

Montachem International Inc.

## Material Safety Data Sheet

### 1. PRODUCT IDENTIFICATION

**Product Name:** Exelene® LLDPE Plastic Resin  
**Synonyms:** Linear low-density polyethylene, LLDPE, PE  
**Origin:** United States of America  
**Supplier:** Montachem International, Inc  
**E-Mail:** info@montachem.com

**Product Code:** All grades  
**Product Use:** Resin, extrusion and compounding, plastic molding, molded articles, films and coatings.  
**Physical Description:** Translucent, white pellets

### 2. HAZARD IDENTIFICATION

**Emergency Overview:**

- Solid particles may cause transient irritation from mechanical abrasion.
- Molten material may cause thermal burns.
- Dust may form an explosive atmosphere when dispersed in air.

### 3. PRODUCT INGREDIENTS


Components	Percent (%)
<b>Ethylene Butene Copolymer</b>	98+
CAS Number:	25087-34-7
GHS Classification:	Not hazardous according to GHS criteria.

Components	Percent (%)
<b>Ethylene-hexene Copolymer</b>	<95%
	±3%
<b>Additives</b>	±2%
CAS Number:	25213-02-9
GHS Classification:	Not hazardous according to GHS criteria.

#### 4. FIRST AID MEASURES

<b>Eye Contact:</b>	Immediately flush eyes with water for at least 15 minutes. Hold eyelids open to ensure adequate flushing. Do not rub the eyes. Get medical attention if irritation develops.
<b>Skin Contact:</b>	Wash affected skin area with soap and water. Get medical attention if irritation develops.
<b>Inhalation:</b>	Remove to fresh air. Get medical attention if irritation or other symptoms develop.
<b>Ingestion:</b>	If ingested, dilute swallowed material by drinking water. Never give anything by mouth to an unconscious person. Get medical attention if irritation or other symptoms develop.
<b>Other Instructions:</b>	Treat symptomatically and supportively.

#### 5. FIRE-FIGHTING MEASURES

<b>Flash Point:</b>	Not applicable	
<b>Extinguishing Media:</b>	Dry chemical, foam, water or carbon dioxide.	
<b>Special Fire Fighting Procedure:</b>	In the event of a fire, wear a NIOSH (US) or CEN (EU) approved, positive pressure, self-contained breathing apparatus (SCBA) and full protective clothing. Evacuate all non-essential personnel from the danger area.	
<b>Unusual Fire and Explosion Hazards:</b>	Product is supplied as pellets. However, if product is ground, dust may form an explosive atmosphere when dispersed in air.	
<b>Hazardous Combustion Products</b>	When forced to burn, the major gaseous products of the combustion of plastic resin are carbon monoxide and carbon dioxide.	

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions:</b>	Restrict access to keep out unauthorized or unprotected personnel. Wear appropriate personal protective equipment during all clean-up activities. Avoid inhalation and direct contact.
<b>Environmental Precautions:</b>	Keep spilled material away from heat, sparks and open flames. Ensure adequate ventilation.
<b>Methods for Clean-Up:</b>	Collect spilled material using a method that minimizes dust generation (e.g., wet methods, HEPA vacuum). Place waste in an appropriate container for disposal. Use care during clean-up to avoid exposure to the material and injury from broken containers.

## 7. HANDLING AND STORAGE

- Handling:** Use with adequate ventilation. Avoid dust generation. Avoid contact with eyes and skin. Accumulations of dust should be removed from settling areas.
- Storage:** Store in a cool, dry, well-ventilated area or silo away from sources of heat, flame and sparks. Ventilate enclosed storage areas, such as trailers and railcars, before entering. Have emergency equipment for fires and spills readily available.

## 8. EXPOSURE CONTROLS & PERSONAL PROTECTION

- Eye Protection:** Wear safety glasses with side shields, goggles or face shield.
- Skin Protection:** Wear appropriate gloves when handling hot material.
- Respiratory Protection:** None required under normal conditions of use.
- Engineering Controls:** Use local exhaust ventilation during dust producing operations.
- Required Work/Hygiene Procedure:** Wash hands thoroughly after handling. Do not eat, drink or smoke in work area. If unusual exposures are expected, an industrial hygiene review of work practices, engineering controls and personal protective equipment is recommended.

