

1. Chemical Product and Company Identification

Polytek Development Corp., 55 Hilton St., Easton, PA 18042, 610/559-8620
Product Name: **POLY 1511 and 1512 SERIES PART A**
Chemical Family: Polyurethane Prepolymer

2. Hazardous Constituents

<u>Ingredient/CAS #</u>	<u>Exposure Limits</u>
Methylene bis(phenylisocyanate) (MDI), CAS# 101-68-8, and other isomers	ACGIH TLV 0.005 ppm TWA OSHA PEL 0.02 ppm (Ceiling)

3. Health Hazards

PRIMARY ROUTE(S) OF ENTRY: Inhalation, skin and eye contact
EYE: May cause eye irritation.
SKIN: Prolonged or repeated exposure may cause skin irritation, staining, or sensitization.
INGESTION: Single oral dose toxicity is low. No hazards anticipated from ingesting small amounts incidental to normal handling.
INHALATION: At room temperature, vapors are minimal. Vapors or aerosols (e.g., generated during heating or spraying) may cause respiratory irritation. May cause respiratory sensitization in susceptible individuals. For individuals sensitized to MDI, exposure may result in allergic respiratory reactions (e.g., coughing, difficulty breathing).
CHRONIC EFFECTS: Repeated overexposure to MDI may cause respiratory and dermal sensitization. Long-term overexposure to MDI may result in impaired lung function.
CARCINOGENICITY: Lung tumors have been observed in rats overexposed to MDI aerosol.

4. First Aid Measures

EYE CONTACT: Flush with plenty of water. Seek medical attention.
SKIN CONTACT: Wash with soap and plenty of warm water.
INHALATION: Remove to fresh air. Treat symptomatically. Seek medical attention.
INGESTION: Seek medical attention. Do not induce vomiting unless so directed by a doctor.

5. Fire Fighting Measures

FLASHPOINT: > 350 °F (estimated)
EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, foams, or water fog or fine spray.
HAZARDOUS COMBUSTION PRODUCTS: May include MDI vapor, nitrogen oxides, isocyanates, carbon monoxide, carbon dioxide, and unidentified toxic and irritating compounds.
OTHER INFORMATION: Firefighters wear SCBA and full-body protective suit. Solid stream of water into hot product may cause violent steam generation or eruption. Dense smoke is formed when product burns. Use water to cool hot containers.

6. Accidental Release Measures

Clear non-emergency personnel from the area. Extinguish sources of ignition. Contain spill to minimize environmental contamination. Absorb spilled material with an inert absorbent. Collect and containerize material. Do not seal containers of spill residue since carbon dioxide is generated upon contact with moisture and dangerous pressure buildup can occur. Neutralize contaminated

floor area with a mixture of water (90%), ammonia (3-8%) and detergent (2%). Clean floor before material reacts with moisture in the air and forms a difficult to remove rubber.

7. Handling and Storage

HANDLING: Avoid breathing vapor. Use in well ventilated area. Avoid contact with eyes, skin and clothing. Do not eat, drink or smoke in work area. Wash hands after handling. See Section 8.
STORAGE: Store indoors at room temperature; do not exceed 95°F. Store in original, unopened container. Protect from atmospheric moisture. Do not allow water to get into container.

8. Exposure Controls/Personal Protection

ENGINEERING CONTROLS: Provide general and/or local exhaust to maintain airborne concentrations below exposure limits (see Section 1 for exposure limits).
PERSONAL PROTECTIVE EQUIPMENT: Wear eye protection (e.g., chemical splash goggles), protective clothing and impermeable gloves (e.g., nitrile or butyl rubber).
RESPIRATORY PROTECTION: In the absence of good ventilation, use respirator equipped with organic vapor cartridges and HEPA filters or air-supplied respirator. In emergencies, use SCBA.

9. Physical Characteristics

APPEARANCE: Clear yellow liquid	VAPOR PRESSURE: Negligible
ODOR: Slight odor	SPECIFIC GRAVITY: 1.1 - 1.2 @ 25°C
SOLUBILITY IN WATER: Insoluble, forms CO ₂	BOILING POINT: No data

10. Stability and Reactivity

CONDITIONS TO AVOID: Avoid temperatures <60 °F and >95 °F. Avoid moisture.
INCOMPATIBILITY WITH OTHER MATERIALS: Avoid contact with water, acids, bases, alcohols, strong oxidizers, and some metals (e.g., aluminum, brass, copper). Reaction with water generates carbon dioxide, and results in heat and pressure buildup in closed systems.
HAZARDOUS DECOMPOSITION PRODUCTS: Possibly isocyanate vapor, carbon monoxide, nitrogen oxides, and traces of hydrogen cyanide.

11. Regulatory and Other Information

COMMUNITY RIGHT-TO-KNOW: This product contains the following Section 313 ingredient:

<u>Ingredient</u>	<u>CAS #</u>	<u>Weight %</u>
Methylene bis (phenylisocyanate)	101-68-8	<60

DISPOSAL: Upon disposal, these Part As are not RCRA hazardous wastes (per 40 CFR 261). Upon exposure to moisture, Part A forms an inert, non-hazardous solid. Part A cured with its Part B counterpart requires testing to determine if it is a RCRA hazardous waste under 40 CFR 261. Dispose of in accordance with state and local regulations.

TRANSPORT: Not a hazardous material for shipping in U.S., per 49 CFR Part 171.

HMS RATING: Health=2*; Flammability=1; Reactivity=1; PPE=C

EMERGENCY SHIPPING INFORMATION: Call CHEMTREC, 800/424-9300.

MSDS INDICATOR: Deleted 1510 Part A - discontinued. Modified Section 11.

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.