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SAFETY DATA SHEET

Microthene MP672962

Version 1.0

Revision Date 04/21/2015 Prin

Print Date 04/12/2017

Gen. Variant: SDS_US_GHS SDS No.: BE1756

xtures	ngrouenta
No additional information	
Other hazards	
Hazard Statements	: May form combustible dust concentrations in air.
Signal Word	: Warning
Label elements	
OSHA Hazard Category:	Combustible Dust
GHS Classification	
E-mail address	product.safety@lyb.com
	EQUISTAR 800-245-4532
Emergency telephone	: CHEMTREC USA 800-424-9300
Telephone	: Customer Service 888 777-0232 Product Safety 800 700-0946
	1221 McKinney St. P.O. Box 2583 Houston Texas 77252-2583
Company	: Equistar Chemicals, LP LyondellBasell Tower, Suite 300
	devices; Health Canada class IV Medical Devices; Applications involving permanent implantation into the body Life-sustaining medical applications
Prohibited uses	or other conversion process. : FDA Class III medical devices; European class III medical
Identified uses	: Manufacture of plastic articles by injection molding, extrusion
Chemical Name Synonyms	: 1-Hexene,polymer with ethene: Ethylene-1-hexene copolymer, Ethylene-Hexene Copolyme
CAS Number: Chemical characterization	25213-02-9 : Polyethylene copolymer

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SAFETY DATA SHEET	Ponciplastics.com	lyondellbasel		
Microthene MP672962 Version 1.0 Revision Date	e 04/21/2015 Print Date 04/	Gen. Variant: SDS_US_GHS 12/2017 SDS No.: BE1756		
Ingredients				
Chemical Name	CAS-No.	Weight %		
1-Hexene,polymer with ethene	25213-02-9	> 99.5 %		
Contains: Stabilizers				
SECTION 4. FIRST AID MEASUR	ES			
First aid procedures General advice	· Taka proper proputions to	angura your own boolth and cafety		
General advice	before attempting rescue a	ensure your own health and safety nd providing first aid.		
If inhaled	medical attention. In case of excessive inhala generated during heating o fresh air. Obtain 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		
In case of skin contact	large amounts of water to o polymer. Do not attempt to peel poly the skin.	Do not attempt to peel polymer from skin as this will remove the skin. Obtain immediate emergency medical attention if burn is deep		
In case of eye contact	: Flush eyes thoroughly with medical attention if discom	water for several minutes and seek fort persists.		
	15 minutes.	vith cool running water for at least attempt to remove the material		
If swallowed	: Adverse health effects due	to ingestion are not anticipated.		
Notes to physician				
Symptoms	: Inhalation of process fume in the nose and throat and	s and vapors may cause soreness coughing.		
Hazards	: Dust contact with the eyes Molten polymer may cause	can lead to mechanical irritation. thermal burns.		

	(+) 18816996168
SAFETY DATA SHEET	Ponciplastics.com
Microthene MP672962	Gen. Variant: SDS_US_GHS
Version 1.0 Revision Date	04/21/2015 Print Date 04/12/2017 SDS No.: BE175
	symptoms and the clinical condition of the patient.
SECTION 5. FIRE-FIGHTING MEA	ASURES
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 pr	recautions for firefighters
Specific hazards during fire fighting	 Keep away from heat and sources of ignition. Dust particles from this product are combustible particulate solids that present a flash fire or explosion hazard when suspended in air. Polymer dust layer melts on the hot surface before ignition can occur In case of fire hazardous decomposition products may be produced such as: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).
	3/13

