [1]
	ACGIH TLV	TWA	NL [1]	0.2 mg/m <sup>3</sup> [1]
		STEL	NL [1]	NL [1]
Toluene Diisocyanate	OSHA PEL	TWA	0.005 ppm	0.04 mg/m <sup>3</sup>
		STEL	0.02 ppm	0.15 mg/m <sup>3</sup>
	ACGIH TLV	TWA	0.005 ppm [1]	NL [1]
		STEL	0.02 ppm [1]	NL [1]

**Footnotes:**  
 1. NL = Not Listed

**ENGINEERING CONTROLS:** Local exhaust ventilation or other engineering controls are recommended to

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maintain levels below the TLV whenever TDI is processed, heated or spray applied. For spray applications, an air-supplied respirator must be worn. Standard reference sources regarding industrial ventilation (i.e. ACGIH Industrial Ventilation) should be consulted for guidance about proper ventilation.

### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Wear safety glasses with side shields, goggles, or a full-face shield. Do not wear contact lenses.

**SKIN:** Wear chemical resistant gloves such as nitrile, neoprene or butyl rubber. Wear chemical protective clothing & boots to prevent repeated or prolonged skin contact.

**RESPIRATORY:** Where vapor concentrations exceed or are likely to exceed the occupational exposure limits, a NIOSH approved continuous flow supplied air respirator, hood or helmet is recommended. A NIOSH approved self-contained positive pressure breathing apparatus with full face piece is required for spills and/or emergencies. TDI has poor warning properties, since the concentration at which TDI can be smelled is substantially higher than the maximum exposure limit. A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

**WORK HYGIENIC PRACTICES:** Use good hygiene practices when handling this material. Wash hands thoroughly after use.

**OTHER USE PRECAUTIONS:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Liquid

**ODOR:** Mild aromatic solvent odor

**COLOR:** Yellowish to slight black

**pH:** Not Determined

**PERCENT VOLATILE:** 6

**Notes:** +/- 2% by weight

**FLASHPOINT AND METHOD:** > 121.11°C (250°F) Pensky-Martens CC

**FLAMMABLE LIMITS:** Not Determined

**AUTOIGNITION TEMPERATURE:** Not Applicable

**VAPOR PRESSURE:** Not Determined

**VAPOR DENSITY:** > 1 (Air=1)

**BOILING POINT:** > 148.8°C (300°F)

**FREEZING POINT:** Not Determined

**MELTING POINT:** Not Determined

**POUR POINT:** Not Determined

**SOLUBILITY IN WATER:** Reacts with water

**PARTITION COEFFICIENT: N-OCTANOL/WATER:** Not Determined

**EVAPORATION RATE:** < 1.0 (n-Butyl Acetate=1)

**DENSITY:** 8.54 lbs/gal

**PARTICLE SIZE:** Not Determined

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**SPECIFIC GRAVITY:** 1.02 to 1.03  
**VISCOSITY #1:** 4000 cps at (75.0°F)  
**MOLECULAR WEIGHT:** Not Determined  
**(VOC):** 69 gr/L EPA Method 24 VOC  
**OXIDIZING PROPERTIES:** Not Determined

### 10. STABILITY AND REACTIVITY

**REACTIVITY:** Yes  
**HAZARDOUS POLYMERIZATION:** Product will not undergo polymerization.  
**STABILITY:** Stable.  
**CONDITIONS TO AVOID:** Avoid contact with water, alcohol, amines, acids and alkalis. Avoid high temperature.  
**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide, carbon dioxide, nitrogen oxide, isocyanate vapors and mist, traces of HCN.  
**INCOMPATIBLE MATERIALS:** Reacts with water, with the formation of carbon dioxide. Risk of bursting. Reacts with alcohols, acids, alkalies, and amines. Risk of exothermic reaction. Risk of violent reaction.

### 11. TOXICOLOGICAL INFORMATION

#### ACUTE TOXICITY

Chemical Name	ORAL LD <sub>50</sub> (rat)	DERMAL LD <sub>50</sub> (rabbit)	INHALATION LC <sub>50</sub> (rat)
Distillate Aromatic Extract - Extracts (petroleum), Light Paraffinic Distillate Solvent	No data	No data	No data
Toluene Diisocyanate	4130 to 5110 mg/kg (rats)	> 9400 mg/kg (rabbits)	49 to 5034 ppm (4-hr dose - rat)

**SERIOUS EYE DAMAGE/IRRITATION:** Mild to moderate eyes and skin irritation.

**RESPIRATORY OR SKIN SENSITISATION:** Respiratory and Skin Sensitizer

#### CARCINOGENICITY

Chemical Name	NTP Status	IARC Status
Toluene Diisocyanate	2	2B

### 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** This product contains components that may be harmful to aquatic organisms and may cause long term adverse effects in the aquatic environment.

**ECOTOXICOLOGICAL INFORMATION:** Contains components that are potentially toxic to freshwater and saltwater ecosystems.

**BIOACCUMULATION/ACCUMULATION:** Contains components with the potential to bio-accumulate.

### 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Dispose of in accordance with all local, state and federal regulations.

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### 14. TRANSPORT INFORMATION

#### DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Not Regulated

### 15. REGULATORY INFORMATION

#### UNITED STATES

#### SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

FIRE: No PRESSURE GENERATING: No REACTIVITY: Yes ACUTE: Yes CHRONIC: Yes

#### EPCRA SECTION 313 SUPPLIER NOTIFICATION

Chemical Name	Wt. %	CAS
Toluene Diisocyanate	< 0.3	26471-62-5

#### CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

Chemical Name	Wt. %	CERCLA RQ
Toluene Diisocyanate	< 0.3	100

#### TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
Distillate Aromatic Extract - Extracts (petroleum), Light Paraffinic Distillate Solvent	64742-05-8
Toluene Diisocyanate	26471-62-5

#### CLEAN AIR ACT

Chemical Name	Wt. %	CAS
Toluene Diisocyanate	< 0.3	26471-62-5

#### STATES WITH SPECIAL REQUIREMENTS

Chemical Name	Requirements
Toluene Diisocyanate	Massachusetts Right to Know List New Jersey Right to Know List Pennsylvania Right to Know List

#### CALIFORNIA PROPOSITION 65

Chemical Name	Wt. %	Listed
Toluene Diisocyanate	< 0.3	Cancer

#### CANADA

#### WHMIS HAZARD SYMBOL AND CLASSIFICATION



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Toxic

Combustible  
Liquid

### 16. OTHER INFORMATION

Date Revised: 09/06/2017

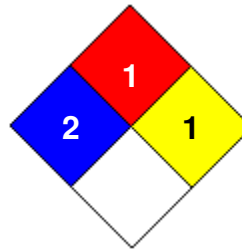
INFORMATION CONTACT: (714) 898-0025

REVISION SUMMARY: This MSDS replaces the 04/28/2015 MSDS. Revised: **Section 1:** Date Issued.

#### HMIS RATING

HEALTH	*	2
FLAMMABILITY		1
PHYSICAL HAZARD		1
PERSONAL PROTECTION		B

#### NFPA CODES



**GENERAL STATEMENTS:** Keep out of reach of children  
 For professional or industrial use only

**MANUFACTURER DISCLAIMER:** This document may be used to comply with OSHA's Hazardous Communication Standard, 29 CFR 1910.1200.

To the best of our knowledge, the information contained in this SDS is accurate. It is intended to assist the user in his/her evaluation of the product's hazards and safety precautions to be taken in its use. The data in this SDS relate only to the specific material designated herein. We do not assume liability for the use of, or reliance on this information, nor do we guarantee its accuracy or completeness.

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