yondellbasell Gen. Variant: SDS US GHS

Petrothene GA501150X01

Version 1.0 Revision Date 04/21/2015 Print Date 04/12/2017 SDS No.: BE1695

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Petrothene GA501150X01

CAS Number: 25087-34-7

Chemical characterization : Polyethylene copolymer
Chemical Name : 1-Butene, polymer with ethene

Synonyms : Ethylene, polymer with 1-butene, Ethene-Butene copolymer

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 : Equistar Chemicals, LP

LyondellBasell Tower, Suite 300

1221 McKinney St. P.O. Box 2583

Houston Texas 77252-2583

Telephone : Customer Service 888 777-0232

Product Safety 800 700-0946

Emergency telephone : CHEMTREC USA 800-424-9300

EQUISTAR 800-245-4532

E-mail address product.safety@lyb.com

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

OSHA Hazard Category: Combustible Dust

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.

Other hazards

No additional information available.

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3. Composition/information on ingredients

Mixtures

Ingredients

Chemical Name	CAS-No.	Weight %
1-Butene, polymer with ethene	25087-34-7	> 99.5 %

Contains: Additives and stabilizers

SECTION 4. FIRST AID MEASURES

First aid procedures

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.

Notes to physician

Symptoms : Inhalation of process fumes and vapors may cause soreness

in the nose and throat and coughing.

Hazards : Dust contact with the eyes can lead to mechanical irritation.

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Molten polymer may cause thermal burns.

Treatment : Treatment of overexposure should be directed at the control of

symptoms and the clinical condition of the patient.

SECTION 5. FIRE-FIGHTING MEASURES

Flammable properties

Autoignition temperature : > 572 °F (300 °C)

Lower explosion limit : The minimum explosive concentration (MEC) for polymer dust

varies according to particle size distribution.

Upper explosion limit : Not applicable.

Fire fighting

Suitable extinguishing media : SMALL FIRE:

Use dry chemical, CO2, or water spray.

LARGE FIRES:

Use water spray hose nozzles from a safe location.

Unsuitable extinguishing

media

: None known.

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.

Protective equipment and precautions for firefighters

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).

Special protective equipment : Wear approved positive pressure self-contained breathing

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for fire-fighters apparatus and firefighter protective clothing.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions : 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

surfaces.

Environmental precautions : Do not flush into surface water or sanitary sewer system.

Methods for containment / Methods for 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

Handling

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

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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.

Storage

Requirements for storage areas and containers

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.

Keep container closed to prevent contamination.

Take measures to prevent the build up of electrostatic charge.

8. Exposure controls/personal protection

Control parameters

Ingredients with workplace control parameters

Occupational Exposure Limits

Ingredients	CAS-No.	Туре	Limit Value	Basis Revision Date	Additional Information
Materials that can		TWA	10 mg/m3	US (ACGIH)	
be formed when			inhalable	2005	
handling this					
product: Non-					
specified (inert or					
nuisance) dust					
Materials that can		TWA	3 mg/m3	US (ACGIH)	
be formed when			respirable	2005	
handling this					
product: Non-					
specified (inert or					
nuisance) dust					
Materials that can		TWA	15 mg/m3	US (OSHA)	
be formed when			total dust	2005	
handling this					
product: Non-					
specified (inert or					
nuisance) dust					

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Materials that can be formed when handling this product: Non- specified (inert or nuisance) dust		TWA	5 mg/m3 respirable	US (OSHA) 2005	
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Consult local authorities for acceptable exposure limits.

Exposure controls

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 : Wear gloves that provide thermal protection where there is a

potential for contact with heated material.

Eye and face 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.

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Take off contaminated clothing and wash before reuse.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state : Pellets.

Color : Translucent to white

Odor : Slight.

Safety data

Lower explosion limit : The minimum explosive concentration (MEC) for polymer dust

varies according to particle size distribution.

Upper explosion limit : Not applicable.

Flammability (solid, gas) : Polymer will burn but does not easily ignite.

Oxidizing properties : Not considered an oxidizing agent.

Autoignition temperature : $> 572 \, ^{\circ}\text{F} \, (300 \, ^{\circ}\text{C})$

Decomposition temperature : not determined

pH : Not applicable.

Melting point/range : 122 - 338 °F (50 - 170 °C)

Boiling point/boiling range : Not applicable.

Vapor pressure : Not applicable.

