

## 1. Identification of the Preparation and Company

Trade Name: **Poly PT Flex Liquid Rubber Part B**  
 Product Code: PTFLEX20B, PTFLEX50B, PTFLEX60B, PTFLEX70B, PTFLEX85B  
 Use of Preparation: Part B of two-part liquid polyurethane rubber  
 Chemical Class: Polyether polyol and organic mercury compound  
 Company: Polytek Development Corp.  
 55 Hilton St.  
 Easton, PA 18042 USA  
 Telephone: 610-559-8620  
[csalisbury@polytek.com](mailto:csalisbury@polytek.com)  
 EU Only Representative: Stewardship Solutions  
 Green Lowe Farm, Shawclough Rd  
 Waterfoot, Rossendale, Lancs.BB4 9SA, UK  
 Telephone: (+44) 01706 220901  
 Emergency Telephone: 610-559-8620 (9 am to 5 pm EST)

## 2. Hazards Identification

HAZARD CLASSIFICATION: Harmful, Xn  
 R33 – Danger of cumulative effects  
 R36 – Irritating to eyes.  
 R48/22 – Harmful: danger of serious damage to health by prolonged exposure if swallowed.



## 3. Composition/Information on Ingredients

Chemical Name	CAS Number/ EINECS Number	% of Product	Hazard Classification
Mercury, organic compound, Index No. 080-004-00-7	Proprietary	0 – 0.5	Xn, N R20/21/22-33 – 50/53
Aromatic diamine	Proprietary	0 - 15	Xn, N R: 21/22-36-48/22-50/53
Poly (oxyalkylene) polyol	Not Dangerous according to 67/548/EEC		
Aliphatic acid ester	Not Dangerous according to 67/548/EEC		

## 4. First-Aid Measures

EYE CONTACT: Immediately flush with copious amount of water for 15 minutes. Seek medical attention if symptoms persist.  
 SKIN CONTACT: Wipe off. Remove contaminated clothing and/or shoes. Wash with polyglycol-based cleanser or soap and warm water.  
 INHALATION: Remove to fresh air. Perform artificial respiration if necessary. Qualified medical personnel may administer oxygen. Seek medical attention if symptoms persist.  
 INGESTION: Seek medical attention. Do not induce vomiting unless so directed by a medical professional.

## 5. Fire-Fighting Measures

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, or water fog or fine spray.

THERMAL DECOMPOSITION PRODUCTS: May include carbon monoxide, carbon dioxide, mercury compounds and organic acids.

OTHER INFORMATION: Firefighters wear full-face positive pressure breathing apparatus and full chemical protective suit. Violent steam generation or eruption may occur upon application of water stream to hot product.

## 6. Accidental Release Measures

Clear non-emergency personnel from the area. Avoid contact with sources of ignition. Spill response personnel wear protective clothing to prevent eye and skin contact (see Section 8). Contain spill to minimize environmental contamination. Absorb spilled material with an absorbent such as sand or earth. Collect and containerize material. Dispose of contaminated materials as hazardous waste in accordance with applicable regulations.

## 7. Handling and Storage

HANDLING: Use in adequately ventilated area. Avoid contact with eyes, skin and clothing. Do not eat, drink or smoke in work area. Wash hands after handling. See also Section 8 of MSDS.  
 STORAGE: Store at room temperature in a dry, well-ventilated area. Do not store above 40°C. Store in tightly closed container.

## 8. Exposure Controls/Personal Protection

ENGINEERING CONTROLS: Provide general and/or local exhaust to maintain airborne concentrations below exposure limits.

MAXIMUM AIRBORNE EXPOSURE LIMITS (UK):

8-Hour TWA:	0.05 mg/m <sup>3</sup> (Mercury metal)
15-Min. STEL:	0.15 mg/m <sup>3</sup> (Mercury metal)

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: Since product is used with Poly Plast-Flex Part A, maintain airborne concentrations below established limits for Part A and Part B through ventilation and procedural controls. If air concentrations may exceed exposure limits, use a respirator equipped with organic vapor cartridges and particulate filters. If concentrations are unknown or in emergencies, use positive-pressure air-supplied respirator.

HAND: Wear chemical-resistant gloves (such as butyl, nitrile or latex rubber).

EYES: Wear chemical safety glasses or goggles.

SKIN: Wear chemical-resistant apron. Remove contaminated clothing immediately.

