SAFETY DATA SHEET	lyondellbase
Petrothene NA952000	Gen. Variant: SDS_US_GH
	e 04/17/2015 Print Date 08/18/2015 SDS No.: BE15
ECTION 1. PRODUCT AND CO	OMPANY IDENTIFICATION
Product name CAS Number: Chemical characterization Chemical Name Synonyms	<ul> <li>Petrothene NA952000 (LDPE) 9002-88-4</li> <li>Polyethylene Homopolymer</li> <li>Polyethylene</li> <li>Ethene, homopolymer, PE</li> </ul>
Identified uses Prohibited uses	<ul> <li>Manufacture of plastic articles by injection molding, extrusion or other conversion process.</li> <li>FDA Class III medical devices; European class III medical</li> </ul>
	devices; Health Canada class IV Medical Devices; Applications involving permanent implantation into the body; Life-sustaining medical applications
Company	<ul> <li>Equistar Chemicals, LP</li> <li>LyondellBasell Tower, Suite 300</li> <li>1221 McKinney St.</li> <li>P.O. Box 2583</li> <li>Houston Texas 77252-2583</li> </ul>
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
ECTION 2. HAZARDS IDENTIF	ICATION
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	
May decompose releasin	g irritating and toxic gases.
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Composition/information o	n ingredients		
bstances			
Ingredients			
Chemical Name	CAS-No. EC-No.	<u>Weight %</u>	Component Type
Polyethylene	9002-88-4	100.0 %	
CTION 4. FIRST AID MEAS	URES		
First aid procedures			
General advice		cautions to ensure your ov og rescue and providing firs	
If inhaled	medical attention In case of exces generated during fresh air. Obtain medical a	sive inhalation of fumes th g heating of this material, i attention. arm, if necessary give Card	nat may be move the person t
In case of skin contact	large amounts o polymer. Do not attempt to the skin.	al contacts the skin, imme f water to cool the affected to peel polymer from skin a te emergency medical atte	d tissue and as this will remove
In case of eye contact		bughly with water for seven n if discomfort persists.	ral minutes and se
	Continuously flue 15 minutes. Beyond flushing adherent to the e	ontact with molten polyme sh eye(s) with cool running , DO NOT attempt to remo eye(s). ek medical attention.	g water for at leas
If swallowed	: Adverse health e	effects due to ingestion are	e not anticipated.
Notes to physician			
Symptoms		cess fumes and vapors m throat and coughing.	ay cause sorenes