Ponciplastics.com A/21/2015 Print Date 04/ Wear approved positive pr apparatus and firefighter p BE MEASURES	essure self-contained breathing
: Wear approved positive pr apparatus and firefighter p	212/2017 SDS No.: BE175 essure self-contained breathing
: Wear approved positive pr apparatus and firefighter p	essure self-contained breathing
apparatus and firefighter p	
apparatus and firefighter p	
SE MEASURES	
surface. Equip emergency respond equipment (PPE) Avoid dispersal of dust in t with compressed air). Potential combustible dust	g hazard on any hard smooth ers with proper personal protective he air (i.e., clearing dust surfaces
: Do not flush into surface w	rater or sanitary sewer system.
vacuum using equipment v On water, material is insolu solid. All recovered material sho transported and disposed	uble; collect and contain as any uld be packaged, labeled, of or reclaimed in conformance with tions and in conformance with good
AGE	
dust accumulation. Avoid generating dust; fine presence of an ignition sou hazard. Polymer dust layer melts of can occur Hot surface temperature si avoid direct ignition of a du Static discharge (spark), o environments may ignite th explosion Electrostatic charge may b Equipment handling polym grounded (earthed) and bo Metal containers involved i should be grounded and b All electrical equipment sh	as designed per NFPA 654 to avoid a dust suspended in air and in the urce is a potential dust explosion on the hot surface before ignition hall be limited to less than 270°C to ust cloud. In other ignition sources, in high dust he dust and result in a dust build during conveying or handling. Her should be conductive and onded. In the transfer of this material
4 / 13	
	 surface. Equip emergency responded equipment (PPE) Avoid dispersal of dust in the with compressed air). Potential combustible dust Polymer particles create sets surfaces. Do not flush into surface were an equipment of the construction on water, material is insoluted and disposed of applicable laws and regulated engineering practices. Received and disposed of applicable laws and regulated engineering practices. Received and disposed of applicable laws and regulated engineering practices. Received and disposed of applicable laws and regulated engineering practices. Received and disposed of applicable laws and regulated engineering practices. Received accumulation. Avoid generating dust; fine presence of an ignition southazard. Polymer dust layer melts of can occur Hot surface temperature set avoid direct ignition of a dustatic discharge (spark), or environments may ignite the explosion environments may ignite the explosion environments may ignite the explosion environments involved a should be grounded and be and the dusts.

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SAFETY DATA SHEET	1 one ipi	astics.com	lyo	ndellbasel
Microthene MP672962			Gen. V	ariant: SDS_US_GHS
Version 1.0 Revision Date 04	4/21/2015	Print Date 04	4/12/2017	SDS No.: BE1756
	water. When brir may deve section 10 Refer to N Dust Expl	nging the materi lop may conder). IFPA 654, Stan osions from the	al to processin use in the exha dard for the Pro Manufacturing	bughly with soap and g temperatures vapors ust ventilation. See evention of Fire and g, Processing, and ids, for safe handling.
Storage				
Requirements for storage areas and containers	Use good and hand should be Degradati light and o compound generated Store awa oxidizing Keep con	ling. Process en used to avoid e on can occur be oxidizing agent: ds of oxidation, d. ay from excessiv agents. tainer closed to	closures and a excessive dust ecause of expo trace amounts aldehydes and ve heat and aw prevent contar	sure to temperature, of light hydrocarbons, acids can be ray from strong

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	

5/13

$(+)\,18816996168$

Ponciplastics.com

lyondellbase

Gen. Variant: SDS US GHS

SAFETY DATA SHEET

Microthene MP672962

 Version 1.0
 Revision Date 04/21/2015
 Print Date 04/12/2017
 SDS No.: BE1756

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

nuisance) dust				
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	 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
	6 / 13

	(+) 18816996168
SAFETY DATA SHEET	Ponciplastics.com
Version 1.0 Revision Date	Gen. Variant: SDS_US_GHS 04/21/2015 Print Date 04/12/2017 SDS No.: BE175
	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.
ECTION 9. PHYSICAL AND CH	MICAL PROPERTIES
Appearance	
Physical state	: Powders or flakes.
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 °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.

	(+) 18816996168
SAFETY DATA SHEET	Ponciplastics.com
Microthene MP672962	Gen. Variant: SDS_US_GHS
Version 1.0 Revision Date	04/21/2015 Print Date 04/12/2017 SDS No.: BE1756
Evaporation rate	: Not applicable.
Explosive properties	: No Data Available.
Remarks - Other information	: No additional information available.
SECTION 10. STABILITY AND RE	
Reactivity	: No known reactivity hazards.
Chemical stability	: Stable under normal conditions.
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.
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.
SECTION 11. TOXICOLOGICAL I	NFORMATION

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 irritation	: Not an eye irritant. Mechanical irritation is possible.
Respiratory or skin sensitization	: Not classified
	8 / 13

	(+) 18816996168
SAFETY DATA SHEET	Ponciplastics.com
Microthene MP672962	Gen. Variant: SDS_US_GHS
Version 1.0 Revision Date	
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	I
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.
	9/13

