

# ALATHON® L5840

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name:** ALATHON® L5840

**Number:** 000000000000001135

**Chemical characterization:** Polyethylene copolymer

**CAS-No.:** 25087-34-7

**Chemical Name:** 1-Butene, polymer with ethene

**Synonyms:** Polyethylene, PE, Ethene/butene Copolymer

**Company Address**

Equistar Chemicals, LP  
One Houston Center, Suite 700  
1221 McKinney St.  
P.O. Box 2583  
Houston Texas 77252-2583

**Company Telephone**

Customer Service  
888 777-0232  
Product Safety  
800 700-0946  
product.safety@lyondellbasell.com

**Emergency telephone**

CHEMTREC USA 800-424-9300  
EQUISTAR 800-245-4532

## 2. HAZARDS IDENTIFICATION

***Emergency Overview***

This material is NOT HAZARDOUS by OSHA Hazard Communication definition. Trade secret chemical identities will be revealed to treating physicians in an emergency, or to a health professional, employee or designated representative in non-emergency situations after execution of a secrecy agreement.

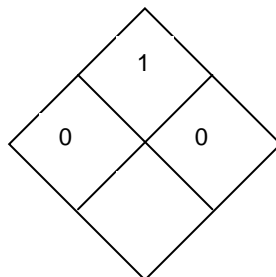
**Signal Word**

CAUTION.

**Hazards**

Dust may form explosive mixtures with air. At process temperatures irritating fumes may be produced. Molten polymer may cause thermal burns.

NFPA®



HMIS®

Health	0
Flammability	1
Physical Hazard	0

**Physical state**

solid

**Color**

translucent to white

# ALATHON® L5840

**Odor**

Faint, mild hydrocarbon odor.

**Odor Threshold**

No value available.

**Potential health effects**
**Routes of exposure**

Eye. Inhalation. Skin.

**Acute effects**

See component summary.

- *1-Butene, polymer with ethene 25087-34-7*

Hot material may cause thermal burns. At process temperatures, irritating fumes may cause soreness in the nose and throat; coughing may result. Mechanical irritation is possible.

- *Proprietary*

No known acute health effects.

**Skin**

Molten polymer may cause thermal burns.

**Inhalation**

Inhalation of process fumes and vapors may cause soreness in the nose and throat and coughing. "Nuisance dust" such as polymer dust typically exhibit no significant health effect when they are reasonably controlled. Exposure to high concentrations of dust may cause slight irritation by mechanical action.

**Eyes**

Mechanical irritation is possible.

**Ingestion**

Ingestion not a likely route of exposure.

**Chronic effects**

See component summary.

- *1-Butene, polymer with ethene 25087-34-7*

No known chronic health effects.

- *Proprietary*

No known chronic health effects.

**Aggravated Medical Condition**

No known conditions are aggravated by this material.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS-No.</u>	<u>EC-No.</u>	<u>Weight %</u>
1-Butene, polymer with ethene	25087-34-7	Monomers Are EINECS Listed	98.0 <= 100.0
Proprietary	Proprietary Additive	Additives are EINECS listed	<= 2.0

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Typical composition

## 4. FIRST AID MEASURES

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### General advice

Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid. For specific information refer to the Emergency Overview in Section 2 of this MSDS.

### Skin

If molten material contacts the skin, immediately flush with large amounts of water to cool the affected tissue and polymer. Do not attempt to peel polymer from skin. Obtain emergency medical attention.

### Inhalation

If symptoms are experienced, move victim to fresh air. Remove person to fresh air. If signs/symptoms continue, get medical attention.

### Eyes

Flush eyes thoroughly with water for several minutes and seek medical attention if discomfort persists.

### Ingestion

Adverse health effects due to ingestion are not anticipated.

### Notes to physician

Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient. Treat burns or allergic reactions conventionally after decontamination.

## 5. FIRE-FIGHTING MEASURES

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### Flammable properties

#### Classification

Not Classified. Polymer will burn but does not easily ignite.

#### Flash point

Not applicable.

#### Autoignition temperature

343 °C (649.4 °F)

#### Lower explosion limit

Not applicable.

#### Upper explosion limit

Not applicable.

### Extinguishing Media

#### Suitable extinguishing media

SMALL FIRE: Use DRY chemicals, CO<sub>2</sub>, water spray LARGE FIRES: Use large quantities of water spray.