## 9. Physical & Chemical Properties

APPEARANCE: Clear Amber liquid, except PT Flex 20B is tan, opaque liquid

ODOUR: Polyol or amine odour

pH: Not applicable

BOILING POINT: >200 °C (estimated)

FLASH POINT: >200 °C (estimated)

AUTOFLAMMABILITY: No data available

EXPLOSIVE PROPERTIES: Not explosive

OXIDISING PROPERTIES: Not an oxidizer

VAPOUR PRESSURE: <0.1 mm Hg @ 20 °C

RELATIVE VAPOUR DENSITY (Air=1): Not determined

SPECIFIC GRAVITY: 1.0 @ 25°C  
SOLUBILITY IN WATER: Slight  
SOLUBILITY IN SOLVENT: Soluble in alcohols

## 10. Stability and Reactivity

CHEMICAL STABILITY: Stable under recommended storage conditions.  
CONDITIONS TO AVOID: Temperatures <24 °C and >40 °C. Avoid moisture.  
INCOMPATIBILITIES: Avoid contact with oxidizers, acids and isocyanates.  
HAZARDOUS DECOMPOSITION PRODUCTS: Depends on temperature, air supply and presence of other materials: may include carbon monoxide, carbon dioxide, mercury compounds and organic acids.

## 11. Toxicological Information

SKIN: Harmful in contact with skin.  
EYES: Contact may cause eye irritation.  
INHALATION: Harmful by inhalation. At room temperature, vapors are minimal due to low volatility. Heating or spraying may cause vapor or aerosols in sufficient concentration to cause respiratory irritation.  
INGESTION: Harmful if swallowed.  
CHRONIC EFFECTS: Contains <1.0% of an aryl mercury compound. Long-term overexposure to mercury has been associated with central nervous system and kidney disorders. Danger of cumulative effects. Prolonged skin contact may cause irritation and dermatitis  
CARCINOGENICITY: Not expected to be carcinogenic.  
DEVELOPMENTAL TOXICITY: Not fully determined.

## 12. Ecological Information

ECOTOXICITY: No formal data is available; but product should not be allowed to enter watercourses based on data available for mercury compounds.

## 13. Disposal Considerations

Dispose according to local and national regulations.

## 14. Transport Information

### For PT Flex 20B, PT Flex 50B, & PT Flex 60B

Not Hazardous Materials for shipping purposes.  
UN NUMBER: Not applicable;  
SHIPPING NAME: Not applicable

### For PT Flex 70B, & PT Flex 85B

Not Hazardous Materials for shipping in the U.S. per 49 CFR 171; however, is regulated for transport per IMDG Code.  
UN NUMBER: UN3082  
SHIPPING NAME: Environmentally hazardous substance, liquid, n.o.s. (aromatic amine), 9, UN 3082, PG III, Marine Pollutant

## 15. Regulatory Information

HAZARD SYMBOL: Harmful, Xn  
RISK PHRASES:

R33 – Danger of cumulative effects  
R36 - Irritating to eyes.  
R48/22 - Harmful: danger of serious damage to health by prolonged exposure if swallowed.

### SAFETY PHRASES:

S24/25 – Avoid contact with the skin and eyes  
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice  
S28 -After contact with skin, wash immediately with water or industrial hand cleaner  
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show label where possible)

### OTHER PHRASES:

Keep containers tightly closed when not in use

REACH: Substances in this formulation for which export is >1 tonne/yr to EU were pre-registered with ECHA prior to Dec. 1, 2008.

## 16. Other Information

RISK PHRASES: Only R33-36-48/22 applies to this product; but all R phrases for hazardous constituent are listed below:

R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed  
R21/22 - Harmful in contact with skin and if swallowed.  
R33 - Danger of cumulative effects  
R36 - Irritating to eyes.  
R48/22 - Harmful: danger of serious damage to health by prolonged exposure if swallowed.  
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

TRAINING ADVICE: All personnel using/handling this product should be trained in proper chemical handling and the need for and use of control measures including protective equipment.

RECOMMENDED USES AND RESTRICTIONS: This product is intended for industrial use only. Further details of intended applications and guidance relating to technical aspects of use are contained in the relevant Technical Bulletin/Advice sheet.

### REFERENCES:

Manufacturers' SDSs and Technical Bulletins

REVISION INDICATOR: First EU version.

DISCLAIMER: The information contained herein has been compiled from data that is, to the best of our knowledge, valid at the date of issue. However, as the conditions under which the product is used are not under our control, the user is responsible to ensure that a risk assessment is undertaken in accordance with current legislation and that all necessary precautions are employed.