

## 1. Chemical Product and Company Identification

Polytek Development Corp., 55 Hilton St., Easton, PA 18042, 610/559-8620

Product Name: **EASYFLO 60, 95, 120 & CLEAR PART A**

Chemical Family: Methylene bis(phenylisocyanate)

## 2. Hazardous Constituents

| Hazardous Ingredient/CAS #  | Exposure Limits  |
|---|--|
| Methylene bis(phenylisocyanate) (MDI), CAS# 101-68-8, and other isomers | ACGIH TLV 0.005 ppm TWA<br>OSHA PEL 0.02 ppm (Ceiling) |
| Proprietary plasticizer   | None established                                       |

## 3. Health Hazards

PRIMARY ROUTE(S) OF ENTRY: Skin and eye contact

EYE: Causes eye irritation.

SKIN: Exposure may cause skin irritation, staining, or sensitization. Skin contact may cause respiratory sensitization.

INGESTION: Single oral dose toxicity is low. No harmful effects anticipated from ingesting small amounts incidental to normal handling.

INHALATION: At room temp., 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 or prolonged overexposure to MDI may cause respiratory and dermal sensitization. Long-term overexposure to MDI may result in impaired lung function.

CARCINOGENICITY: Not designated as a carcinogen by NTP, IARC, or OSHA. Rats exposed to MDI aerosol for their lifetime developed lung tumors.

## 4. First Aid Measures

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 symptoms. Seek medical attention.

INGESTION: Seek medical attention. Do not induce vomiting unless so directed by a physician.

## 5. Fire Fighting Measures

FLASH POINT: > 300 °F (estimated)

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, foams, or water 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%).

## 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 temperatures >55°F and <95°F. Store in original, unopened container. Protect from atmospheric moisture and water, since MDI reacts with water to form CO<sub>2</sub> leading to potentially dangerous pressure build up in sealed containers.

## 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 PRESS.: .0007 mmHg @ 20°C (est.)

ODOR: Mild acrid odor

SPECIFIC GRAVITY: 1.2 @ 25°C

SOLUBILITY IN WATER: Insoluble, forms CO<sub>2</sub>

BOILING POINT: No data

pH: Not applicable

VISCOSITY: <150 cP

## 10. Stability and Reactivity

CONDITIONS TO AVOID: Moisture and temp's <55 °F and >95 °F to ensure product 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 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:

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

DISPOSAL: Upon disposal, this product is not a RCRA hazardous waste (per 40 CFR 261). Upon exposure to moisture, product forms an inert, non-hazardous solid.

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

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

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

MSDS INDICATOR: Minor format changes.

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.

## 1. Chemical Product and Company Identification

Polytek Development Corp., 55 Hilton St., Easton, PA 18042, 610/559-8620  
 Product Name: **EASYFLO 95 PART B**  
 Chemical Family: Polyol blended with trade secret ingredients

## 2. Hazardous Constituents

| Ingredient                             | Exposure Limits   |
|--|---|
| Aryl mercury compound ( $\leq 0.4\%$ ) | ACGIH TLV 0.1 mg/m <sup>3</sup> TWA<br>OSHA PEL 0.1 mg/m <sup>3</sup> (Ceiling) |
| Aromatic amine                         | None established  |
| Phthalate ester                        | None established  |

## 3. Health Hazards

PRIMARY ROUTE(S) OF ENTRY: Skin and eye contact, ingestion  
 EYE: May cause eye irritation.  
 SKIN: Exposure may cause skin irritation and/or redness.  
 INGESTION: Toxic by ingestion (contains a mercury compound; also contains an aromatic amine). 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., from heating or spraying) may cause respiratory irritation.  
 CARCINOGENICITY: Not designated as a carcinogen by NTP, IARC, or OSHA.  
 CHRONIC EFFECTS: Contains  $\leq 0.4\%$  of an aryl mercury compound; similar mercury compounds have been found to cause adverse reproductive 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:  $>200^{\circ}\text{F}$  (estimated)  
 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: Wear eye protection (e.g., safety glasses or chemical splash goggles), protective clothing, and impermeable gloves (e.g., nitrile or PVC-coated).  
 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 organic vapor cartridges. In emergency situations, use SCBA.

## 9. Physical Characteristics

|                          |                                    |
|--------------------------|------------------------------------|
| APPEARANCE: Clear liquid | VAPOR PRESSURE: $< 1$ mm Hg @ 25°C |
| ODOR: Mild odor          | SOLUBILITY IN WATER: Negligible    |
| BOILING POINT: No data   | SPECIFIC GRAVITY: 1.0 @ 25°C       |
| pH: Not applicable       | VISCOSITY: 140 cP                  |

## 10. Stability and Reactivity

CONDITIONS TO AVOID: Avoid excessive heat and exposure to sunlight.  
 INCOMPATIBLE 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

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

| Ingredient              | CAS #        | Weight %   |
|-------------------------|--------------|------------|
| Mercury Compound (N458) | Trade secret | $\leq 0.4$ |

DISPOSAL: Upon disposal, this product (uncured) is a RCRA characteristic hazardous waste (D009 - owing to mercury content) as defined in 40 CFR 261. Cured product may be RCRA-regulated owing to mercury content. Dispose of in accordance with federal, state and local regulations.

