## Safety Data Sheet



Section 1: Identification of the Substance/Mixture and of the Company/Undertaking		
1.1 Product identifier		
Product Name	Epolene® Polyethylene Polymers Powder	
Synonyms	Polyethylene; Ethylene Homopolymer; Ethene Polymer; Polyethylene Wax	
<b>REACH Registration Number</b>	01-2119462827-27-XXXX	
Product Grades	C-10P, C-13P, C-15P, C-17P, C-23P, N-10P, N-11P, N-14P, N-21P, N-34P	
1.2 Relevant identified uses	s of the substance or mixture and uses advised against	
Relevant identified use(s)	Plastic molding, film, laminating, coating.	
1.3 Details of the supplier of	of the safety data sheet	
Manufacturer	Westlake Polymers LLC 2801 Post Oak Blvd. Houston, TX 77056 United States www.westlake.com	
Telephone (General)	713-960-9111	
1.4 Emergency telephone r	number	
	800-424-9300 – CHEMTREC	
Section 2: Hazards Identifie	cation	

#### EU/EEC

According to Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 830/2015] According to EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

## 2.1 Classification of the substance or mixture

CLP DSD/DPD		<ul><li>Not classified</li><li>Not classified</li></ul>
2.2 Label Eleme	nts	
CLP	Hazard	<ul> <li>No label element(s) required</li> </ul>
DSD/DPD	Risk phrases	<ul> <li>No label element(s) required</li> </ul>
2.3 Other Hazard	ds	
CLP	•	bustible dust concentrations in air. Regulation (EC) No. 1272/2008 (CLP) this material is not considered hazardous.
DSD/DPD	<ul> <li>May form com</li> </ul>	bustible dust concentrations in air.

## United States (US)

According to OSHA 29 CFR 1910.1200 HCS

## 2.1 Classification of the substance or mixture

		Westlake Internal SDS #: PE037
OSHA HCS 2012		Combustible Dust
2.2 Label elem	ients	
OSHA HCS 2012	Hazard	WARNING
	statements	May form combustible dust concentrations in air
2.3 Other haza	ards	
OSHA HCS 2012		<ul> <li>Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.</li> </ul>
According to WH	MIS 2015	
2.1 Classificat		stance or mixture
2.1 Classificat WHMIS 2015		• Combustible Dust
	tion of the subs	
WHMIS 2015	tion of the subs	
WHMIS 2015 2.2 Label elem	tion of the subs	Combustible Dust
WHMIS 2015 2.2 Label elem	tion of the subs nents Hazard statements	<ul> <li>Combustible Dust</li> <li>WARNING</li> </ul>

See Section 12 for Ecological Information.

### Section 3 - Composition/Information on Ingredients

#### 3.1 Substances

Composition		
Chemical Name	Identifiers (CAS)	%
Polyethylene	9002-88-4	100

In Canada, the product mentioned above is considered hazardous under the

Workplace Hazardous Materials Information System (WHMIS).

### 3.2 Mixtures

Skin

Eye

• Material does not meet the criteria of a mixture in accordance with Regulation (EC) No 1272/2008.

### Section 4 - First Aid Measures

#### 4.1 Description of first aid measures

Inhalation	<ul> <li>IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position</li> </ul>
	comfortable for breathing. Give artificial respiration if victim is not breathing. If signs/symptoms
	continue, get medical attention.

- For thermal burns, flush or submerge effected area in cold water to dissipate heat. Cover with clean bandage material. Do not peel material from skin. Get medical attention. For contact at ambient temperatures, wash with soap and water.
  - If dust or molten material contacts the eye, immediately flush with plenty of water for at least 15 minutes. If irritation persists, get medical attention immediately.
- First aid is not expected to be necessary if material is used under ordinary conditions and as recommended.

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

• Refer to Section 11 - Toxicological Information.

#### 4.3 Indication of any immediate medical attention and special treatment needed

• Burns should be treated as thermal burns. The material will come off as healing occurs; therefore, immediate removal from the skin is not necessary.

## **Section 5 - Firefighting Measures**

#### 5.1 Extinguishing media

Suitable Extinguishing Media	•	Water fog,	dry che	emical, foam,	carbon dioxide.
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Unsuitable Extinguishing Media • None known.

