

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Article

Product Name: Polyester Film Lumirror®

Synonyms: A53, AU50, AU6L1, B53, F53, F53K, F65, F65C, F65R, F65T, F6L, F75, F7R, F7S, FA3, FA3H, FA6, QM60, QX60, TA30, TA31, U50, U60, U65, U653, U6E, U80, U8D, U8M, UF65; Polyethylene Terephthalate film with or without coating.

1.2. Intended Use of the Product

Use of the substance/mixture: See Technical Data Sheet

1.3. Name, Address, and Telephone of the Responsible Party

Company

Toray Plastics (America), Inc.

50 Belver Avenue

North Kingstown, RI 02852

401-294-1550

<http://www.toraytpa.com/>

1.4. Emergency Telephone Number

Emergency Number : 1-800-424-9300 (CHEMTREC)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

Classification (GHS-US)

Not classified, this material is considered an article under 29 CFR 1910.1200

2.2. Label Elements

GHS-US Labeling

No labeling applicable, this material is considered an article under 29 CFR 1910.1200

2.3. Other Hazards

This product in its supplied form as an article is not expected to create any hazards. If the consumer changes the form of the product in a manner in which dust is generated, the dust may be considered combustible. When heated to decomposition, may emit toxic fumes. Risk of thermal burns on contact with molten material. Material may develop static charge under normal handling and processing conditions.

2.4. Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

This material is considered an article under 29 CFR 1910.1200

Name	Product Identifier	%	Classification (GHS-US)	Notes
Polyethylene Terephthalate	(CAS No) 25038-59-9	> 99	Not classified	[1][2]

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4: FIRST AID MEASURES

4.1. Description of First Aid Measures

First-aid Measures General: Product is not expected to present hazards in the supplied form. If the consumer changes the form of the product, these first aid measures may be applicable on an as needed basis. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.

First-aid Measures After Inhalation: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

First-aid Measures After Skin Contact: Not expected to present a significant dermal hazard under anticipated conditions of normal use. Obtain medical attention if irritation develops or persists. If contact with molten material occurs removal of solidified molten material from skin requires medical assistance.

First-aid Measures After Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

First-aid Measures After Ingestion: Rinse mouth. Do not induce vomiting. Get medical advice/attention.

SECTION 4: FIRST AID MEASURES (CONT.)

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/Injuries: Not expected to present a significant hazard under anticipated conditions of normal use. Risk of thermal burns on contact with molten material.

Symptoms/Injuries After Inhalation: Fumes from decomposition may cause adverse effects.

Symptoms/Injuries After Skin Contact: Risk of thermal burns on contact with molten material.

Symptoms/Injuries After Eye Contact: Particulates, dust and decomposition products may cause eye irritation.

Symptoms/Injuries After Ingestion: Ingestion may have adverse effects.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire. Recommended extinguishing media: alcohol resistant foam, CO₂, water spray.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Product is not explosive. Processing may form combustible dust concentrations in air which creates the potential for dust ignition/explosion.

Reactivity: Hazardous reactions will not occur under normal conditions.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. Keep personnel removed and upwind of fire.

Other Information: When heated to decomposition, may emit toxic fumes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid breathing vapors from molten material. Material may develop static charge under normal handling and processing conditions. Wash hands before eating, drinking, smoking or using bathroom.

6.1.1. For Non-emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE) identified in Section 8.

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Responders

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Ventilate area if product has been heated to decomposition or dusty conditions exist.

6.2. Environmental Precautions

Prevent entry to sewers and public waters.

6.3. Methods and Material for Containment and Cleaning Up

For Containment: Where possible allow molten material to solidify naturally. Collect as solid.

Methods for Cleaning Up: Choose recovery method best suited for product form. Clear up spills immediately and dispose of waste safely. Recover the product by vacuuming, shoveling or sweeping. Cool molten material to limit spreading. Follow applicable federal, state and local regulations.

6.4. Reference to Other Sections

See Section 8, Exposure Controls and Personal Protection.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: When heated to decomposition, may emit toxic fumes. Avoid breathing vapors from molten material. Risk of thermal burns on contact with molten material. Electrostatic charges can be generated under normal handling and processing conditions.

Precautions for Safe Handling: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing fumes from decomposition.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

SECTION 7: HANDLING AND STORAGE (CONT.)

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep/Store away from extremely high or low temperatures, ignition sources, direct sunlight, and incompatible materials.

Incompatible Products: Strong acids. Strong bases. Strong oxidizers.

7.3. Specific End Use(s) See Technical Data Sheet

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

CAS No.	Ingredient	Source	Value
25038-59-9	Polyethylene Terephthalate	OSHA	Particulates (not otherwise regulated): TWA 15 mg/m ³ , total dust; TWA 5 mg/m ³ , respirable dust
		ACGIH	Guideline for particulates (insoluble or poorly soluble, not otherwise specified): TWA 10 mg/m ³ , inhalable particles; TWA 3 mg/m ³ , respirable dust
		NIOSH	No Established Limit
		Supplier	No Established Limit

8.2. Exposure Controls

Appropriate Engineering Controls:

Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Personal Protective Equipment:

Protective clothing. Eye protection. Gloves.