TRANSPORT: Not a hazardous material for shipping purposes based on *United Nations Recommendations for the Transport of Dangerous Goods* and 49 CFR Part 171.

HMIS RATING: Health=2; Flammability=1; Reactivity=1; PPE=C

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

REVISION INDICATOR: Minor format changes.

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## 1. Chemical Product and Company Identification

Polytek Development Corp., 55 Hilton St., Easton, PA 18042, 610/559-8620  
Product Name: **EASYFLO 60, 120 & CLEAR PART B**  
Chemical Family: Polyol

## 2. Hazardous Constituents

| Hazardous Ingredient/CAS #     | Exposure Limits  |
|--------------------------------|------------------|
| Proprietary alkyl polyol blend | None established |
| Phthalate ester                | None established |

## 3. Health Hazards

PRIMARY ROUTE(S) OF ENTRY: Skin and eye contact, inhalation  
EYE: May cause eye irritation.  
SKIN: May cause skin irritation.  
INGESTION: Ingestion may result in gastric disturbances.  
INHALATION: May result in respiratory irritation.  
CHRONIC EFFECTS: Prolonged or repeated skin contact may cause some individuals to develop a skin rash due to allergic skin sensitization.  
CARCINOGENICITY: Not designated as a carcinogen by NTP, IARC, or OSHA.

## 4. First Aid Measures

EYE CONTACT: Flush with water for 15 minutes. Seek medical attention if irritation persists.  
SKIN CONTACT: Wash with soap and plenty of warm water. Remove contaminated clothing.  
INHALATION: Remove to fresh air. Treat symptoms. Seek medical attention if symptoms persist.  
INGESTION: Dilute with water and induce vomiting. Never give fluids or induce vomiting if victim is unconscious. Seek medical attention.

## 5. Fire Fighting Measures

FLASH POINT: >262°F (estimated)  
EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, foams, or water spray.  
HAZARDOUS COMBUSTION PRODUCTS: Likely to include carbon monoxide, carbon dioxide, nitrogen oxides, formaldehyde, and unidentified toxic and irritating compounds.  
OTHER INFORMATION: Firefighters wear SCBA. Cool fire exposed containers with water spray.

## 6. Accidental Release Measures

Clear non-emergency personnel from the area. Extinguish sources of ignition. Put on protective equipment (see Sect. 8). Contain spill to minimize environmental contamination. Absorb spilled material with an inert absorbent such as sawdust, vermiculite, dirt, sand, clay, or cob grit. Collect and containerize material.

## 7. Handling and Storage

HANDLING: Use in adequately ventilated area. Avoid contact with eyes, skin and clothing. Do not eat, drink or smoke in work area. Wash hands after handling. Reseal containers immediately after use. See also Section 8 of MSDS.  
STORAGE: Store in a well ventilated area indoors at 60-80°F. Avoid getting moisture into product. Store in original container. Keep container tightly closed when not in use.

## 8. Exposure Controls/Personal Protection

ENGINEERING CONTROLS: Provide general and/or local exhaust.  
PERSONAL PROTECTIVE EQUIPMENT: Wear eye protection (e.g., chemical splash goggles), protective clothing and impervious rubber gloves (e.g., butyl rubber).  
RESPIRATORY PROTECTION: If ventilation is not adequate, use a NIOSH-approved respirator with organic vapor cartridges. In an emergency, use SCBA.

## 9. Physical Characteristics

APPEARANCE: Clear liquid  
ODOR: Slightly sweet  
SOLUBILITY IN WATER: Slightly soluble  
pH: Not applicable  
VAPOR PRESS.: <1 mm Hg @ 20°C (est.)  
SPECIFIC GRAVITY: 1.0 @ 25°C  
BOILING POINT: No data  
VISCOSITY: ≤ 160 cP

## 10. Stability and Reactivity

CONDITIONS TO AVOID: Normally stable, but avoid excessive temperatures.  
INCOMPATIBILITY WITH OTHER MATERIALS: Avoid contact with strong oxidizers.  
HAZARDOUS DECOMPOSITION PRODUCTS: May include nitrogen oxides, carbon monoxide, carbon dioxide, and unidentified toxic and irritating compounds.

## 11. Regulatory and Other Information

COMMUNITY RIGHT-TO-KNOW: This product does not contain any compounds above the de minimis reporting levels subject to SARA Section 313 reporting requirements.  
DISPOSAL: Upon disposal, this product is not a listed or characteristic RCRA hazardous waste as defined in 40 CFR 261. Dispose of in accordance with state and local regulations.  
TRANSPORT: Not a hazardous material for shipping purposes based on *United Nations Recommendations for the Transport of Dangerous Goods* and 49 CFR Part 171.  
HMIS RATING: Health-2; Flammability-1; Reactivity-0; PPE- C  
EMERGENCY SHIPPING INFORMATION: Call CHEMTREC, 800/424-9300.

MSDS REVISION INDICATOR: Minor format changes.

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