### Exposure Guidelines:

OSHA PEL-TWA:	15 mg/m <sup>3</sup> (total dust), 5 mg/m <sup>3</sup> (respirable dust)
ACGIH TLV-TWA:	10 mg/m <sup>3</sup> (total dust), 3 mg/m <sup>3</sup> (respirable dust)

## 9. PHYSICAL / CHEMICAL PROPERTIES

<b>Physical Form:</b>	Pellets or granular powder
<b>Color:</b>	Translucent white
<b>Odor:</b>	Odorless
<b>Molecular Weight:</b>	Not determined
<b>Boiling Point:</b>	Not determined
<b>Freezing Point:</b>	Solid material
<b>Solubility in Water:</b>	Insoluble
<b>Specific Gravity:</b>	0.89 – 0.98 ( <i>water = 1</i> )
<b>Vapor Density:</b>	Not applicable ( <i>air = 1</i> )
<b>Evaporation Rate:</b>	Not applicable ( <i>butyl acetate = 1</i> )
<b>Vapor Pressure:</b>	Not determined
<b>% Volatile:</b>	Not applicable
<b>pH:</b>	Not determined

The physical data included above are typical values and should not be construed as a specification.

## 10. STABILITY & REACTIVITY

- Stability:** Stable under recommended storage conditions.

<b>Conditions to Avoid:</b>	Keep away from strong oxidizing agents.
<b>Hazardous Decomposition:</b>	Not expected to occur.
<b>Hazardous Polymerization:</b>	Not expected to occur.

## 11. TOXICOLOGY INFORMATION

**Primary Route(s) of Exposure:** Eye and skin contact.

**Potential Health Effects:**

Eye Contact:	Solid particles may cause transient irritation from mechanical abrasion.
Skin Contact:	Not expected to cause skin irritation. Molten material may cause thermal burns.
Inhalation:	Not a likely route of exposure. Process fumes may cause irritation.
Ingestion:	May cause a choking hazard if swallowed.

**Carcinogenicity:** The components of this product are not classified as carcinogenic by OSHA, NTP or IARC.

**Medical Conditions Aggravated by Overexposure:** Exposure may aggravate disorders of the eyes, skin, gastrointestinal tract, and respiratory system.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** No data are available on the adverse effects of this material on the environment.

## 13. DISPOSAL CONSIDERATIONS

**Disposal Method:** This product must be disposed of in accordance with Federal, state and local environmental regulations.

**Recycling/Reclamation:** Recycling or reclamation of polyethylene resins should be encouraged where possible.

## 14. TRANSPORTATION INFORMATION

This product is not regulated as a hazardous material/dangerous good for all forms of transportation.

<b>Proper Shipping Name:</b>	Not listed.
<b>Hazard Label:</b>	Not applicable
<b>Hazard Class:</b>	Not regulated
<b>UN/NA Number:</b>	Not applicable
<b>Hazard Placard(s):</b>	Not applicable
<b>Packing Group:</b>	Not applicable
<b>EPA Reportable Quantity (RQ):</b>	Not applicable
<b>Emergency Response Guide:</b>	Not applicable

## 15. REGULATORY INFORMATION

### U.N. GHS Classification & Labeling Information:

Classification: Not hazardous according to GHS criteria.

### NEPA 704 Information:

Health Rating: 0  
Flammability Rating: 1  
Reactivity Rating: 0  
Other Hazards: Not applicable

### U.S. Federal Regulatory Information:

EPA Clean Air Act: Not listed  
EPA Clean Water Act: Not listed  
TSCA: The ingredients of this product are listed on TSCA inventory (40 CFR 710).  
RCRA: This product as supplied is not considered a RCRA hazardous waste.  
CERCLA RQ: Not listed  
SARA Title III § 302: None  
SARA Title III § 311/312: None  
SARA Title III § 313: Not listed

### European Union Regulatory Information:

Classification: Not hazardous according to EU criteria.

### Canadian Regulatory Information:

Classification: Not hazardous according to WHMIS  
criteria. Domestic Substances List (DSL): Listed

## 16. OTHER INFORMATION

Prepared By: Montachem International Inc.

### **Disclaimer & Copyright Notice**

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Montachem International Inc. at the time it was prepared. Neither Montachem International Inc. nor any of its subsidiaries assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, Montachem International Inc. and its subsidiaries cannot guarantee that these are the only hazards that exist. Montachem International Inc. assumes no legal responsibility for loss, damage or expense arising out of, or in any way connected with, the handling, storage, use or disposal of this product.