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	Molten polym	er may cause thermal bu	rns.
Treatment		overexposure should be ad the clinical condition of	
CTION 5. FIRE-FIGHTING MEA	SURES		
Flammable properties			
Autoignition temperature	: > 572 °F (300	) °C)	
Lower explosion limit		n explosive concentration ling to particle size distribu	
Upper explosion limit	: Not applicabl	е.	
Fire fighting			
Suitable extinguishing media	: SMALL FIRE Use dry chen	: nical, CO2, or water spray	ι.
	LARGE FIRE Use water sp	ES: ray hose nozzles from a s	safe location.
Unsuitable extinguishing media	: None known.		
Further information	conditions. Calorific Valu Fight fire from nozzles. Heat from fire flammable va Move contair Evacuate imr container pre Always stay a Do not attem fire.	ers from fire area if it can nediately in the event of c ssure relief devices or dis away from tanks engulfed pt to get on top of storage containers with large volu	lines or monitor olymer, and generate be done without risk. opening of storage coloration of container in fire.
Protective equipment and pr	ecautions for fir	efighters	
Specific hazards during fire fighting	In case of fire produced suc	oxide, carbon dioxide and	n products may be
Special protective equipment	: Wear approv	ed positive pressure self-	contained breathing
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for fire-fighters	apparatus and firefighter protective clothing.
SECTION 6. ACCIDENTAL RELE	ASE MEASURES
Personal precautions	<ul> <li>Equip responders with proper protection. Creates dangerous slipping hazard on any hard smooth surface.</li> <li>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.</li> <li>May Contain trace amounts of light hydrocarbons, compounds</li> </ul>
	of oxidation, aldehydes and acids
Environmental precautions	: Do not flush into surface water or sanitary sewer system.
Methods for containment / Methods for cleaning up	<ul> <li>On land, sweep/shovel into suitable disposal containers or vacuum using equipment which avoids ignition risk.</li> <li>On water, material is insoluble; collect and contain as any solid.</li> <li>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.</li> </ul>
SECTION 7. HANDLING AND STO	DRAGE
Handling	
Advice on safe handling	<ul> <li>Material is in a pellet form.</li> <li>If converted to small particles during further processing, handling, or by other means, may form combustible dust concentrations in air.</li> <li>Avoid dust accumulation in enclosed space.</li> <li>Use dust collection systems designed per NFPA 654 to avoid dust accumulation.</li> <li>Avoid generating dust; fine dust suspended in air and in the presence of an ignition source is a potential dust explosion hazard.</li> <li>Static discharge (spark), or other ignition sources, in high dust environments may ignite the dust and result in a dust explosion</li> <li>Electrostatic charge may build during conveying or handling.</li> <li>Equipment handling polymer should be conductive and grounded (earthed) and bonded.</li> <li>Metal containers involved in the transfer of this material should be grounded and bonded.</li> <li>All electrical equipment should conform to applicable electric</li> </ul>
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Storage	combustib After hand water. When brin may deve section 10 Refer to N Dust Explo	lling, always wash han lop may condense in tl ). IFPA 654, Standard fo osions from the Manuf	nts for areas handling nds thoroughly with soap and rocessing temperatures vapors he exhaust ventilation. See or the Prevention of Fire and facturing, Processing, and late Solids, for safe handling.
Requirements for storage areas and containers	and handl should be Store awa oxidizing a Keep cont Take mea Avoid tem with sourc Store eith	housekeeping practice ing. Process enclosure used to avoid excessi y from excessive heat agents. ainer closed to preven sures to prevent the b peratures above 140 ° es of heat.	es during storage, transferring es and adequate ventilation ive dust accumulation. and away from strong at contamination. uild up of electrostatic charge. 2F, direct sunlight and contact al containers in well ventilated

## 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 be formed when handling this product: Non- specified (inert or nuisance) dust		TWA	10 mg/m3 inhalable	US (ACGIH) 2005	
Materials that can be formed when handling this product: Non- specified (inert or nuisance) dust		TWA	3 mg/m3 respirable	US (ACGIH) 2005	

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Materials that can be formed when handling this product: Non- specified (inert or nuisance) dust	TWA	15 mg/m3 total dust	US (OSHA) 2005	
Materials that can be formed when handling this product: Non- specified (inert or nuisance) dust	TWA	5 mg/m3 respirable	US (OSHA) 2005	

