

## 1. Identification

Product Identifier: **FastCast™ Part A**  
 Use: Two-Component Casting Polyurethane. For Industrial/Professional use only.  
 Manufacturer: Polytek Development Corp.  
 55 Hilton Street, Easton, PA 18042  
 Phone Number: 800-755-8568 (8 a.m. to 5 p.m. CST)  
 Emergency Phone: CHEMTREC 800-424-9300 or +1 703-527-3887  
 E-mail: sds@polytek.com

## 2. Hazards Identification

### GHS Classification:

Acute Toxicity (Inhalation) – Category 4  
 Skin Irritation – Category 2  
 Eye Irritation – Category 2A  
 Respiratory Sensitization – Category 1  
 Skin Sensitization – Category 1  
 Specific Target Organ Toxicity – Single Exposure Category 3 (respiratory tract)  
 Specific Target Organ Toxicity – Repeated Exposure – Category 2 (respiratory system)

Label Elements: Danger



### Hazard Statements:

H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H319 Causes serious eye irritation.  
 H332 Harmful if inhaled.  
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 H335 May cause respiratory irritation.  
 H336 May cause drowsiness or dizziness.  
 H373 May cause damage to organs (respiratory tract) through prolonged or repeated exposure.

### Precautionary Phrases:

P260 Do not breathe fumes, vapors, mists, or sprays.  
 P271 Use only outdoors or in a well-ventilated area.  
 P272 Contaminated work clothing should not be allowed out of the workplace.  
 P280 Wear protective gloves, eye protection, and face protection.  
 P284 In case of inadequate ventilation wear respiratory protection.  
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P317 Get medical help.  
 P333+P317 If skin irritation or rash occurs: Get medical help.  
 P337+P317 If eye persists: Get medical help.  
 P342+P316 If experiencing respiratory symptoms: Get emergency medical help immediately.  
 P362+P364 Take off contaminated clothing and wash it before reuse.  
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
 P405 Store locked up.  
 P501 Dispose of contents and containers in accordance with federal, state, and local regulations.

**Supplemental Information:** This is one part of a two-part system. Read and understand the hazards of the Part B before use.

## 3. Composition/Information on Ingredients

Chemical Name	CAS #	%
Methylene diphenyl diisocyanate (MDI)	101-68-8	30-50
Modified MDI	25686-28-6	30-50
Diisodecyl phthalate	26761-40-0	10-40
Exact concentrations are withheld as trade secret. Other ingredients are not listed because they are either not hazardous or are below cut-off/concentration thresholds.		

## 4. First-Aid Measures

**Eye Contact:** Rinse with water for several minutes. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops or persists.  
**Skin Contact:** Take off contaminated clothing and wash it before reuse. Wash skin thoroughly with soap and water for several minutes. Get medical attention if irritation develops or persists.  
**Inhalation:** Move to fresh air. Get emergency medical help immediately if experiencing respiratory symptoms.  
**Ingestion:** Do not induce vomiting unless directed to do so by a medical professional. Get medical attention if you feel unwell.  
**Most Important Symptoms/Effects:** May cause allergy or asthma symptoms.  
**Indication of Immediate Medical Attention/Special Treatment:** Get emergency medical help immediately if inhaled.

## 5. Fire-Fighting Measures

**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.  
**Specific Hazards:** Not classified as flammable or combustible.  
**Special Protective Equipment & Precautions for Fire-Fighters:** Wear positive pressure, self-contained breathing apparatus, and full-body protective clothing. Cool fire-exposed containers with water.

## 6. Accidental Release Measures

**Personal Precautions, Protective Equipment and Emergency Procedures:** Clear non-emergency personnel from the area. Wear appropriate protective clothing to prevent eye and skin contact and avoid breathing fumes or vapors.  
**Methods and Materials for Containment and Cleanup:** Cover with an inert absorbent material and collect into an appropriate container for disposal. Avoid releases to the environment.

## 7. Handling and Storage

**Safe Handling:** Keep out of reach of children. Do not breathe fumes, vapors, mists, or sprays. Avoid contact with clothing and skin. Provide adequate ventilation. If inadequate ventilation, wear respiratory protection. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.  
**Safe Storage:** Store away from incompatible materials. Store in a tightly closed original container in a dry, cool, and well-ventilated place. Read and follow manufacturer's recommendations.

## 8. Exposure Controls/Personal Protection

**Occupational Exposure Limits:** For Methylene diphenyl diisocyanate (MDI) (CAS 101-68-8):

OSHA PEL	0.02 ppm (C)
ACGIH TLV	0.005 ppm TWA

**Ventilation:** Use with adequate general or local exhaust ventilation to minimize exposure levels.

**Respiratory Protection:** If ventilation is inadequate, use a properly fitted, NIOSH-approved, air-purifying respirator with organic vapor

cartridges. For higher exposures or in an emergency, use a supplied-air respirator. Use respirators in accordance with OSHA's Respiratory Protection Standard (29 CFR 1910.134).

