

Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

- 1.1 Product Identifier:** PT Flex 50 Liquid Rubber Part B
 PT Flex 60 Liquid Rubber Part B
 PT Flex 65 FR 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

- 1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against:** Component for Polyurethane Casting/Mold Rubber. For Industrial/Professional Use only. Do not use in toys or childcare articles that can be placed in the mouth.

1.3 Details of the Supplier of the Safety Data Sheet

Manufacturer: Polytek Development Corp.
 55 Hilton St., Easton, PA 18042 USA
 Phone: 610-559-8620 (8 a.m. to 6:30 p.m. EST)
 E-mail: sds@polytek.com

- 1.4 Emergency Telephone Number:** CHEMTREC 800-424-9300 or 001-703-527-3887

Section 2: Hazards Identification

2.1 Classification of the Substance or Mixture:

CLP/GHS (No 1272/2008): Skin Sensitization Category 1 (H317)
 Hazardous to the Aquatic Environment – Acute Hazard Category 3 (H402)
 Hazardous to the Aquatic Environment – Chronic Hazard Category 3 (H412)

2.2 Label Elements: Warning



Hazard Phrases

H317 May cause an allergic skin reaction.
 H401 Toxic to aquatic life.
 H411 Toxic to aquatic life with long lasting effects.

Precautionary Phrases

P261 Avoid breathing fumes, vapors, mists or sprays.
 P272 Contaminated work clothing should not be allowed out of the work area.
 P273 Avoid release to the environment.
 P280 Wear protective gloves.
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.
 P333+P317 If skin irritation or rash occurs: Get medical help.
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P391 Collect spillage.
 P501 Dispose of contents and container in accordance with local, regional and national regulations.

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

2.3 Other Hazards: No additional information available.

Section 3: Composition/Information on Ingredients

3.2 Mixtures

Chemical Name	Identifier	CLP Classification	%
Diethyltoluenediamine	CAS 68479-98-1	STOT RE Cat 2 (H373) Acute Aquatic Cat 3 (H402) Chronic Aquatic Cat 3 (H412)	5-15
Other ingredients are not classified as health and/or environmental hazards, and/or are present below cut-off/concentration limits.			

Section 4: First-Aid Measures

4.1 Description of First Aid Measures

Eye: Rinse thoroughly with water for at least 15 minutes, holding the eyelids open to be sure the material is washed out. Get medical attention if irritation develops or persists.

Skin: Remove contaminated clothing. Wash contact area thoroughly with soap and water. Get medical attention if irritation develops or persists. Launder clothing before re-use. Discard items that cannot be decontaminated.

Inhalation: Remove person to fresh air. Give artificial respiration if needed. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention if irritation develops or persists.

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

4.2 Most Important symptoms and effects, both acute and delayed: Causes skin and eye irritation. Vapors or mists may cause respiratory irritation. May cause allergic skin and/or respiratory reaction in sensitized persons. Symptoms include skin rash, wheezing, shortness of breath and other asthma symptoms. Prolonged inhalation overexposure may damage the lungs and respiratory system.

4.3 Indication of any immediate medical attention and special treatment needed: Immediate medical attention is required for asthmatic symptoms or serious inhalation exposures. Respiratory symptoms, including pulmonary edema may be delayed. Persons receiving significant exposure should be observed 24-48 hours for signs of respiratory distress. Persons sensitized to Diisocyanates should consult a physician regarding working with respiratory irritants or sensitizers.

Section 5: Fire-Fighting Measures

5.1 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.

5.2 Special Hazards Arising from the Substance or Mixture

Unusual Fire and Explosion Hazards: Not classified as flammable or combustible. Product will burn under fire conditions.

Combustion Products: Oxides of carbon and nitrogen, isocyanates, hydrogen cyanide, dense smoke.

5.3 Advice for Fire-Fighters: Wear an approved, positive pressure, self-contained breathing apparatus and full protective clothing. Cool fire exposed containers with water.

Section 6: Accidental Release Measures

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

6.2 Environmental Precautions: Avoid release to the environment. Report spills and releases as required to appropriate authorities.

6.3 Methods and Material for Containment and Cleaning Up: Cover with an inert absorbent material and collect into an appropriate container for disposal. Do not seal the container since CO₂ is generated on contact with moisture and dangerous pressure buildup can occur. Decontaminate floor area with a mixture of water plus isopropyl alcohol (20%), household ammonia (10%), and detergent (2%).

6.4 Reference to Other Sections: Refer to Section 8 for protective clothing and Section 13 for disposal.

Section 7: Handling and Storage

7.1 Precautions for Safe Handling: Do not breathe fumes, vapors, mists or sprays. 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.