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	<ul> <li>Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits.</li> <li>When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.</li> <li>Use appropriate respiratory protection where atmosphere exceeds recommended limits.</li> <li>Where workers could be exposed to dust concentrations above the exposure limit they must use appropriate certified respirators.</li> </ul>
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
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	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.
CTION 9. PHYSICAL AND CH	EMICAL PROPERTIES
Appearance	
Physical state	: Pellets.
Color	: Translucent to white
Odor	: Slight.
Safety data	
Lower explosion limit	: The minimum explosive concentration (MEC) for polymer dua 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 °F (300 °C)
Decomposition temperature	: not determined
рН	: 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-	: No Data Available.
octanol/water Viscosity, dynamic	: Not applicable.
Relative vapor density	: Not applicable.
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Evaporation rate	: Not applicable.
Explosive properties	: No Data Available.
Remarks - Other information	: No additional information available.
CTION 10. STABILITY AND R	
Reactivity	: No known reactivity hazards.
Chemical stability	: Stable under normal conditions.
Conditions to avoid	: Avoid contact with strong oxidizers, excessive heat, sparks
	open flame.
Materials to avoid	: Material may be softened by some hydrocarbons.
Hazardous decomposition products	: Not expected to decompose under normal conditions.
Thermal decomposition	: Carbon monoxide, olefinic and paraffinic compounds, trace amounts of organic acids, ketones, aldehydes and alcohols may be formed.
Hazardous reactions	: Will not occur.
CTION 11. TOXICOLOGICAL	INFORMATION
Acute toxicity	
Acute oral toxicity	: Not classified
Acute inhalation toxicity	: Not classified
Acute dermal toxicity	: Not classified
Skin corrosion/irritation	: Not a skin irritant.
Serious eye damage/eye	: Not an eye irritant.
irritation	Mechanical irritation is possible.
Respiratory or skin sensitization	: Not classified
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Chronic toxicity	
Carcinogenicity	: Not classified Not listed by IARC, NTP, OSHA or EPA.
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	٧
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	: This material is not volatile and insoluble in water.
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Environment pathways	al fate and				
Results of PBT ar		nent			
Not applicable					
Other adverse eff					
Additional ec information	ological	solubility o No data av	y is expected to be n of polymers. vailable on this produ ife may eat pellets w racts.	uct. Howev	ver, birds, fish and
SECTION 13. DISI	POSAL CONSIDE	ERATIONS			
Further inform	ation	transporte applicable	laws and regulation og practices. Reclain	r reclaimed s and in co	in conformance with nformance with good
			possible.		
SECTION 14. TRA	NSPORT INFOR	This mater RCRA.	rial is classified as a	Non-hazar	dous Material by
Not regulated for tr SECTION 15. REG	Cansport	This mater RCRA. MATION	rial is classified as a		
Not regulated for tr	Cansport	This mater RCRA. MATION	rial is classified as a		
Not regulated for tr SECTION 15. REG If identified compo will be listed below SARA 302/304	ansport BULATORY INFO onents of this proc	This mater RCRA. MATION RMATION duct are listed	ial is classified as a	2(b) Export	
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Not regulated for tr SECTION 15. REG If identified compo will be listed below SARA 302/304 This product conta SARA 313	ains no known che	This mater RCRA. MATION RMATION duct are listed	rial is classified as a	2(b) Export 2/304.	
Not regulated for tr SECTION 15. REG If identified compo- will be listed below SARA 302/304 This product conta SARA 313 This product conta State Reporting This material is not cancer, reproductiv	ains no known che ains no known che ains no known che	This mater RCRA. MATION RMATION duct are listed emicals regula emicals regula	rial is classified as a	2(b) Export 2/304. 3. the State of psition 65. H	Notification rule, they
Not regulated for tr SECTION 15. REG If identified compo- will be listed below SARA 302/304 This product conta SARA 313 This product conta State Reporting This material is not cancer, reproductiv LyondellBasell has	ains no known che ains no known che ains no known che ains no known che ains no known che	This mater RCRA. MATION RMATION duct are listed emicals regula emicals regula emicals regula	ated under SARA 30 ated under SARA 30 ated under SARA 31 substance known to t oder California Propo listed chemical subs	2(b) Export 2/304. 3. the State of psition 65. H stances.	Notification rule, they
Not regulated for tr SECTION 15. REG If identified compo- will be listed below SARA 302/304 This product conta SARA 313 This product conta State Reporting This material is not cancer, reproductive LyondellBasell has This product conta	ains no known che ains no known che ains no known che ains no known che ains no known che	This mater RCRA. MATION RMATION duct are listed emicals regula emicals regula a chemical s natal toxicity un e presence of emicals regula	ated under SARA 30 ated under SARA 30 ated under SARA 31 substance known to t oder California Propo listed chemical subs	2(b) Export 2/304. 3. the State of psition 65. H stances.	Notification rule, they f California to cause łowever,

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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.

\*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 the chemical substance in this product has been pre-registered or, where required under REACh, registered, and that we have the intention to proceed with any required 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 11/13

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Other Information

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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