Density : < 1 g/cm3

Water solubility : Insoluble.

Partition coefficient: n-

octanol/water

: No Data Available.

Viscosity, dynamic : Not applicable.

Relative vapor density : Not applicable.

Evaporation rate : Not applicable.

Explosive properties : No Data Available.

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Remarks - Other information : No additional information available.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No known reactivity hazards.

: Stable under normal conditions. Chemical stability

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

Thermal decomposition

products

: Not expected to decompose under normal conditions.

: Carbon monoxide, olefinic and paraffinic compounds, trace amounts of organic acids, ketones, aldehydes and alcohols

may be formed.

Hazardous reactions : Will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Acute oral toxicity : Not classified

Acute inhalation toxicity : Not classified

: Not classified Acute dermal toxicity

Skin corrosion/irritation : Not a skin irritant.

Serious eye damage/eye

irritation

: Not an eye irritant.

Mechanical irritation is possible.

Respiratory or skin

sensitization

: Not classified

Chronic toxicity

Carcinogenicity

Not classified

Not listed by IARC, NTP, OSHA or EPA.

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Germ cell mutagenicity : Not classified

Reproductive toxicity

Effects on fertility /

Effects on or via lactation

: Not classified

Effects on Development : Not classified

Target Organ Systemic Toxicant - Single exposure

: The substance or mixture is not classified as specific target

organ toxicant, single exposure.

Target Organ Systemic Toxicant - Repeated

exposure

: The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

Aspiration hazard : Not applicable.

12. ECOLOGICAL INFORMATION

Ecotoxicology Assessment

Acute aquatic toxicity : Not classified

Chronic aquatic toxicity : Not classified

Persistence and degradability

Biodegradability : Not expected to be biodegradable.

Bioaccumulative potential

Bioaccumulation : This material is not expected to bioaccumulate.

Mobility in soil

Additional advice Environmental fate and

pathways

: This material is not volatile and insoluble in water.

Results of PBT and vPvB assessment

Not applicable.

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Other adverse effects

Additional ecological information

: Ecotoxicity is expected to be minimal based on the low water

solubility of polymers.

No data available on this product. However, birds, fish and other wildlife may eat pellets which may obstruct their

intestinal tracts.

SECTION 13. DISPOSAL CONSIDERATIONS

Further information : 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

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 313

This product contains no known chemicals regulated under SARA 313.

State Reporting

This material is not known to contain a chemical substance known to the State of California to cause cancer, reproductive, or developmental toxicity under California Proposition 65. However, LyondellBasell has not tested for the presence of listed chemical substances.

This product contains the following chemicals regulated by New Jersey's Worker and Community Right to Know Act:

557-05-1 Zinc Stearate

This product contains the following chemicals regulated by Massachusetts' Right to Know Law:

557-05-1 Zinc Stearate

This product contains the following chemicals regulated by Pennsylvania's Right to Know Act:

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557-05-1 Zinc Stearate

Other international regulations

Global Inventory Status

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

*Additional Explanatory Status Statements follow the table, as necessary.

Country/Region	Inventory	Status Description
Australia	AICS	Compliant
Canada	DSL	Compliant
China	IECSC	Compliant
Europe	REACH	See REACH Compliance Statement
Japan	ENCS	Compliant
Korea	KECI	Compliant
New Zealand	NZIoC	Compliant
Philippines	PICCS	Compliant
United States of America	TSCA	Compliant
Taiwan	TCSCA	Not Determined

REACh status

If the product has been purchased from any company of the LyondellBasell group of companies registered in the European Union, we confirm that all substances in this preparation have been preregistered or, where required under REACh, registered, and that we have the intention to proceed with their registration in accordance with the deadlines set forth in REACh. (Regulation (EU) No. 1907/2006)

Contact product.safety@lyb.com for additional global inventory information.

SECTION 16. OTHER INFORMATION

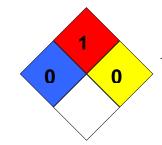
Further information

HMIS Classification : Health Hazard: 0

Flammability: 1 Physical hazards: 0

NFPA Classification : Health Hazard: 0

Fire Hazard: 1 Instability: 0



0

Other Information

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HMIS rating scale (0 = minimal hazard; 4 = severe hazard) NFPA rating scale (0 = minimal hazard; 4 = severe hazard)

Material safety datasheet sections which have been updated:

Updated format; First Edition April 15 2015

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SAFETY DATA SHEET

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