

**Petrothene NA345196**

Version 1.1      Revision Date: 08/11/2023      SDS Number: BE4062      Date of last issue: 09/12/2014  
Date of first issue: 09/12/2014

---

**SECTION 1. IDENTIFICATION**

Trade name : Petrothene NA345196  
CAS Number: : 9002-88-4  
Chemical characterization : Polyethylene Homopolymer  
Chemical name : Polyethylene  
Synonyms : Ethene, homopolymer, PE

Identified uses : Manufacture of plastic articles by injection molding, extrusion or other conversion process.

Prohibited uses : FDA Class III medical devices; European class III medical devices; Health Canada class IV Medical Devices; Applications involving permanent implantation into the body; Life-sustaining medical applications

**Company Address**

Equistar Chemicals, LP  
LyondellBasell Tower, Suite 300  
1221 McKinney St.  
P.O. Box 2583  
Houston Texas 77252-2583

**Company Telephone**

Customer Service 888 777-0232  
product.safety@lyb.com

**Emergency telephone number**

EQUISTAR 800-245-4532

E-mail address : product.safety@lyb.com  
Responsible/issuing person

---

**SECTION 2. HAZARDS IDENTIFICATION****GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

Combustible dust

**GHS label elements**

Signal word : Warning

Hazard Statements : If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.

## Petrothene NA345196

Version 1.1      Revision Date: 08/11/2023      SDS Number: BE4062      Date of last issue: 09/12/2014  
 Date of first issue: 09/12/2014

**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

**Components**

| Chemical name | CAS-No.   | Concentration (% w/w) |
|---------------|-----------|-----------------------|
| Polyethylene  | 9002-88-4 | > 99.5                |

**SECTION 4. FIRST AID MEASURES**

General advice : Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid.

If inhaled : Remove person to fresh air. If signs/symptoms continue, get medical attention.  
 In case of excessive inhalation of fumes that may be generated during heating of this material, move the person to fresh air.  
 Obtain medical attention.  
 Keep person warm, if necessary give Cardio-Pulmonary Resuscitation (CPR)

In case of skin contact : 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 as this will remove the skin.  
 Obtain immediate emergency medical attention if burn is deep or extensive.

In case of eye contact : Flush eyes thoroughly with water for several minutes and seek medical attention if discomfort persists.

In case of eye contact with molten polymer:  
 Continuously flush eye(s) with cool running water for at least 15 minutes.

Beyond flushing, DO NOT attempt to remove the material adherent to the eye(s).

Immediately seek medical attention.

If swallowed : Adverse health effects due to ingestion are not anticipated.

Most important symptoms and effects, both acute and delayed : Inhalation of process fumes and vapors may cause soreness in the nose and throat and coughing.

Dust contact with the eyes can lead to mechanical irritation.

Molten polymer may cause thermal burns.

## Petrothene NA345196

|         |                |             |                                 |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 09/12/2014  |
| 1.1     | 08/11/2023     | BE4062      | Date of first issue: 09/12/2014 |

---

Notes to physician : Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

---

### SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : SMALL FIRE:  
Use dry chemical, CO<sub>2</sub>, or water spray.
- LARGE FIRES:  
Use water spray hose nozzles from a safe location.
- Unsuitable extinguishing media : None known.
- Specific hazards during fire fighting : Keep away from heat and sources of ignition.  
In case of fire hazardous decomposition products may be produced such as:  
Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).
- Further information : Combustible particulate solid, will decompose under fire conditions.  
Calorific Value: 8000 - 11000 kcal/kg  
Fight fire from safe distance with hose lines or monitor nozzles.  
Heat from fire may melt, decompose polymer, and generate flammable vapors.  
Move containers from fire area if it can be done without risk.  
Evacuate immediately in the event of opening of storage container pressure relief devices or discoloration of container.  
Always stay away from tanks engulfed in fire.  
Do not attempt to get on top of storage containers involved in fire.  
Cool storage containers with large volumes of water even after fire is out.
- Special protective equipment for fire-fighters : Wear approved positive pressure self-contained breathing apparatus and firefighter protective clothing.

---

### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Equip responders with proper protection.  
Creates dangerous slipping hazard on any hard smooth surface.  
Equip emergency responders with proper personal protective equipment (PPE)  
Avoid generating dust.  
Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).  
Potential combustible dust hazard.  
Polymer particles create slipping hazard on hard smooth sur-

## Petrothene NA345196

|         |                |             |                                 |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 09/12/2014  |
| 1.1     | 08/11/2023     | BE4062      | Date of first issue: 09/12/2014 |

---

faces.

- Environmental precautions : Do not flush into surface water or sanitary sewer system.
- Methods and materials for containment and cleaning up : On land, sweep/shovel into suitable disposal containers or vacuum using equipment which avoids ignition risk. On water, material is insoluble; collect and contain as any solid. 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.

