



## Pacific Polymers

A Division of **ITW**

12271 Monarch Street  
Garden Grove, CA 92841  
(800) 888-8340

# MATERIAL SAFETY DATA SHEET

NAME OF PRODUCT: ELASTO-THANE 230

MSDS DATE: 05/22/2009

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ELASTO-THANE 230  
PRODUCT CODES: ET 230

MANUFACTURER: PACIFIC POLYMERS  
DIVISION: A DIVISION OF *ITW*  
ADDRESS: 12271 MONARCH STREET, GARDEN GROVE, CA 92841  
INFORMATION PHONE: 714-898-0025  
FAX NUMBER: 714-898-5687

EMERGENCY PHONE: 1-800-424-9300 CHEMTREC

CHEMICAL FAMILY: POLYURETHANE

PRODUCT USE: One part Polyurethane Sealant  
PREPARED BY: Pacific Polymers

## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Components</u>	<u>CAS #</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>Other Limits</u>	<u>Percent (wt.)</u>
Butyl Benzyl Phthalate	85-68-7	5 mg/m3	5 mg/m3		4 – 20%
Toluene	108-88-3	200ppm (TWA)	50ppm (TWA)	188mg/m3 (TWA)	< 3%

## SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Caution! Use with adequate ventilation. Avoid skin and eye contact. Avoid ingestion.

ROUTES OF ENTRY: Inhalation: Yes ; Skin: Yes; Ingestion: Not likely

### POTENTIAL HEALTH EFFECTS

EYES: Contact with eyes may cause irritation causing redness and tearing.

SKIN: Contact with skin may cause skin irritation. Upon exposure, skin may turn red and burn.

INGESTION: Not likely to ingest. If ingested, possible irritation to mouth.

INHALATION: Inhalation may cause respiratory tract irritation. Inhalation of solvent in the product may result to shortness of breath, light headache and nausea.

HEALTH HAZARDS (ACUTE & CHRONIC): Like all polyurethane sealants, this product contains reacted isocyanate plus polyol resin which may cause irritation to the eyes or skin on contact. Tests have shown that no volatile isocyanates are present. Small amount of residual toluene present in the product may cause skin and respiratory tract irritation.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: This product may be irritating to individuals with known allergies.

### CARCINOGENICITY

NTP? No

IARC MONOGRAPHS? No

OSHA REGULATED? Yes

## SECTION 4: FIRST AID MEASURES

EYES: Immediately flush with plenty of water for at least 15 minutes. Keep eyelids open. Consult a physician immediately.

SKIN: Remove contaminated clothing .Wash material off with plenty of soap and water. If redness, itching or burning develops, consult a physician. Wash contaminated clothing before reuse.

INGESTION: Do not induce vomiting unless advised by a physician. Call nearest Poison Control Center or Physician immediately. If conscious, drink plenty of water. If person vomits, place him/her in the recovery position. Never give anything by mouth to an unconscious person.



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INHALATION: Remove victim from exposure to fresh air. If difficulty with breathing, administer oxygen or artificial respiration. Trained personnel should be available at the site to help proper care. Seek medical attention.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: N/A

### SECTION 5: FIRE-FIGHTING MEASURES

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FLAMMABLE LIMITS IN AIR, UPPER: N/A  
(% BY VOLUME) LOWER: N/A

FLASH POINT:

F: 136<sup>o</sup>F

C: 57.77<sup>o</sup>C

METHOD USED: ASTM D56 (Tag Closed Cup)

AUTOIGNITION TEMPERATURE: N/A

HMS HAZARD CLASSIFICATION

HEALTH: 1 FLAMMABILITY: 2 REACTIVITY: 0  
PROTECTION: G

EXTINGUISHING MEDIA: Use carbon dioxide, dry chemical, foam, or water spray

SPECIAL FIRE FIGHTING PROCEDURES: Fire Fighters should wear full emergency equipment with self-contained breathing apparatus. Irritating or toxic gasses may build up and possibly explode.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Overheated, closed containers adjacent to fire can cause the materials inside to decompose resulting in pressure buildup and possible explosion.

HAZARDOUS DECOMPOSITION PRODUCTS: In case of fire, carbon dioxide, carbon monoxide, oxides of nitrogen and traces of isocyanates may form.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

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ACCIDENTAL RELEASE MEASURES: Eliminate all ignition sources. Ventilate the area. Supply clean-up personnel with appropriate clothing and equipment such as respirator, gloves, coveralls etc.). Collect the product into a waste container. Clean the wet spots using friendly solvents such mineral spirit. If the material has cured, and is free of solvent vapors, cut into small pieces and collect the solid in the waste container. Use of soap water to cut the cured material can be useful.

### SECTION 7: HANDLING AND STORAGE

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HANDLING AND STORAGE: Handle with caution. Do not use around ignition sources such as fire, sparks, flame etc. DO not smoke during application. Store the product in a cool dry place. Suggested suitable storage for better and longer shelf life of the product is below 80<sup>o</sup>F and 50% R.H.

