

Development Corp.

## 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# 10 1 -68-8, and other isomers	ACGIH TLV 0.005 ppm TWA OSHA PEL 0.02 ppm (Ceiling)

Additional information on ingredients is withheld as a trade secret per 29 CFR 1910.1200(i).

No exposure limits have been established by OSHA or ACGIH for other ingredients.

## 3. Health Hazards

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

EYE: May cause slight 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., vapours are minimal. Vapours 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: Not designated as a carcinogen by NTP, IARC, or OSHA. Rats exposed to MDI aerosol for their lifetime developed lung tumours.

## 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: &gt;300°F (estimated)

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, foams, or water spray. HAZARDOUS COMBUSTION PRODUCTS: May include MDI vapour nitrogen oxides, isocyanates, carbon monoxide, carbon dioxide, and unidentified toxic and irritating compounds.

OTHER INFORMATION: Firefighters wear SC13A 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 the 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 a 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 vapour 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 vapour cartridges and HEPA filters or air-supplied respirator. In emergencies, use SC13A.

## 9. Physical Characteristics

**APPEARANCE:** Clear yellow liquid

**ODOUR:** Mild acrid odour

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

**pH:** Not applicable

**VAPOUR PRESS.:** .0007 mmHg @ 20°C (est.)

**SPECIFIC GRAVITY:** 1.2 @ 25°C

**BOILING POINT:** No data

**VISCOSITY:** <20 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 vapour 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	<50

**DISPOSAL:** Upon Disposal this product is not an 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.

Development Corp.

## 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 B**

Chemical Family: Polyol

## 2. Hazardous Constituents

Hazardous Ingredient/CAS # Exposure Limits

Polyalkyl polyol None established

Phthalate ester None established

## 3. Health Hazards

PRIMARY ROUTE(S) OF ENTRY: Skin or 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: None known.

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 the victim is unconscious.

Seek medical attention.

## 5. Fire Fighting Measures

FLASH POINT: &gt;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 the 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 temperatures &gt;70oF and &lt;80oF. Avoid moisture. Store in original closed container.

## 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 vapour cartridges. In an emergency, use SC13A.

## 9. Physical Characteristics

APPEARANCE: Clear liquid

ODOUR: Slightly sweet

SOLUBILITY IN WATER: Slightly soluble

pH: Not applicable

Vapour PRESS.: <1 mm Hg @ 20°C (est.)

SPECIFIC GRAVITY: 1.0 @ 25°C

BOILING POINT: No data

VISCOSITY: 65 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-O; PPE-C

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

**MSDS REVISION INDICATOR:** Minor format changes.

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