

1. Identification

Product Identifier: **PT Flex 50 Liquid Rubber Part B**
PT Flex 60 Liquid Rubber Part B
PT Flex 70 Liquid Rubber Part B
PT Flex 85 Liquid Rubber Part B

Product Code(s): PTFLEX50B, PTFLEX60B, PTFLEX70B, PTFLEX85B

Use: Component for Liquid Polyurethane Casting Rubber. For Industrial/Professional use only.

Manufacturer: Polytek Development Corp.
 55 Hilton St., Easton, PA 18042

Phone Number: 610-559-8620 (9 a.m. to 5 p.m. EST)

Emergency Phone: CHEMTREC 800-424-9300 or +1 (703) 527-3887

E-mail: sds@polytek.com

2. Hazards Identification

GHS Classification:

Skin Sensitizer Category 1
 Hazardous to the Aquatic Environment – Acute Hazard Category 2
 Hazardous to the Aquatic Environment – Long-Term Hazard Category 2

Label Elements: Warning



Contains dimethylthiotoluenediamine.

Hazard Phrases

H317 May cause an allergic skin reaction.
 H401/411 Toxic to aquatic life with long-lasting effects.

Precautionary Phrases

P261 Avoid breathing vapors/spray.
 P272 Contaminated work clothing should not be allowed out of the work area.
 P273 Avoid release to the environment.
 P280 Wear protective gloves and eye protection.
 P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
 P333 + P313 If skin irritation or rash occurs: Get medical advice or attention.
 P391 Collect spillage.
 P501 Dispose of contents and container in accordance with local, regional and national regulations.

Supplemental Information: May cause eye and skin irritation. This is one part of a two-part system. Read and understand the hazard information on Part A before using.

3. Composition/Information on Ingredients

Chemical Name	CAS #	GHS Classification	%
Dimethylthiotoluenediamine	106264-79-3	Acute Tox – Oral 4 Skin Sensitizer 1 Aquatic Tox Acute 1 Aquatic Tox Chronic 1	5-15
Exact concentrations are withheld as trade secret. Other ingredients are not classified as health, physical or environmental hazards, or are present below cut-off/concentration limits.			

4. First-Aid Measures

Eye Contact: Rinse thoroughly with water, holding the eyelids open to be sure the material is washed out. Remove contact lenses if safe and easy to do. Continue rinsing. Get medical attention if irritation persists.

Skin Contact: Remove contaminated clothing. Wash contact area thoroughly with soap and water. Get medical attention if irritation persists.

Inhalation: Remove person to fresh air. Get medical attention if symptoms persist.

Ingestion: Do not induce vomiting unless directed to do so by medical personnel. Get medical attention.

Most Important Symptoms/Effects: May cause an allergic skin reaction.

Indication of Immediate Medical Attention/Special Treatment: If product gets in eyes, immediately flush with water.

5. Fire-Fighting Measures

Extinguishing Media: Use water fog, foam, carbon dioxide or dry chemical. Do not use solid water stream. Solid stream of water into hot product may cause violent steam generation or eruption.

Specific Hazards: Not classified as flammable or combustible. Product will burn under fire conditions. Combustion products include oxides of carbon and nitrogen, oxides of sulfur, sulfuric acid, organic acids, and other toxic organic compounds.

Special Protective Equipment & Precautions for Fire-Fighters: Wear positive pressure, self-contained breathing apparatus and full-body protective clothing. Cool fire-exposed containers with water.

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: Remove all ignition sources. Clear non-emergency personnel from the area. Wear appropriate protective clothing to prevent eye and skin contact and avoid breathing vapors. Caution – spill area may be slippery.

Methods and Materials for Containment and Cleanup: Cover with an inert absorbent material and collect into an appropriate container for disposal. Avoid releases to the environment. Report spills and releases as required to appropriate authorities.

7. Handling and Storage

Safe Handling: Use with adequate ventilation. Avoid contact with the eyes, skin and clothing. Wash thoroughly after handling. Do not eat, drink or smoke in the work area. Keep container closed when not in use.

Safe Storage: Store indoors at 60 to 95°F (15-35°C). Store in original containers. Avoid getting moisture into containers. Keep containers tightly closed.

8. Exposure Controls/Personal Protection

Occupational Exposure Limits: None apply.

Ventilation: Use with adequate general or local exhaust ventilation to minimize exposure.

Respiratory Protection: If ventilation is inadequate/poor, use a NIOSH-approved respirator with organic vapor cartridges. Respirator selection and use should be based on contaminant type, form and concentration. For higher exposures or in an emergency, use a supplied-air respirator.

Skin Protection: Wear impervious gloves, such as butyl rubber or nitrile rubber.

Eye Protection: Wear chemical safety glasses or goggles.

Other Protective Measures: Wear impervious clothing to prevent skin contact and contamination of personal clothing. An eye wash facility and

washing facility should be available in the work area. Follow applicable regulations and good Industrial Hygiene practice.