#### 5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards	<ul> <li>Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.</li> </ul>
Hazardous Combustion Products 5.3 Advice for firefighters	Carbon dioxide, carbon monoxide, formaldehyde, acetaldehyde, irritating smoke.
	<ul> <li>Wear positive pressure self-contained breathing apparatus (SCBA).</li> <li>Structural firefighters' protective clothing will only provide limited protection.</li> </ul>

#### Section 6 - Accidental Release Measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions Emergency Procedures	<ul> <li>Do not walk through spilled material. Do not breathe dust. Avoid contact with skin and eyes. Wear appropriate personal protective equipment, avoid direct contact.</li> <li>Contain spill and monitor for excessive dust accumulation. Avoid unnecessary personnel and equipment traffic in the spill area. Ventilate closed spaces before</li> </ul>
	entering.
6.2 Environmental precau	utions
	No special environmental precautions necessary.
6.3 Methods and material	for containment and cleaning up
Containment/Clean-up Measures	<ul> <li>Avoid generating dust.</li> <li>Use clean nonsparking tools to collect material.</li> <li>Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.</li> </ul>
6.4 Reference to other se	ctions
	Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 -

Disposal Considerations.

#### Section 7 - Handling and Storage

#### 7.1 Precautions for safe handling

Handling

- Avoid contact with molten material; do not breathe fumes, vapors, dust or sprays from molten or burning material. When processing at > 600°F (315°C), consider use of a respirator to avoid breathing decomposition products.
  - Do not use in areas without adequate ventilation. Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
  - Use appropriate Personal Protective Equipment (PPE) Avoid contact with skin and eyes. Do not breathe dust. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

## 7.2 Conditions for safe storage, including any incompatibilities

- Storage
- Keep container closed and in ventilated area, away from ignition sources, heat, open flames, and direct sunlight. Do not store with incompatible materials.

## 7.3 Specific end use(s)

Refer to Section 1.2 - Relevant identified uses

## 7.4 Other Information

 For prevention of fire and explosion, keep from contact with incompatible materials. Minimize dust generation and accumulation. Because product may accumulate a static charge, use proper bonding and/or grounding procedures prior to transfer. In the United States of America, refer to NFPA® Pamphlet No. 654, "Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, 2006 edition."

## Section 8 - Exposure Controls/Personal Protection

## 8.1 Control parameters **Exposure Limits/Guidelines**

- No applicable exposure limits available for product or components. 8.2 Exposure controls **Engineering Measures/Controls** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory and eye protection may be needed in
- **Personal Protective Equipment**
- Respiratory For limited exposure use an N95 dust mask. For prolonged exposure use an airpurifying respirator with high efficiency particulate air (HEPA) filters. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced. Eye/Face

generation of dusts, drying of solids, etc.

- Wear safety goggles.
- Wear thermally resistant gloves and long sleeves when handling molten product.

special circumstances; such as poorly ventilated spaces, very hot processing, evaporation of liquids from large surfaces, spraying of mists, mechanical

- Wear long sleeves and/or protective coveralls.
- Follow best practice for site management and disposal of waste.

**Environmental Exposure** Controls

Hands

Skin/Body

## Section 9 - Physical and Chemical Properties

## 9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Solid	Appearance/Description	A translucent to whitish solid with an odorless to mild odor.
Color	Translucent to whitish.	Odor	Odorless to mild.
Odor Threshold	NDA		
General Properties			
Boiling Point	NDA	Melting Point	100 to 120 C(212 to 248 F)
Decomposition Temperature	>300 C (573 F) (estimated)	рН	NDA
Specific Gravity/Relative Density	0.90 to 0.92 Water=1	Water Solubility	Negligible.
Viscosity	NDA	Explosive Properties	Not Explosive.
Oxidizing Properties:	Not an oxidizer.		

Epolene®
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Volatility				
Vapor Pressure	NDA	Vapor Density	NDA	
Evaporation Rate	NDA			
Flammability				
Flash Point	343 C(649.4 F) (estimated)	UEL	NDA	
LEL	NDA	Autoignition	NDA	
Flammability (solid, gas)	Not Flammable.			
Environmental				
Octanol/Water Partition coefficient	NDA			

## 9.2 Other Information

• No additional physical and chemical parameters noted.

## Section 10: Stability and Reactivity

#### 10.1 Reactivity

• No dangerous reaction known under conditions of normal use.

#### **10.2 Chemical stability**

• Stable under normal temperatures and pressures.

### **10.3 Possibility of hazardous reactions**

• Hazardous polymerization not indicated.

### 10.4 Conditions to avoid

• Heat, sparks, open flame.

#### **10.5 Incompatible materials**

• Strong oxidizing agents, fluorine.

