SAFETY DATA SHEET	lyondellbasel
Microthene ENEO100	Gen. Variant: SDS_CA_GHS
Microthene FN50100 Version 1.2 Revision Date	
1. IDENTIFICATION OF THE SUE	STANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
Trade name	: Microthene FN50100
CAS Number: Chemical characterization	: 9002-88-4 : 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
<u>Company Address</u> Equistar Chemicals, LP LyondellBasell Tower, Suite 3 1221 McKinney St. P.O. Box 2583 Houston Texas 77252-2583	Company Telephone Customer Service 888 777-0232 product.safety@lyb.com
Emergency telephone numl LYONDELL 800-245-4532 E-mail address Responsible/issuing person	ber : product.safety@lyb.com
2. HAZARDS IDENTIFICATION	
GHS Classification	
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	
	1 / 13

SAFETY DATA SHEET			lyond	ellbasel		
Microthene FN50100			Gen. Varian	it: SDS_CA_GHS		
Version 1.2 Revision Da	te 09/3	30/2019 Print Date	9 08/16/2022	SDS No.: BE157		
May decompose releasin 3. COMPOSITION/INFORMATIO Substances						
Components Chemical name		CAS-No.	Weight %	Component		
		EC-No.		Туре		
Polyethylene		9002-88-4	100.0 %			
4. FIRST AID MEASURES General advice	:	Take proper precautio before attempting reso	-	-		
If inhaled	:	Remove person to free medical attention. In case of excessive in during heating of this Obtain medical attenti Keep person warm, if Resuscitation (CPR)	nhalation of fumes that material, move the per on.	t may be generated rson to fresh air.		
In case of skin contact	:	<ul> <li>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 th skin.</li> <li>Obtain immediate emergency medical attention if burn is deep or extensive.</li> </ul>				
In case of eye contact		Flush eyes thoroughly medical attention if dis In case of eye contact Continuously flush eye minutes. Beyond flushing, DO I adherent to the eye(s) Immediately seek med	scomfort persists. with molten polymer: e(s) with cool running NOT attempt to remove	water for at least 1		
If swallowed	:	Adverse health effects	due to ingestion are	not anticipated.		
		2 / 13				
		2, 13				

SAFETY DATA SHEET	lyondellbase
Aicrothene FN50100	Gen. Variant: SDS_CA_GHS
/ersion 1.2 Revision Date	09/30/2019 Print Date 08/16/2022 SDS No.: BE15
Notes to physician	
Symptoms	: Inhalation of process fumes and vapors may cause soreness the nose and throat and coughing.
Hazards	: Dust contact with the eyes can lead to mechanical irritation. 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.
FIRE-FIGHTING MEASURES	
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.
Specific hazards during fire fighting	<ul> <li>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.</li> </ul>
	Polymer dust layer melts on the hot surface before ignition ca occur In case of fire hazardous decomposition products may be
	produced such as: Carbon monoxide, carbon dioxide and unburned hydrocarbon (smoke).
Special protective equipment for fire-fighters	: Wear approved positive pressure self-contained breathing apparatus and firefighter protective clothing.
Further information	<ul> <li>Combustible particulate solid, will decompose under fire conditions.</li> <li>Calorific Value: 8000 - 11000 kcal/kg</li> <li>Fight fire from safe distance with hose lines or monitor nozzle Heat from fire may melt, decompose polymer, and generate flammable vapors.</li> <li>Move containers from fire area if it can be done without risk.</li> <li>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.</li> <li>Do not attempt to get on top of storage containers involved in</li> </ul>
	3 / 13

SAFETY DATA SHEET	lyondellbasel
Microthene FN50100	Gen. Variant: SDS_CA_GHS
Version 1.2 Revision Date 09	0/30/2019 Print Date 08/16/2022 SDS No.: BE157
	fire. Cool storage containers with large volumes of water even afte fire is out.
ACCIDENTAL RELEASE MEASUR	RES
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)</li> <li>Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).</li> <li>Potential combustible dust hazard.</li> <li>Polymer particles create slipping hazard on hard smooth surfaces.</li> </ul>
	<ul> <li>May Contain trace amounts of light hydrocarbons, compounds of oxidation, aldehydes and acids In case of material degradation use appropriate respiratory equipment.</li> <li>For personal protection see section 8.</li> </ul>
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.
. Handling and storage	
Precautions for safe handling	
Advice on safe handling :	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.
	4 / 13