9. Physical and Chemical Properties

Appearance: Clear amber liquids
Odor: No data available
Odor Threshold: No data available
pH: Not applicable
Melting Point: No data available
Boiling Point: No data available
Flash Point: >176°C (350°F)
Evap. Rate: No data available
Upper/Lower Flammability Limits: No data available
Vapor Pressure: <0.01 mm Hg @ 25°C
Vapor Density: No data available
Relative Density: 1.0-1.1 @ 25°C
Solubility: Slightly soluble in water
Partition Coefficient: n-octanol/Water: No data available
Auto-Ignition Temp: No data available
Decomposition Temp: No data available
Viscosity: 500-1,500 cP @ 25°C

10. Stability and Reactivity

Reactivity: Not normally reactive.
Chemical Stability: Stable under recommended conditions.
Possibility of Hazardous Reactions: None known.
Conditions to Avoid: Avoid excessive heat and exposure to sunlight. Avoid moisture.
Incompatible Materials: Avoid contact with strong acids and strong oxidizing agents.
Hazardous Decomposition Products: Thermal decomposition will generate oxides of carbon and nitrogen, oxides of sulfur, organic acids and/or other toxic organic compounds.

11. Toxicological Information

Eye Contact: May cause eye irritation.
Skin Contact: May cause skin irritation.
Inhalation: Vapors or mists may cause mild respiratory irritation.
Ingestion: Not fully determined, but single oral dose toxicity is low. Ingesting large amounts may cause adverse gastrointestinal effects.
Chronic Health Effects: Not fully determined.
Acute Toxicity Values: Mixture has not been tested, but based on LD50 of ingredients and calculated LD50, product is not classified as acutely toxic. For dimethylthiolenediamine: Oral rat LD50 1515 mg/kg; Dermal rabbit LD50 >2000 mg/kg.
Skin Corrosion/Irritation: Components are not classified as skin irritants.
Eye Damage/Irritation: Components are not classified as eye irritants.
Respiratory Irritation: Components are not classified as respiratory irritants.
Respiratory Sensitization: Components are not classified as respiratory sensitizers.
Skin Sensitization: Dimethylthiolenediamine ingredient was positive in the guinea pig assay for skin sensitization.
Germ Cell Mutagenicity: Components are not classified as mutagens.
Carcinogenicity: Components are not classified as carcinogens.
Reproductive Toxicity: Components are not classified as reproductive toxins.

Specific Target Organ Toxicity: No data available.

12. Ecological Information

Ecotoxicity: Based on the concentration of dimethylthiolenediamine, these products are classified as hazardous to the aquatic environment (Acute and Long-Term Category 2).
For dimethylthiolenediamine: *Oncorhynchus mykiss* LC50 16.9 mg/L/96 hr; *Daphnia* EC50 0.9 mg/L/48 hr.
Persistence and Degradability: No data available.
Bioaccumulative Potential: No data available.
Mobility in Soil: No data available.

13. Disposal Considerations

Dispose according to local, state and federal regulations. In the U.S., upon disposal, these products (uncured or cured) are not RCRA hazardous waste as defined in 40 CFR 261. NOTE: Earlier versions of this product (pre-May 27, 2015), may be RCRA-regulated owing to mercury content.

14. Transport Information

US Ground Transport: Not regulated as a hazardous material by US DOT (49 CFR 171).
International: UN3082, Environmentally hazardous substance, liquid, n.o.s. (Dimethylthiolenediamine), 9, III.
Emergency Shipping Information: CHEMTREC, 800-424-9300 or +1-703-527-3887

15. Regulatory Information

U.S. FEDERAL REGULATIONS:
CERCLA 103 Reportable Quantity: This product is not subject to reporting under CERCLA. Some states have more stringent reporting requirements. Report all spills in accordance with local, state, and federal regulations.
SARA TITLE III
Section 311/312: Acute Health, Chronic Health
Section 313 Toxic Chemicals: This product does not contain chemicals subject to SARA Title III Section 313 Reporting requirements.
Section 302 Extremely Hazardous Substances (TPQ): None
EPA Toxic Substances Control Act (TSCA) Status: All components are listed on the TSCA inventory.
STATE REGULATIONS:
California Proposition 65: No CA Proposition 65 warning is required.

16. Other Information

Training Advice: All personnel using/handling this product should be trained in proper chemical handling and the need for and use of engineering controls and protective equipment.
Recommended Uses and Restrictions: This product is intended for industrial/professional use only.
SDS Revision Notes: Removed product, July 21, 2016 Minor revisions, Aug. 4, 2015. Supersedes SDS dated May 27, 2015, which was revised owing to product reformulation, which removed mercury-containing ingredient.
Disclaimer: The information contained herein is considered accurate; however, Polytek® Development Corp. makes no warranty regarding the accuracy of the information. The user must determine the suitability of the product for the intended use and accepts all risk and liability associated with that use.