Materials for Protective Clothing:

Thermally protective materials and fabrics when melting or burning material.

Hand Protection:

Wear cut resistant gloves when cutting material; wear thermally insulated/heat resistant gloves when melting material.

Eye Protection:

Safety goggles or safety glasses. A face shield should be worn when working with molten material.

Respiratory Protection:

Not normally required. Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits and/or ventilation is insufficient.

Thermal Hazard Protection:

Wear suitable protective clothing.

Other Information:

When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State	: Solid
Appearance	: Clear Film
Odor	: No data available
Odor Threshold	: No data available
pH	: No data available
Evaporation Rate	: No data available
Melting Point	: 250 °C (482°F)
Freezing Point	: No data available
Boiling Point	: No data available
Flash Point	: No data available
Auto-ignition Temperature	: No data available
Decomposition Temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor Pressure	: No data available

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (CONT.)

Relative Vapor Density at 20 °C	: No data available
Relative Density	: No data available
Specific Gravity	: 1.4
Solubility	: Water: Insoluble
Partition Coefficient: N-Octanol/Water	: No data available
Viscosity	: No data available

9.2. Other Information No additional information available

SECTION 10: STABILITY AND REACTIVITY

- 10.1. **Reactivity:** Hazardous reactions will not occur under normal conditions.
- 10.2. **Chemical Stability:** Stable under recommended handling and storage conditions (see Section 7).
- 10.3. **Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.
- 10.4. **Conditions to Avoid:** Direct sunlight. Extremely high or low temperatures. Sources of ignition. Incompatible materials.
- 10.5. **Incompatible Materials:** Strong acids. Strong bases. Strong oxidizers.
- 10.6. **Hazardous Decomposition Products:** Carbon oxides (CO, CO₂). Acrid smoke and irritating fumes. Toxic fumes.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information On Toxicological Effects

Acute Toxicity: Not classified

CAS No.	Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
25038-59-9	Polyethylene Terephthalate	No data available	No data available	No data available	No data available	No data available

Skin Corrosion/Irritation: Not classified

Serious Eye Damage/Irritation: Not classified

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Carcinogenicity: Not classified

CAS No.	Ingredient	Source							
		OSHA	NTP		IARC				
		Select Carcinogen	Known Carcinogen	Suspected Carcinogen	Group 1	Group 2A	Group 2B	Group 3	Group 4
25038-59-9	Polyethylene Terephthalate	No	No	No	No	No	No	No	No

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Fumes from decomposition may cause adverse effects.

Symptoms/Injuries After Skin Contact: Risk of thermal burns on contact with molten material.

Symptoms/Injuries After Eye Contact: Particulates, dust and decomposition products may cause eye irritation.

Symptoms/Injuries After Ingestion: Ingestion may have adverse effects.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity Not classified

Aquatic Ecotoxicity

CAS No.	Ingredient	96 hr LC50 fish, mg/L	48 hr EC50 crustacea, mg/L	ErC50 algae, mg/L
25038-59-9	Polyethylene Terephthalate	Not available	Not available	Not available

12.2. Persistence and Degradability

Polyester Film Lumirror®	
Persistence and Degradability	Not established.

Polyester Film Lumirror®

Safety Data Sheet – SDS # R-018

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 12: ECOLOGICAL INFORMATION (CONT.)

12.3. Bioaccumulative Potential

Polyester Film Lumirror®

Bioaccumulative Potential	Not established.
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12.4. Mobility in Soil No additional information available

12.5. Results of PBT and vPvB Assessment This product contains no PBT/vPvB chemicals.

12.6. Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.

SECTION 14: TRANSPORT INFORMATION

	DOT (Domestic Surface Transportation)	IMO/IMDG (Ocean Transportation)	ICAO/IATA
14.1. UN Number	Not Applicable	Not Regulated	Not Regulated
14.2. UN Proper Shipping Name	Not Regulated	Not Regulated	Not Regulated
14.3. Transport Hazard Classes	DOT Hazard Class: Not Applicable	IMDG: Not Applicable Sub Class: Not Applicable	Air Class: Not Applicable
14.4. Packing Group	Not Applicable	Not Applicable	Not Applicable
14.5. Environmental Hazards		IMDG Marine Pollutant: No	
14.6. Special Precautions for Users	No further information		

SECTION 15: REGULATORY INFORMATION

The regulatory data in this Section is not intended to be all-inclusive – only selected regulations are represented.

15.1 US Federal Regulations

Toxic Substances Control Act (TSCA) All components of this material are either listed or exempt from listing on the TSCA inventory

WHMIS Classification Not Regulated

US EPA Tier II Hazards

Immediate (Acute):	No
Delayed (Chronic):	No
Fire:	No
Reactive:	No
Sudden Release of Pressure	No

EPCRA Sections 311/312 Chemicals and Reportable Quantities:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA Section 302 Extremely Hazardous Substances:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA Section 313 Toxic Chemicals:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

15.2 US State Regulations

New Jersey Right to Know Substances (>1%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Pennsylvania Right to Know Substances (>1%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision Date	: 04/21/2025
Other Information	: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200. This material is considered an article under 29 CFR 1910.1200. The specific chemical identity and/or exact percentage of composition has been withheld as a trade secret.

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