SAFETY DATA SHEET			lyond	ellbasell
Microthene FN50100			Gen. Variar	nt: SDS_CA_GHS
Version 1.2 Revision Date	09/30/2019	Print Date 08/16/2		SDS No.: BE1572
	Polymer du can occur Hot surface avoid direc Static disch environmen explosion Electrostati Equipment grounded ( Metal conta should be g All electrica codes and combustible After handli water. When bring may develo section 10.	ist layer melts on the e temperature shall b t ignition of a dust clo harge (spark), or othe ts may ignite the du ic charge may build of handling polymer sh earthed) and bonded ainers involved in the grounded and bonded al equipment should regulatory requireme e dusts. ing, always wash han ging the material to p p may condense in the	e hot surface le oud. er ignition sou ist and result during convey hould be cond t. e transfer of th d. conform to ap ints for areas inds thoroughle processing ter the exhaust v facturing, Pro-	before ignition ess than 270°C to urces, in high dust in a dust ing or handling. luctive and his material oplicable electric handling ly with soap and mperatures vapors ventilation. See
Conditions for safe storage, i Requirements for storage areas and containers	<ul> <li>Store in a or Use good h and handlir should be to Degradation light and ox compounds generated. Store away oxidizing at Keep conta Take meas</li> <li>Maximum a 60 days. Avoid direct Avoid direct Store eithe area or in state area or in state store eithe store</li></ul>	dry location. nousekeeping practic ng. Process enclosur used to avoid excess in can occur because kidizing agent: trace of oxidation, aldehy from excessive heat gents. ainer closed to prever ures to prevent the b allowed storage temp t insufflation of air. t sunlight and contact r in the closed origina silos with vents.	res and adequisive dust accursive dust accurs of exposure amounts of linders and acid rides and acid t and away front contaminate build up of electors beratures of 5 ct with source al containers °F, direct sur	uate ventilation in umulation. to temperature, ght hydrocarbons, is can be om strong tion. ectrostatic charge. 50°C for maximum es of heat. in well ventilated hlight and contact
	5	/ 13		

SAFETY	DATA	SHEET	

# **Microthene FN50100**

Version 1.2

Revision Date 09/30/2019

Print Date 08/16/2022

Gen. Variant: SDS\_CA\_GHS

lyondellbasel 

SDS No.: BE1572

Specific end use(s)

: See Section 1.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control parameters**

## Ingredients with workplace control parameters

#### **Occupational Exposure Limits**

Components	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	
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.

