

Material Safety Data Sheet

1. Chemical Product and Company Identification	7. Handling and Storage
Polytek Development Corp., 55 Hilton St., Easton, PA 18042, 610/559-8620 Product Name: POLY PLASTI-FLEX CASTING RESIN PART A	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.
2. Hazardous Constituents	STORAGE: Store indoors at temperatures >75°F and <105°F. Store in original, unopened container. Protect from atmospheric moisture and water, since MDI reacts with water to form CO ₂ leading to potentially dangerous pressure build up in sealed containers.
Ingredient/CAS # Exposure Limits Methylene bis(phenylisocyanate) (MDI) CAS# 101-68-8 ACGIH TLV 0.005 ppm TWA	8. Exposure Controls/Personal Protection
and other isomers OSHA PEL 0.02 ppm (Ceiling)	ENGINEERING CONTROLS: Provide general and/or local exhaust to maintain airborne
3. Health Hazards	concentrations below exposure limits (see Section 1 for exposure limits). PERSONAL PROTECTIVE FOURPMENT: Chemical splash goggles, protective clothing, and
PRIMARY ROUTE(S) OF ENTRY: Inhalation, skin or eye absorption	impervious rubber gloves are recommended.
EYE: May cause moderate eye irritation. SKIN: Exposure may cause skin irritation, staining, or sensitization. INGESTION: Single oral dose toxicity is low. May cause nausea, vomiting, and diarrhea. INHALATION: At room temp., vapors are minimal. Vapors or aerosols (e.g., generated during	RESPIRATORY PROTECTION: In the absence of good ventilation, use a supplied-air respirator, or, if unavailable, a respirator equipped with organic vapor cartridges. In emergencies, use SCBA.
heating or spraying) may cause respiratory irritation. May cause respiratory sensitization in suscentible individuals. For individuals sensitized to MDL exposure may result in allergic	9. Physical Characteristics
respiratory reactions (e.g., coughing, difficulty breathing).	APPEARANCE: Clear brown liquid VAPOR PRESSURE: Negligible
sensitization. Long-term overexposure to MDI may result in impaired lung function.	ODOR: Mild odor SPECIFIC GRAVITY: 1.1 @ 25°C SOLUBILITY IN WATER: Insoluble, forms CO2 BOILING POINT: No data
CARCINOGENICITY: Rats exposed to MDI aerosol for their lifetime developed lung tumors.	10. Stability and Reactivity
4. First Aid Measures	CONDITIONS TO AVOID: Maisture and terregenetures (75 %E and 5.05 %E to answer and but
EYE CONTACT: Flush with water immediately for 15 minutes. Seek medical attention. SKIN CONTACT: Wash with soap and plenty of water (preferably warm water). INHALATION: Remove to fresh air. Treat symptomatically. Seek medical attention.	integrity. INCOMPATIBILITY WITH OTHER MATERIALS: Avoid contact with water, acids, bases, alcohols, strong oxidizers, and some metals (e.g., aluminum, brass, copper). Reaction with water
Fine Fighting Measures	generates carbon dioxide, and results in heat and pressure buildup in closed systems. HAZARDOUS DECOMPOSITION PRODUCTS: Possibly isocyanate vapor, carbon monoxide.
5. FIFE Fighting inteasures	nitrogen oxides, and traces of hydrogen cyanide.
EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, foams, or water fog or fine spray.	11. Regulatory and Other Information
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	COMMUNITY RIGHT-TO-KNOW: This product contains the following Section 313 ingredient: Ingredient CAS # Weight % Polymeric diphenylmethane diisocyanate (includes MDI) 9016-87-9 100
when product burns. Use water to cool hot containers.	DISPOSAL: Upon disposal, this product (uncured) is not a RCRA hazardous waste (per 40 CFR 261). Upon exposure to moisture, product forms an inert, non-hazardous solid.
6. Accidental Release Measures	TRANSPORT: Not a hazardous material for shipping in U.S., per 49 CFR Part 171.
Clear non-emergency personnel from the area. Extinguish sources of ignition. Put on protective	HMIS RATING: Health=2*; Flammability=1; Reactivity=1; PPE=C
spilled material with an inert absorbent. Collect and containerize material. Do not seal containers	EMERGENCY SHIPPING INFORMATION: Call CHEMTREC, 800/424-9300.
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%),	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