### Protective equipment and precautions for firefighters

Protective equipment and precautions for firefighters

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Wear an approved positive pressure self-contained breathing apparatus and firefighter turnout gear.

### Precautions for fire-fighting

Polyolefin dust particles in the atmosphere are combustible and may be explosive. Avoid sparks, heat, and open flame.

### Hazardous combustion products

Carbon monoxide, olefinic and paraffinic compounds, trace amounts of organic acids, ketones, aldehydes and alcohols may be formed.

## 6. ACCIDENTAL RELEASE MEASURES

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### Spills and leaks

Avoid generating dust. Potential dust explosion hazard. Use only non-sparking tools. Material creates dangerous slipping hazard on hard surfaces. Pick up and retain for recycle or disposal.

## 7. HANDLING AND STORAGE

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### Handling

Keep away from heat and sources of ignition. Use with adequate ventilation. Spilled material can make walking hazardous, potentially causing falls and serious injury. After handling, always wash hands thoroughly with soap and water.

### Storage

Keep container dry. Store away from excessive heat and away from strong oxidizing agents. Keep container closed to prevent contamination.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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### Engineering Controls

Ventilate area to prevent accumulation of dust and fumes.

### Personal protective equipment

#### Inhalation

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. Use appropriate respiratory protection where atmosphere exceeds recommended limits.

#### Skin

Use chemical resistant gloves appropriate to conditions of use. Wear heat protective gloves and clothing if there is a potential for contact with heated material. Wear suitable protective clothing.

#### Eyes

Dust service goggles should be worn to prevent mechanical injury or other irritation to eyes due to airborne particles which may result from handling this product.

### Remarks

Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the hazards and/or potential hazards that may be encountered during use. Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Take off contaminated clothing and wash before reuse.

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**Remarks**

Material spilled on hard surface can be a serious slipping/falling hazard. Use care in walking on spilled material.

**Occupational Exposure Limits**

Consult local authorities for acceptable exposure limits.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

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**Appearance:** solid translucent, to, white

**Odor:** Faint, mild hydrocarbon odor.

**Odor Threshold:** No value available.

**pH:** Not applicable.

**Boiling point/boiling range:** Not applicable.

**Melting/freezing point:** 104 - 138 °C (219.2 - 280.4 °F)

**Flash point:** Not applicable.

**Autoignition temperature:** 343 °C (649.4 °F)

**Flammability:** Not Classified. Polymer will burn but does not easily ignite.

**Lower explosion limit:** Not applicable.

**Upper explosion limit:** Not applicable.

**Explosive properties:** No Data Available.

**Oxidizing properties:** No Data Available.

**Vapor pressure:** Not applicable.

**Evaporation rate:** Not applicable.

**Relative density:** 0.91 - 0.98 (water=1)

**Relative vapor density:** Not applicable.

**Viscosity:** Not applicable.

**Water solubility:** Insoluble.

**Partition coefficient: n-octanol/water:** No Data Available.

**Other physico-chemical properties:** No additional information available.

### 10. STABILITY AND REACTIVITY

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**Chemical stability**

The product is stable.

**Conditions to avoid**

Avoid contact with strong oxidizers, excessive heat, sparks or open flame.

**Materials to avoid**

Material may be softened by some hydrocarbons.

**Hazardous decomposition products**

Not expected to decompose under normal conditions.

**Hazardous polymerization**

Will not occur.

**Reactions with Air and Water**

Does not react with air, water or other common materials.

## 11. TOXICOLOGICAL INFORMATION

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### Product information

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**Product Summary**

See components summary.

### COMPONENT INFORMATION

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- *1-Butene, polymer with ethene* 25087-34-7

**Acute effects**
Inhalation

Rats inhaling polyethylene dust developed mild inflammatory changes in the lungs.

Ingestion

No adverse health effects were noted on the digestive system of test animals when fed up to 20% polyethylene.

**Repeated dose toxicity**

Subchronic, 50-90 day, feeding studies conducted on rats, dogs and swine showed no effects from dietary levels of 1-20% powdered and shredded polyethylene.

**Carcinogenicity**

Not listed by IARC, NTP, OSHA or EPA.

- *Proprietary*

**Repeated dose toxicity**

No known chronic health effects.

**Carcinogenicity**

Not listed by IARC, NTP, OSHA or EPA.

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### 12. ECOLOGICAL INFORMATION

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#### Product information

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#### Ecotoxicity

See componentsummary.