OTHER PRECAUTIONS: Avoid moisture contamination. Product is sensitive to moisture. Contact with moisture or storing the product in very high humid condition can result the product to lose shelf life and can cause the product to cure.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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VENTILATION: Local Exhaust: If needed

Mechanical: If needed

RESPIRATORY PROTECTION: Not normally required for properly ventilated areas. Respiratory protection should be considered for exposures resulting from unusual applications and/or used in non-ventilated enclosed areas. If this occurs, wear NIOSH/MSHA approved self-contained breathing apparatus or cartridge type respirator.

EYE PROTECTION: Safety Glasses

SKIN PROTECTION: Chemical resistant, impervious



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OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Use a chemical apron to protect clothing if needed.

WORK HYGIENIC PRACTICES: Always wash hands after working with the product. Use good hygiene practices.

#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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APPEARANCE: pigmented – comes in various standard colors company supplies.

ODOR: Mild aromatic odor

PHYSICAL STATE: Non-Sag Sealant, pumpable product

pH AS SUPPLIED: N/A

BOILING POINT: N/A

MELTING POINT: N/A

FREEZING POINT: N/A – For easy application polyurethane products stored above 65°F and below 80°F is idle.

VAPOR PRESSURE (mmHg): N/A

VAPOR DENSITY (AIR = 1): N/A

SPECIFIC GRAVITY (H<sub>2</sub>O = 1): 1.61

EVAPORATION RATE: N/A

Non-Volatile (% Weight): > 97%

Volatile Organic Content: 0.40 lb/gal (48 grams per liter)

SOLUBILITY IN WATER: will react slowly with water

VISCOSITY: Non-Sag paste Consistency

#### SECTION 10: STABILITY AND REACTIVITY

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STABILITY: Stable

CONDITIONS TO AVOID (STABILITY): Material will start to cure in the presence of humid air or moisture.

INCOMPATIBILITY (MATERIAL TO AVOID): Avoid contact with alcohols, amines, Strong bases and surface active materials.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: IN case of fire, product may form oxides of carbon and nitrogen. Small traces of isocyanate may form.

HAZARDOUS POLYMERIZATION: Will not occur when stored under proper conditions.

CONDITIONS TO AVOID (POLYMERIZATION): Avoid moisture contamination and high heat.

#### SECTION 11: TOXICOLOGICAL INFORMATION

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TOXICOLOGICAL INFORMATION:

No Data

#### SECTION 12: ECOLOGICAL INFORMATION

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ECOLOGICAL INFORMATION: NO Data

#### SECTION 13: DISPOSAL CONSIDERATIONS

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WASTE DISPOSAL METHOD: Cured or neutralized waste product can be land filled or incinerated. Consult and follow all local, state and federal compliance regulations and rules before disposing the waste product.

#### SECTION 14: TRANSPORT INFORMATION

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Ground Transportation: Not Regulated



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#### WATER TRANSPORTATION

PROPER SHIPPING NAME:  
HAZARD CLASS:  
ID NUMBER:  
PACKING GROUP:  
LABEL STATEMENTS:

#### AIR TRANSPORTATION

PROPER SHIPPING NAME:  
HAZARD CLASS:  
ID NUMBER:  
PACKING GROUP:  
LABEL STATEMENTS:

#### SECTION 15: REGULATORY INFORMATION

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##### U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): All raw materials use for the product are listed in TSCA inventory.

311/312 HAZARD CATEGORIES: skin irritant, eye irritant

313 REPORTABLE INGREDIENTS: Pursuant to section 313 of SARA Title III, this product contains one or more chemicals that are present in a concentration in excess of 1 percent of the mixture (0.1 %, if the listed chemical is a carcinogen): TOLUENE

STATE REGULATIONS: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

##### INTERNATIONAL REGULATIONS: (EU)



Hazard Symbol:

Irritant, harmful, sensitizing

Risk Phrases: R36/37/38 – Irritating to eyes, respiratory system, and skin  
R20/22 – harmful by inhalation and if swallowed

Safety Phrases: S2 – Keep out of the reach of children  
S3 – Keep in a cool place  
S16 – Keep away from sources of ignition  
S20/21 – When using do not eat, drink or smoke  
S24/25 – Avoid contact with skin and eyes  
S38 – In case of insufficient ventilation, wear suitable respiratory equipment.

Product Use: Industrial/Commercial/ Residential Polyurethane Caulking.

#### SECTION 16: OTHER INFORMATION

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**PREPARATION INFORMATION: May 22, 2009**

##### DISCLAIMER:

*A MSDS such as this cannot be expected to cover all possible individual situations. The end user of this product has the responsibility to provide a safe workplace. All aspects of an individual operation should be examined to determine if, or where, precautions – in addition to those described herein – are required. Any health and safety information contained herein should be passed on to your customers and/or employees.*

*The opinions expressed herein are those of qualified experts within Pacific Polymers. We believe that the information contained herein is current as of the date of this Material Safety Data Sheet. Since the use of this information and the use of this product are not within the control of Pacific Polymers final determination of suitability of this product is the sole responsibility of the user. It is the responsibility of the user to comply with all applicable Federal, State and Local laws and regulations.*