Polytek®

MATERIAL SAFETY DATA SHEET

Development Corp

Chemical Product and Company Identification

Product Name: Polytek Development Corp., 55 Hilton St., Easton, PA 18042, 610/559-8620 POLYGEL 40 Part A and POLYGEL 50 Part A

Chemical Family: Polyurethane Prepolymer

2 Hazardous Constituents

Section of Control of		
Ingredient/CAS #	% by W1	Exposure Limits
Methylene bis(phenylisocyanate) (MDI),	<10	ACGIH TLV 0.005 ppm TWA
CAS# 101-68-8, and other isomers		OSHA PEL 0.02 ppm (Ceiling)
Toluene diisocyanate (TDI), mixed isomers,	^	ACGIH TLV 0.005 ppm TWA
CAS 26471-62-5		OSHA PEL 0.02 ppm (Ceiling)
Other ingredients are a trade secret mixture of mostly nonhazardous substances (per 29 CFF	mostly non	hazardous substances (per 29 CFR
1910.1200) for which no exposure limits have been established by OSHA or ACGIH.	been establ	ished by OSHA or ACGIH.

Health Hazards

PRIMARY ROUTE(S) OF ENTRY: Inhalation, skin or eye absorption

EYE: May cause eye irritation

SKIN: Prolonged or repeated exposure may cause skin irritation, staining, or sensitization INGESTION: May cause gastrointestinal discomfort and nausea, lethargy, or diarrhea

means of industrial exposure) has not been proven. cancer in lab animals when administered orally. Carcinogenicity via inhalation (the most likely sensitization. TDI is listed as a carcinogen by IARC (2B) and NTP. TDI has been shown to cause CHRONIC EFFECTS: Repeated overexposure to MDI and TDI may cause respiratory and derma exposure may result in allergic respiratory reactions (e.g., coughing, difficulty breathing). heating or spraying) may cause respiratory irritation. For individuals sensitized to MDI or TDI, INHALATION: At room temp., vapors are minimal. Vapors or aerosols (e.g., generated during

4. First Aid Measures

EYE CONTACT: Flush with plenty of water. Seek medical attention

SKIN CONTACT: Wipe off. Wash with soap and plenty of warm water.

INHALATION: Remove to fresh air. Treat symptomatically. Seek medical attention.

INGESTION: Immediately drink large quantities of water. Seek medical attention. Do not induce

vomiting unless so directed by a medical professional

Fire Fighting Measures

FLASH POINT: > 380 °F

water or foam into hot product may cause frothing. Use water to cool hot containers OTHER INFORMATION: Firefighters wear SCBA and full-body protective suit. Solid stream of isocyanates, carbon monoxide, carbon dioxide, and unidentified toxic and irritating compounds HAZARDOUS COMBUSTION PRODUCTS: May include MDI and TDI vapor, nitrogen oxides EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, foams, or water spray

Accidental Release Measures

minimize environmental contamination. Absorb spilled material with an inert absorbent. Collect Clear non-emergency personnel from the area. Extinguish sources of ignition. Contain spill to

> upon contact with moisture and dangerous pressure buildup can occur. Neutralize contaminated and containerize material. Do not seal containers of spill residue since carbon dioxide is generated 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

Handling and Storage

container. Protect from atmospheric moisture. Do not allow water to get into container STORAGE: Store indoors at room temperature; do not exceed 100°F. Store in original, unopened and clothing. Do not eat, drink or smoke in work area. Wash hands after handling. See Section 8 HANDLING: Avoid breathing vapor. Use in well ventilated area. Avoid contact with eyes, skin

Exposure Controls/Personal Protection

RESPIRATORY PROTECTION: In the absence of good ventilation, use respirator equipped with clothing, and butyl rubber/neoprene gloves PERSONAL PROTECTIVE EQUIPMENT: Recommend chemical splash goggles, protective concentrations below exposure limits (see Section 1 for exposure limits) organic vapor cartridges. In emergency situations, use SCBA ENGINEERING CONTROLS: Provide general and/or local exhaust to maintain airborne

Physical Characteristics

SOLUBILITY IN WATER: Insoluble, reacts to form CO2 ODOR: Slightly sweet and acrid odor APPEARANCE: Clear to amber liquid

BOILING POINT: Not determined SPECIFIC GRAVITY: 1.1 @ 25°C VAPOR PRESS.: <1 mmHg @ 25°0

10. Stability and Reactivity

nitrogen oxides, and traces of hydrogen cyanide alcohols, strong oxidizers, and some metals. Reaction with water generates carbon dioxide, and HAZARDOUS DECOMPOSITION PRODUCTS: Possibly isocyanate vapor, carbon monoxide results in heat and pressure buildup in closed systems INCOMPATIBILITY WITH OTHER MATERIALS: Avoid contact with water, acids, bases, CONDITIONS TO AVOID: Avoid temperatures <60 °F and >100 °F. Avoid moisture

11. Regulatory and Other Information

SARA SECTION 313: This product contains the following Section 313 ingredient:

Methylene bis (phenylisocyanate) Toluene diisocyanate (mixed isomers) 26471-62-5 101-68-8 V (

CA PROPOSITION 65: TDI "Known to cause cancer." for the Transport of Dangerous Goods and 49 CFR Part 171. DOT: Not a hazardous material for shipping purposes based on United Nations Recommendations moisture, product forms an inert, non-hazardous solid. Follow state and local regulations RCRA: Upon disposal, this product is not a RCRA hazardous waste (per 40 CFR 261). Upon exposure to

OTHER INFORMATION: For emergency shipping info., call CHEMTREC, 800/424-9300

intended use and accepts all risk and liability associated with that use regarding the accuracy of the information. The user must determine the suitability of the product for the DISCLAIMER: The information contained herein is considered accurate; however, Polytek makes no warranty