

Development Corp.

**1. Chemical Product and Company Identification**

Polytek Development Corp., 55 Hilton St., Easton, PA 18042, 610/559-8620  
 Product Name: **POLYGEL 40 Part B and POLYGEL 50 Part B**  
 Chemical Family: Trade secret blend of polyol and aromatic diamine

**2. Hazardous Constituents**

Ingredient/CAS #	Exposure Limits
Proprietary aryl mercury compound (0.2%)	ACGIH TLV 0.1 mg/m <sup>3</sup> TWA OSHA PEL 0.1 mg/m <sup>3</sup> (Ceiling)
This product is a trade secret mixture of mostly nonhazardous ingredients.	
No exposure limits have been established by OSHA or ACGIH for any ingredients contained in this product	

**3. Health Hazards**

**PRIMARY ROUTE(S) OF ENTRY:** Skin or eye absorption, or ingestion  
**EYE:** May cause eye irritation.  
**SKIN:** Exposure may cause skin irritation and/or redness.  
**INGESTION:** Toxic by ingestion (contains 0.2% of a toxic mercury compound; also contains a toxic aromatic diamine). May cause gastrointestinal discomfort if ingested.  
**INHALATION:** At room temp., vapors are minimal and material is not expected to be an inhalation hazard. Vapors or aerosols (e.g., generated during heating or spraying) may cause respiratory irritation.  
**CARCINOGENICITY:** Not designated as a carcinogen by NTP, IARC, or OSHA.  
**MUTAGENICITY:** Contains trace quantities of an aryl mercury compound. Similar aryl mercury compounds have been found to cause developmental effects and death to fetuses in animal studies.  
**CHRONIC EFFECTS:** Long-term overexposure to mercury has been associated with central nervous system and kidney disorders.

**4. First Aid Measures**

**EYE CONTACT:** Flush with water for 15 minutes. Seek medical attention.  
**SKIN CONTACT:** Wipe off. Wash with soap and plenty of warm water. Seek medical attention if irritation develops.  
**INHALATION:** Remove to fresh air. Treat symptomatically. Seek medical attention.  
**INGESTION:** If alert, drink water to dilute, then induce vomiting. Seek medical attention.

**5. Fire Fighting Measures**

**FLASH POINT:** >370°F  
**EXTINGUISHING MEDIA:** Carbon dioxide, dry chemical, alcohol foam, or water fog.  
**HAZARDOUS COMBUSTION PRODUCTS:** Likely to include carbon monoxide, carbon dioxide, nitrogen oxides, formaldehyde, mercury vapor, and unidentified toxic and irritating compounds.  
**OTHER INFORMATION:** Firefighters wear protective gear and self-contained breathing apparatus (SCBA). A direct stream of water or foam into hot product may cause frothing and increase fire intensity.

**6. Accidental Release Measures**

Clear non-emergency personnel from the area. Remove sources of ignition. Contain spill to minimize environmental contamination. Absorb spilled material with non-reactive absorbent such as sawdust, vermiculite, or sand. Collect and containerize spill material. Dispose of in accordance with federal, state and local regulations.

**7. Handling and Storage**

**HANDLING:** Avoid contact with eyes, skin and clothing. Avoid breathing vapor. Use in adequately ventilated area. Do not eat, drink or smoke in work area. Wash hands after handling. See also Section 8 of MSDS.  
**STORAGE:** Store indoors. Do not exceed 120°F. Store in original container tightly closed.

**8. Exposure Controls/Personal Protection**

**ENGINEERING CONTROLS:** Provide general and/or local exhaust to minimize airborne concentrations.  
**PERSONAL PROTECTIVE EQUIPMENT:** Eye protection (e.g., chemical splash goggles), protective clothing and PVC-coated gloves are recommended.  
**RESPIRATORY PROTECTION:** In the absence of good ventilation, or if vapors or mists are generated (e.g., through heating or spraying), use respirator equipped with mercury vapor cartridges. In emergency situations, use SCBA.

**9. Physical Characteristics**

**APPEARANCE:** Brown translucent liquid  
**ODOR:** Mild odor  
**BOILING POINT:** No data  
**VAPOR PRESSURE:** < 1 mmHg @ 25°C  
**SOLUBILITY IN WATER:** Negligible  
**SPECIFIC GRAVITY:** ~1.0 @ 25°C

**10. Stability and Reactivity**

**CONDITIONS TO AVOID:** Avoid excessive heat and exposure to sunlight.  
**INCOMPATIBILITY WITH OTHER MATERIALS:** Oxidizers, acids, organic sulfur compounds, and aluminum.  
**HAZARDOUS DECOMPOSITION PRODUCTS:** Potentially oxides of carbon and nitrogen, organic acids, mercury vapor, and other unidentified irritating or toxic compounds

**11. Regulatory and Other Information**

**SARA SECTION 313:** This product does not contain any compounds above the *de minimis* reporting levels subject to SARA Section 313 reporting requirements.  
**RCRA:** Upon disposal, this product (uncured) is a characteristic RCRA hazardous waste (D009 - owing to mercury content) as defined in 40 CFR 261. Cured materials may be RCRA-regulated for mercury. Dispose of in accordance with federal, state and local regulations.  
**DOT:** Not a hazardous material for shipping purposes based on *United Nations Recommendations for the Transport of Dangerous Goods* and 49 CFR Part 171.  
**OTHER INFORMATION:** For emergency shipping info, call CHEMTREC, 800/424-9300.  
**DISCLAIMER:** The information contained herein is considered accurate; however, Polytek 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.