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

**Eye Protection:** Wear chemical safety glasses or goggles.

**Other Protective Measures:** An eye wash facility and washing facility should be available in the work area. Avoid skin contact. Follow good Industrial Hygiene practices.

## 9. Physical and Chemical Properties

**Appearance:** Liquid, pale yellow

**Odor:** Musty, slight aromatic

**Odor Threshold:** No data available

**pH:** No data available

**Melting Point:** <60°F (<15.56°C)

**Boiling Point:** No data available

**Flash Point:** 400°F (204.4°C)

**Evap. Rate:** No data available

**Flamm. Limits:** No data available

**Vapor Pressure:** No data available

**Vapor Density:** No data available

**Relative Density:** 1.2

**Solubility:** No data available

**Partition Coefficient: n-octanol/Water:** No data available

**Auto-Ignition Temp:** No data available

**Decomposition Temp:** No data available

**Viscosity:** No data available

## 10. Stability and Reactivity

**Reactivity:** Not normally reactive.

**Chemical Stability:** Stable under recommended conditions.

**Possibility of Hazardous Reactions:** Contact with moisture or other materials which react with isocyanates may cause polymerization.

**Conditions to Avoid:** Avoid moisture, high temperatures, and contact with incompatible materials.

**Incompatible Materials:** Avoid strong oxidizing agents, water, acids, bases, alcohols, metal compounds, and surface active agents.

**Hazardous Decomposition Products:** Carbon and nitrogen oxides.

## 11. Toxicological Information

**Eye Contact:** Causes serious eye irritation.

**Skin Contact:** Causes skin irritation. May cause an allergic skin reaction.

**Ingestion:** No data available.

**Inhalation:** Harmful if inhaled.

**Chronic Health Effects:** May cause allergy or asthma or breathing difficulties. May cause an allergic skin reaction.

**Acute Toxicity Values:** For Diisodecyl phthalate (CAS 26761-40-0):

Oral LD<sub>50</sub> (rat): >62,080 mg/kg

Dermal LD<sub>50</sub> (rabbit): >3,160 mg/kg

Inhalation LC<sub>50</sub> (rat): >12.54 mg/L, 4hr

For Methylene diphenyl diisocyanate (MDI) (CAS 101-68-8):

Inhalation LC<sub>50</sub> (rat): >2.24 mg/L, 1hr

**Respiratory Sensitization:** Components are classified as respiratory sensitizers.

**Skin Sensitization:** Components are classified as skin sensitizers.

**Germ Cell Mutagenicity:** Components are not known mutagens.

**Carcinogenicity:** Components are not classified as carcinogens by NTP, IARC, or OSHA.

**Reproductive Toxicity:** Components are not classified as reproductive toxins.

**Specific Target Organ Toxicity:** May cause damage to respiratory tract through prolonged or repeated exposure. May cause drowsiness or dizziness.

## 12. Ecological Information

**Ecotoxicity:** No data available. Avoid release to the environment.

**Persistence and Degradability:** Not readily biodegradable.

**Bioaccumulative Potential:** Low potential for bioaccumulation.

**Mobility in Soil:** No data available.

## 13. Disposal Considerations

Minimize waste generation. Dispose of with a licensed waste disposal contractor. Do not dispose of down the drain. Dispose according to local, state, and federal regulations.

## 14. Transport Information

**DOT:** Non-bulk packaging (<882 lbs. or <119 gal) are not regulated for transport.

Bulk Packaging (>882 lbs. or >119 gal): UN 3082, Environmentally hazardous substance, liquid, n.o.s (4,4-Diphenylmethane Diisocyanate), 9, III.

**IMDG/IATA:** UN3082, Environmentally hazardous substance, liquid, n.o.s (4,4-Diphenylmethane Diisocyanate), 9, III.

**Emergency Shipping Information:** Call CHEMTREC, 800-424-9300 or +1-703-527-3887.

## 15. Regulatory Information

**U.S. FEDERAL REGULATIONS:**

**CERCLA 103 Reportable Quantity:** This product is not subject to these reporting requirements. Some states have more strict reporting requirements.

**SARA TITLE III Section 311/312:** Acute/Chronic Health

**Section 313 Toxic Chemicals:** This product contains chemicals subject to SARA Title III Section 313 reporting requirements:

Methylene diphenyl diisocyanate (CAS 101-68-8) 30-50%

**Section 302 Extremely Hazardous Substances (TPQ):** None

**EPA Toxic Substances Control Act (TSCA) Status:** Components in this product are listed on TSCA.

**STATE REGULATIONS:**

**California Proposition 65: WARNING:** This product can expose you to chemicals including Diisodecyl phthalate, which is known to the State of California to cause cancer and/or reproductive harm.

[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## 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.

**Recommended Uses and Restrictions:** This product is intended for industrial/professional use only.

**SDS Revision Notes:** GHS Format: October 28, 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.