### **10.6 Hazardous decomposition products**

• No data available

### **Section 11 - Toxicological Information**

### 11.1 Information on toxicological effects

GHS Properties	Classification
Acute toxicity	EU/CLP • OSHA HCS 2012 • WHMIS 2015 • Acute Toxicity - Dermal - NDA; Acute Toxicity - Inhalation - Inconclusive data
Aspiration Hazard	EU/CLP • OSHA HCS 2012 • WHMIS 2015 •Not relevant
Carcinogenicity	EU/CLP • OSHA HCS 2012 • WHMIS 2015 • Classification criteria not met
Germ Cell Mutagenicity	EU/CLP • OSHA HCS 2012 • WHMIS 2015 • Classification criteria not met
Skin corrosion/Irritation	EU/CLP • OSHA HCS 2012 • WHMIS 2015 • Classification criteria not met
Skin sensitization	EU/CLP • OSHA HCS 2012 • WHMIS 2015 • Classification criteria not met
STOT-RE	EU/CLP • OSHA HCS 2012 • WHMIS 2015 •NDA
STOT-SE	EU/CLP • OSHA HCS 2012 • WHMIS 2015 •NDA
Toxicity for Reproduction	EU/CLP • OSHA HCS 2012 • WHMIS 2015 • Classification criteria not met
Respiratory sensitization	EU/CLP • OSHA HCS 2012 • WHMIS 2015 • Classification criteria not met
Serious eye damage/Irritation	EU/CLP • OSHA HCS 2012 • WHMIS 2015 • Classification criteria not met

#### Route(s) of entry/exposure

• Inhalation, Skin, Eye, Ingestion

# Medical Conditions Aggravated by Exposure

• Disorders of the lungs.

Epolene®	Westlake Internal SDS #: PE037
Potential Health Effects Inhalation	
Acute (Immediate)	<ul> <li>Exposure to dust may cause irritation. Processes such as cutting, grinding, crushing, or impact may result in generation of excessive amounts of airborne dusts in the workplace. Nuisance dust may affect the lungs but reactions are typically reversible.</li> </ul>
Chronic (Delayed)	• Prolonged exposure to the dust may cause wheezing, chest tightness, productive cough nasal irritation and symptoms of chronic respiratory disease.
Skin	
Acute (Immediate)	<ul> <li>Exposure to dust may cause mechanical irritation.</li> </ul>
Chronic (Delayed) Eye	No data available.
Acute (Immediate)	<ul> <li>Exposure to dust may cause mechanical irritation. Excessive concentrations of nuisance dust in the workplace may reduce visibility and may cause unpleasant deposits in eyes.</li> </ul>
Chronic (Delayed)	No data available.
Ingestion	
Acute (Immediate)	<ul> <li>Excessive concentrations of nuisance dust in the workplace may cause mechanical irritation to mucous membranes.</li> </ul>
Chronic (Delayed)	No data available

## Section 12 - Ecological Information

## 12.1 Toxicity

NDA

## 12.2 Persistence and degradability

NDA

### 12.3 Bioaccumulative potential

NDA

### 12.4 Mobility in Soil

NDA

### 12.5 Results of PBT and vPvB assessment

• PBT and vPvB assessment has not been carried out.

## 12.6 Other adverse effects

NDA

## **Section 13 - Disposal Considerations**

### 13.1 Waste treatment methods

**Product waste** 

Dispose of content and/or container in accordance with local, regional, national,

**Packaging waste** 

- and/or international regulations.
- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## **Section 14 - Transport Information**

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	NDA	Not regulated	NDA	NDA	NDA

TDG	NDA	Not regulated	NDA	NDA	NDA
IMO/IMDG	NDA	Not regulated	NDA	NDA	NDA
IATA/ICAO	NDA	Not regulated	NDA	NDA	NDA

#### 14.6 Special precautions for user

• None known.

#### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code • Not relevant.

## Section 15 - Regulatory Information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture **SARA Hazard Classifications** None Inventories These products comply with the following inventories: Australia AICS Canada DSL/NDSL China **EU EINECS/ ELNICS** Japan ENCS Korea KECI New Zealand **Philippines PICCS USA TSCA California Prop 65** In compliance, no reportable substances **CERCLA** In the event of a spill, the end user should verify whether reporting is required under local, state, and/or federal regulations. CONEG These products are in compliance with the heavy metals requirements of the • Coalition of Northeastern Governors and California Toxics in Packaging Prevention Act (AB2021). **Ozone Depleting Substances** In compliance with 40 CFR 82, no reportable substances. RCRA In the form delivered by Westlake, these products are not considered as hazardous waste, and are not subject to reporting under the Resource Conservation and Recovery Act. **WGK Classification** Non-hazardous to water (nwg) **15.2 Chemical Safety Assessment**

• No Chemical Safety Assessment has been carried out.

Section 16 - Other Information			
Last Revision Date	08/February/2018		
Preparation Date	21/January/2014		
For Other Information	Contact Westlake Polymers LLC Customer Service 1-800-545-9577 (Monday-Friday, 7:30am-5:00pm - central standard time)		
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Key to abbreviations NDA = No data available