---

**SECTION 7. HANDLING AND STORAGE**

- Advice on safe handling : Material is in a pellet form. If converted to small particles during further processing, handling, or by other means, may form combustible dust concentrations in air. Avoid dust accumulation in enclosed space. Use dust collection systems designed per NFPA 654 to avoid dust accumulation. Avoid generating dust; fine dust suspended in air and in the presence of an ignition source is a potential dust explosion hazard. Static discharge (spark), or other ignition sources, in high dust environments may ignite the dust and result in a dust explosion. Electrostatic charge may build during conveying or handling. Equipment handling polymer should be conductive and grounded (earthed) and bonded. Metal containers involved in the transfer of this material should be grounded and bonded. All electrical equipment should conform to applicable electric codes and regulatory requirements for areas handling combustible dusts. After handling, always wash hands thoroughly with soap and water. When bringing the material to processing temperatures vapors may develop may condense in the exhaust ventilation. See section 10. Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.
- Conditions for safe storage : Store in a dry location. Use good housekeeping practices during storage, transferring and handling. Process enclosures and adequate ventilation should be used to avoid excessive dust accumulation. Store away from excessive heat and away from strong oxidizing agents.

## Petrothene NA345196

Version 1.1      Revision Date: 08/11/2023      SDS Number: BE4062      Date of last issue: 09/12/2014  
 Date of first issue: 09/12/2014

Keep container closed to prevent contamination.  
 Take measures to prevent the build up of electrostatic charge.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Ingredients with workplace control parameters

| Components                             | CAS-No.      | Value type<br>(Form of exposure) | Control parameters / Permissible concentration | Basis      |
|--|--------------|----------------------------------|--|------------|
| Non-specified (inert or nuisance) dust | Not Assigned | TWA                              | 10 mg/m <sup>3</sup><br>(inhalable)            | US (ACGIH) |
|  |              | TWA                              | 3 mg/m <sup>3</sup><br>(respirable)            | US (ACGIH) |
|  |              | TWA                              | 15 mg/m <sup>3</sup><br>(total dust)           | US (OSHA)  |
|  |              | TWA                              | 5 mg/m <sup>3</sup><br>(respirable)            | US (OSHA)  |

**Engineering measures** : Follow the recommendations in NFPA 654 (as amended and adopted) for equipment used to handle this product.

Engineering controls, i.e. enclosed systems, should be used whenever feasible to maintain exposures below acceptable criteria. When such controls are not feasible, or sufficient to achieve full conformance, other engineering controls such as local exhaust ventilation should be used.

Equipment and vessels handling combustible dust from this material should be designed to either prevent dust explosions (inerting) or safely vent dust explosions per NFPA 654

Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

**Personal protective equipment**

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

Hand protection

**Remarks** : Wear gloves that provide thermal protection where there is a

## Petrothene NA345196

|         |                |             |                                 |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 09/12/2014  |
| 1.1     | 08/11/2023     | BE4062      | Date of first issue: 09/12/2014 |

---

potential for contact with heated material.

- Eye protection : 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.
- Skin and body protection : Wear suitable protective clothing.
- Hygiene measures : 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.

---

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance : pellets
- Color : Translucent to white
- Odor : Slight.
- Odor Threshold : No value available.
- pH : Not applicable.
- Melting point/range : 122 - 338 °F / 50 - 170 °C
- Boiling point/boiling range : Not applicable.
- Flash point : No Data Available.
- Evaporation rate : Not applicable.
- Flammability (solid, gas) : May form combustible dust concentrations in air.  
  
Polymer will burn but does not easily ignite.
- Self-ignition : > 572 °F / > 300 °C
- Upper explosion limit / Upper flammability limit : Not applicable.



## Petrothene NA345196

Version 1.1      Revision Date: 08/11/2023      SDS Number: BE4062      Date of last issue: 09/12/2014  
Date of first issue: 09/12/2014

---

---

**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity****Components:****Polyethylene:**

Acute oral toxicity : Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal toxicity

**Skin corrosion/irritation****Components:****Polyethylene:**

Result : No skin irritation

**Serious eye damage/eye irritation****Components:****Polyethylene:**

Remarks : Mechanical irritation is possible.

**Respiratory or skin sensitization****Components:****Polyethylene:**

Result : Does not cause skin sensitization.

Result : Does not cause respiratory sensitization.

**Germ cell mutagenicity****Components:****Polyethylene:**

Germ cell mutagenicity - Assessment : Based on available data, the classification criteria are not met.

## Petrothene NA345196

Version 1.1      Revision Date: 08/11/2023      SDS Number: BE4062      Date of last issue: 09/12/2014  
Date of first issue: 09/12/2014

---

**Carcinogenicity****Product:**

Carcinogenicity - Assessment : Not classified, Not listed by IARC, NTP, OSHA or EPA.

**Components:****Polyethylene:**

Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

**Reproductive toxicity****Components:****Polyethylene:**

Reproductive toxicity - Assessment : Based on available data, the classification criteria are not met.