7.2 Conditions for Safe Storage, Including any Incompatibilities: Store indoors at temperatures between 12 and 35°C (55 and 95°F). Store in original, unopened containers. Protect from atmospheric moisture and water since MDI reacts with water to form CO₂ leading to potentially dangerous pressure build up in sealed containers.

7.3 Specific end use(s): None identified

Section 8: Exposure Controls/Personal Protection

8.1 Control Parameters:

Occupational Exposure Limits: None established.

Biological Exposure Index: None Established

Derived No Effect Level (DNEL): None Established

Predicted No Effect Concentration (PNEC): None Established

8.2 Exposure Controls:

Ventilation: Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits.

Respiratory Protection: If needed, an approved respirator with organic vapor cartridges may be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

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

Eye Protection: Wear chemical safety goggles.

Other Protective Equipment: 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.

Section 9: Physical and Chemical Properties

9.1 Information on basic Physical and Chemical Properties

Appearance: Liquid, colors vary

Odour: No data available

Odour Threshold: No data available

pH: Not applicable

Melting Point/Freezing Point: No data available

Boiling Point: No data available

Flash Point: >177°C (>350°F)

Evaporation Rate: No data available

Flammability (solid, gas): Not applicable

Flammable Limits: No data available

Vapour Pressure: <0.01 mm Hg @ 25°C

Vapour Density: No data available

Relative Density: 1.0 @ 25°C

Solubility: Insoluble in water

Partition Coefficient: n-Octanol/Water: Reacts with water

Autoignition Temperature: No data available

Decomposition Temperature: No data available

Viscosity: 500-1,500 cP @ 25°C

Explosive Properties: Not explosive

Oxidizing Properties: Not oxidizing

9.2 Other Information: None available

Section 10: Stability and Reactivity

10.1 Reactivity: Not normally reactive.

10.2 Chemical Stability: Stable under recommended conditions.

10.3 Possibility of Hazardous Reactions: Reaction with strong oxidizers generates heat.

10.4 Conditions to Avoid: Avoid excessive heat.

10.5 Incompatible Materials: Avoid contact with strong oxidizers.

10.6 Hazardous Decomposition Products: Thermal decomposition will generate oxides of carbon and nitrogen, organic acids, and other toxic organic compounds.

Section 11: Toxicological Information

11.1 Information on Toxicological Effects:

Potential Health Effects:

Eye Contact: May cause mild eye irritation.

Skin Contact: May cause mild skin irritation. May cause an allergic skin reaction.

Inhalation: Vapors and mists may cause mild respiratory irritation.

Ingestion: No data available.

Chronic Health Effects: May cause an allergic skin reaction.

Acute Toxicity Values: Not acutely hazardous.

Respiratory Sensitization: Components are not classified as respiratory sensitizers.

Skin Sensitization: Components are not classified as skin sensitizers.

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.

Section 12: Ecological Information

12.1 Toxicity: Toxic to aquatic life with long lasting effects. Avoid release to the environment.

12.2 Persistence and Degradability: Not readily biodegradable.

12.3 Bioaccumulative Potential: Not expected to bioaccumulate.

12.4 Mobility in Soil: In the aquatic and terrestrial environment, movement is expected to be limited by its reaction with water forming predominantly insoluble polyureas.

12.5 Results of PBT and vPvB Assessment: Not considered to be PBT.

12.6 Other Adverse Effects: Not applicable

Section 13: Disposal Considerations

13.1 Waste Treatment Methods: Dispose in accordance with all local, state and federal regulations. Upon exposure to moisture, product forms an inert, non-hazardous solid.

Section 14: Transport Information

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Transport Hazard Class(es)	14.4 Packing Group	14.5 Environmental Hazards
US DOT	None	Not Regulated	None	None	No
Canadian TDG	None	Not Regulated	None	None	No
EU ADR/RID	UN3082	Environmentally hazardous substance, liquid, n.o.s. (diethylthiotoluenediamine)	None	None	MARINE POLLUTANT
IMDG	UN3082	Environmentally hazardous substance, liquid, n.o.s. (diethylthiotoluenediamine)	None	None	MARINE POLLUTANT
IATA/ICAO	UN3082	Environmentally hazardous substance, liquid, n.o.s. (diethylthiotoluenediamine)	None	None	MARINE POLLUTANT

14.6 Special Precautions for User: Not applicable

14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

Section 15: Regulatory Information

15.1 Safety, Health and Environment Regulations/Legislation Specific for the Substance or Mixture:

REACH: Substances in this formulation imported to EU in >1 tonne/yr are pre-registered.

REACH Restriction: These products do not contain SVHCs. May contain a plasticizer that is restricted from being used in toys and childcare articles that can be placed in the mouth (2005/84/EC).

International Inventories: To be determined.

15.2 Chemical Safety Assessment: A Chemical Safety Assessment has not been conducted.

Section 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.

SDS Revision Note: EU-version SDS: March 1, 2022

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.