#### Environmental fate and pathways

See componentsummary.

#### COMPONENT INFORMATION

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- *1-Butene, polymer with ethene 25087-34-7*

#### Ecotoxicity

Ecotoxicity is expected to be minimal based on the low water solubility of polymers.

#### Environmental fate and pathways

This material is not volatile and insoluble in water.

#### Persistence and degradability

Biodegradation: This material is expected to be resistant to biodegradation.

Bioaccumulation: Not expected to occur.

- *Proprietary*

#### Ecotoxicity

No Data Available.

#### Environmental fate and pathways

No Data Available.

### 13. DISPOSAL CONSIDERATIONS

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All recovered material should be packaged, labeled, transported and disposed of or reclaimed in conformance with applicable laws and regulations and in conformance with good engineering practices. Reclaim where possible. Dispose of as hazardous waste in compliance with local and national regulations.

### 14. TRANSPORT INFORMATION

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## ALATHON® L5840

**Special Provisions**

If you reformulate or further process this material, you should consider re-evaluation of the regulatory status of the components listed in the composition section of this sheet, based on final composition of your product.

**Proper shipping name** POLYETHYLENE, OTHER THAN LIQUID, not regulated

## 15. REGULATORY INFORMATION

**Notification status**

All ingredients are on the following inventories or are exempted from listing

Country	Notification
Australia	AICS
Canada	DSL
China	IECS
European Union	EINECS
Japan	ENCS/ISHL
Korea	ECL
Philippines	PICCS
United States of America	TSCA

Contact [product.safety@lyondellbasell.com](mailto:product.safety@lyondellbasell.com) for additional global inventory information.

If identified components of this product are listed under the TSCA 12(b) Export Notification rule, they will be listed below.

**SARA 302/304**

This product contains no known chemicals regulated under SARA 302/304.

**SARA 311/312**

Based upon available information, this material is not classified as a health and/or physical hazard according to Section 311 & 312.

**SARA 313**

This product contains no known chemicals regulated under SARA 313.

**State Reporting**

This product contains no known chemicals regulated by California's Proposition 65.

This product contains no known chemicals regulated by New Jersey's Worker and Community Right to Know Act.

No components are subject to the Massachusetts Right to Know Act.

This product contains no known chemicals regulated by Pennsylvania's Right to Know Act.

## 16. OTHER INFORMATION

**Material safety datasheet sections which have been updated:**

Revised Section(s): 3 Date of Revision: November 19 2009



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**Disclaimer**

CAUTION DO NOT USE EQUISTAR CHEMICALS, LP MATERIALS IN APPLICATIONS INVOLVING IMPLANTATION WITHIN THE BODY; DIRECT OR INDIRECT CONTACT WITH THE BLOOD PATHWAY; CONTACT WITH BONE, TISSUE, TISSUE FLUID, OR BLOOD; OR PROLONGED CONTACT WITH MUCOUS MEMBRANES. EQUISTAR CHEMICALS, LP MATERIALS ARE NOT DESIGNED OR MANUFACTURED FOR USE IN IMPLANTATION IN THE HUMAN BODY OR IN CONTACT WITH INTERNAL BODY FLUIDS OR TISSUES. EQUISTAR CHEMICALS, LP WILL NOT PROVIDE TO CUSTOMERS MAKING DEVICES FOR SUCH APPLICATIONS ANY NOTICE, CERTIFICATION OR INFORMATION NECESSARY FOR SUCH MEDICAL DEVICE USE REQUIRED BY FDA REGULATION OR ANY OTHER STATUTE. EQUISTAR CHEMICALS, LP MAKES NO REPRESENTATION, PROMISE, EXPRESS WARRANTY OR IMPLIED WARRANTY CONCERNING THE SUITABILITY OF THESE MATERIALS FOR USE IN IMPLANTATION IN THE HUMAN BODY OR IN CONTACT WITH INTERNAL BODY TISSUES OR FLUIDS.

Information is correct to the best of our knowledge at the date of the MSDS publication.

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**Numerical Data Presentation**

The presentation of numerical data, such as that used for physical and chemical properties and toxicological values, is expressed using a comma (,) to separate digits into groups of three and a period (.) as the decimal marker. For example, 1,234.56 mg/kg = 1 234,56 mg/kg.

**Language Translations**

This document may be available in languages other than English.

**End of Material Safety Data Sheet**