**STOT - single exposure****Components:****Polyethylene:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

**STOT - repeated exposure****Components:****Polyethylene:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**Aspiration toxicity****Components:****Polyethylene:**

No aspiration toxicity classification



**Petrothene NA345196**

Version 1.1      Revision Date: 08/11/2023      SDS Number: BE4062      Date of last issue: 09/12/2014  
Date of first issue: 09/12/2014

---

Additional ecological information : No data available on this product. However, birds, fish and other wildlife may eat pellets which may obstruct their intestinal tracts.

**Components:**

**Polyethylene:**

Environmental fate and pathways : This material is not volatile and insoluble in water.

Additional ecological information : Ecotoxicity is expected to be minimal based on the low water solubility of polymers.

---

**SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods**

Waste from residues : 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. Recycle if possible.

This material is classified as a Non-hazardous Material by RCRA.

---

**SECTION 14. TRANSPORT INFORMATION**

Not regulated for transport

---

**SECTION 15. REGULATORY INFORMATION**

**TSCA 12b**

No substances are subject to TSCA 12(b) export notification requirements.

**Significant New Use Rules (SNUR)**

No substances are subject to a Significant New Use Rule.

**SARA 302/304**

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

## Petrothene NA345196

|         |                |             |                                 |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 09/12/2014  |
| 1.1     | 08/11/2023     | BE4062      | Date of first issue: 09/12/2014 |

### SARA 311/312

Based upon available information, this material is classified as the following health and/or physical hazards according to Section 311 & 312:

|                  |
|------------------|
| Combustible dust |
|------------------|

### SARA 313

This product contains no known chemicals regulated under SARA 313.

### State Reporting

This material does not contain listed substance(s) known to the State of California to cause cancer, birth defects, or other reproductive harm that would require warning under the California Proposition 65 State Drinking Water and Toxic Enforcement Act.

However, LyondellBasell has not tested for the presence of listed chemical substances.

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.

### Other international regulations

#### Global Inventory Status

The ingredients of this product are compliant with the following chemical inventory requirements or exemptions.

| Country/Region           | Inventory | Status Description        |
|--------------------------|-----------|---------------------------|
| Australia                | AICS      | Listed                    |
| Canada                   | DSL       | Listed                    |
| China                    | IECSC     | Listed                    |
| Europe                   | REACH     | See Compliance Statement* |
| Japan                    | ENCS      | Listed                    |
| Korea                    | K REACH   | Pre-registration period * |
| New Zealand              | NZIoC     | Listed                    |
| Philippines              | PICCS     | Listed                    |
| United Kingdom           | UK REACH  | See Compliance Statement* |
| United States of America | TSCA      | Listed                    |
| Taiwan                   | TCSCA     | Listed                    |
| Turkey                   | KKDIK     | Pre-registration period * |

\* If the product has been purchased domestically from the notifying/registering legal entity of the LyondellBasell group of companies. We confirm that all substances (in this preparation)

## Petrothene NA345196

Version  
1.1Revision Date:  
08/11/2023SDS Number:  
BE4062Date of last issue: 09/12/2014  
Date of first issue: 09/12/2014

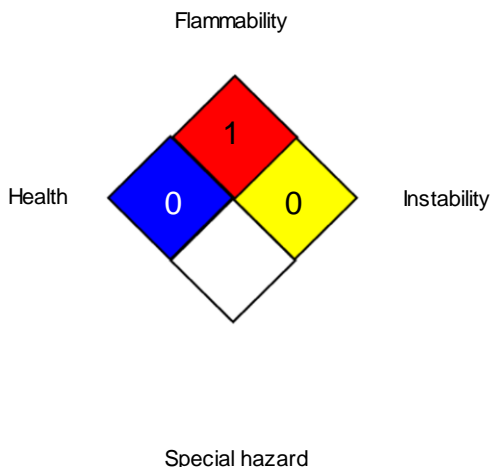
have been registered in accordance with the deadlines set forth in the applicable regulation. During the "Pre-registration period", we confirm that all substances in this preparation have been pre-registered or, where required under the regulation, registered, and that we have the intention to proceed with their registration in accordance with the deadlines set forth in the regulation. For more information, please contact reach@lyondellbasell.com.

† For more information on the status of this material, please contact chemical control at global.chemical.control@lyondellbasell.com.

## SECTION 16. OTHER INFORMATION

## Further information

## NFPA 704:



## HMIS® IV:

|                 |  |   |
|-----------------|--|---|
| HEALTH          |  | 0 |
| FLAMMABILITY    |  | 1 |
| PHYSICAL HAZARD |  | 0 |

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

## Full text of other abbreviations

US (ACGIH) : US (ACGIH)  
 US (OSHA) : US (OSHA)  
 US (ACGIH) / TWA : Time weighted average  
 US (OSHA) / TWA : Time weighted average

AIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification

**Petrothene NA345196**

|         |                |             |                                 |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 09/12/2014  |
| 1.1     | 08/11/2023     | BE4062      | Date of first issue: 09/12/2014 |

---

System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECl - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date : 08/11/2023

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / EN