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SAFETY DATA SHEET	Ponciplastics.com	lyondellbasel
Microthene MP672962 Version 1.0 Revision Date		Gen. Variant: SDS_US_GHS 4/12/2017 SDS No.: BE1750
Environmental fate and pathways		
Results of PBT and vPvB asses	sment	
Not applicable.		
Other adverse effects		
Additional ecological information	: Ecotoxicity is expected to solubility of polymers.	be minimal based on the low water
SECTION 13. DISPOSAL CONSI	DERATIONS	
Further information		l of or reclaimed in conformance with ations and in conformance with good
SECTION 14. TRANSPORT INFO		
Not regulated for transport SECTION 15. REGULATORY INF	FORMATION	CA 12(b) Export Notification rule, they
Not regulated for transport SECTION 15. REGULATORY INF If identified components of this pr	FORMATION	CA 12(b) Export Notification rule, they
Not regulated for transport SECTION 15. REGULATORY INF If identified components of this pr will be listed below.	FORMATION	
Not regulated for transport SECTION 15. REGULATORY INF If identified components of this pr will be listed below. SARA 302/304	FORMATION roduct are listed under the TSC	A 302/304.
Not regulated for transport SECTION 15. REGULATORY INF If identified components of this pr will be listed below. SARA 302/304 This product contains no known c SARA 313	FORMATION roduct are listed under the TSC	A 302/304.
Not regulated for transport SECTION 15. REGULATORY INF If identified components of this pr will be listed below. SARA 302/304 This product contains no known c SARA 313 This product contains no known c State Reporting	FORMATION roduct are listed under the TSC chemicals regulated under SAR chemicals regulated under SAR	A 302/304. A 313. In to the State of California to cause Proposition 65. However,
Not regulated for transport SECTION 15. REGULATORY INF If identified components of this pr will be listed below. SARA 302/304 This product contains no known c SARA 313 This product contains no known c State Reporting This material is not known to conta cancer, reproductive, or developm LyondellBasell has not tested for t	FORMATION roduct are listed under the TSC chemicals regulated under SAR chemicals regulated under SAR chemicals regulated under SAR	A 302/304. A 313. In to the State of California to cause Proposition 65. However,
Not regulated for transport SECTION 15. REGULATORY INF If identified components of this pr will be listed below. SARA 302/304 This product contains no known c SARA 313 This product contains no known c State Reporting This material is not known to conta cancer, reproductive, or developm LyondellBasell has not tested for t This product contains the followin Right to Know Act:	FORMATION roduct are listed under the TSC chemicals regulated under SAR chemicals regulated under SAR chemicals regulated under SAR ain a chemical substance know tental toxicity under California F he presence of listed chemical g chemicals regulated by New	A 302/304. A 313. In to the State of California to cause Proposition 65. However, substances. Jersey's Worker and Community
Not regulated for transport SECTION 15. REGULATORY INF If identified components of this pr will be listed below. SARA 302/304 This product contains no known of SARA 313 This product contains no known of State Reporting This material is not known to conta cancer, reproductive, or developm LyondellBasell has not tested for t This product contains the followin Right to Know Act: 557-05-1 Zinc Stearate This product contains the followin	FORMATION roduct are listed under the TSC chemicals regulated under SAR chemicals regulated under SAR chemicals regulated under SAR ain a chemical substance know iental toxicity under California F he presence of listed chemical g chemicals regulated by New g chemicals regulated by Mass	A 302/304. A 313. In to the State of California to cause Proposition 65. However, substances. Jersey's Worker and Community sachusetts' Right to Know Law:

SAFETY DATA SHEET

Revision Date 04/21/2015

(+) **18816996168** Ponciplastics.com

Microthene MP672962

Version 1.0

Print Date 04/12/2017

SDS No.: BE1756

Gen. Variant: SDS_US_GHS

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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: 1 Flammability: 1 Physical hazards: 0	1 1 0
NFPA Classification	: Health Hazard: 1 Fire Hazard: 1 Instability: 0	
Other Information		
	11 / 13	

(+) 18816996168

Ponciplastics.com

SAFETY DATA SHEET

Microthene MP672962

Version 1.0

Revision Date 04/21/2015

Print Date 04/12/2017

Gen. Variant: SDS_US_GHS 17 SDS No.: BE1756

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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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Microthene MP672962

Version 1.0

Revision Date 04/21/2015

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