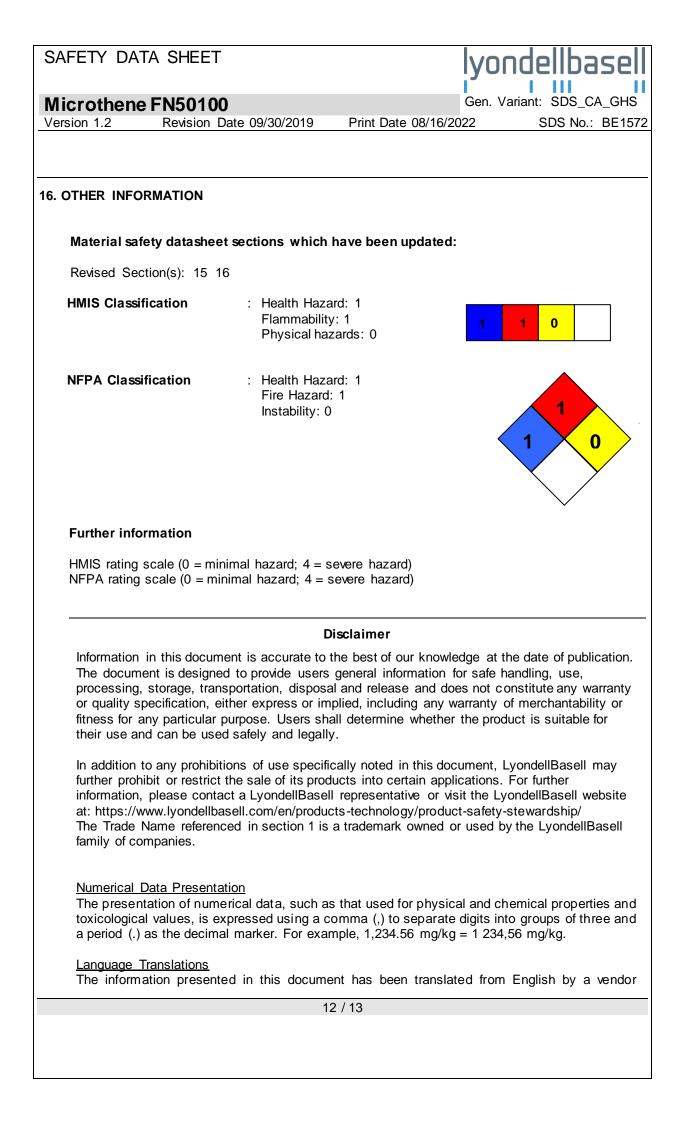
SAFETY DATA SHEET			lyondellbasel
Microthene FN50100			Gen. Variant: SDS_CA_GHS
Version 1.2 Revision Date	e 09/30/2019	Print Date 08/16/20	022 SDS No.: BE1572
Engineering controls, i.e. enc			
full conformance, other engine Equipment and vessels handl prevent dust explosions (inert Ensure that dust-handling sys	eering controls sur ing combustible d ing) or safely vent stems (such as ext esigned in a manne	ch as local exhaust ust from this materia dust explosions pe naust ducts, dust co	al should be designed to either r NFPA 654
Personal protective equipm	nent		
Respiratory protection	engineering recommende When worker limit they mu Use appropria exceeds reco Where worke	controls to keep airl d exposure limits. 's are facing concers is use appropriate of ate respiratory proto mmended limits. ers could be expose	exhaust ventilation, or other borne levels below intrations above the exposure certified respirators. ection where atmosphere ed to dust concentrations ust use appropriate certified
Hand protection		that provide therma contact with heated	al protection where there is a material.
Eye and face protection	injury or othe		worn to prevent mechanical due to airborne particles which oduct.
Skin and body protection	: Wear suitabl	e protective clothino	g.
Hygiene measures	be based on of the protect performed, c hazards and/ during use. Use good pe Wash hands facilities.	an evaluation of the ive equipment relation onditions present, of or potential hazards rsonal hygiene prace before eating, drink	al protective equipment should e performance characteristics tive to the task(s) to be duration of use, and the s that may be encountered ctices. king, smoking, or using toilet and wash before reuse.
9. PHYSICAL AND CHEMICAL P	ROPERTIES		
Appearance Color	: Powders or : Translucent		
Odor	: Slight.		
Odor Threshold	: No value ava		
	7 /	13	

SAFETY DATA SHEET	lyondellbasel						
Microthene FN50100	Gen. Variant: SDS_CA_GHS						
Version 1.2 Revision Date	09/30/2019 Print Date 08/16/2022 SDS No.: BE157						
Flash point	: No Data Available.						
Lower explosion limit	Lower explosion limit : The minimum explosive concentration (MEC) for polymer due 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	: > 300 °C						
Decomposition temperature	: not determined						
Melting point/range	: 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.						
Other Information	: No additional information available.						
IO. STABILITY AND REACTIVITY							
Reactivity	: No known reactivity hazards.						
Chemical stability	: Stable under normal conditions.						
Hazardous reactions	: Will not occur.						
Conditions to avoid	itions to avoid : Avoid contact with strong oxidizers, excessive heat, sparks or open flame.						
Materials to avoid	: Material may be softened by some hydrocarbons.						
	8 / 13						

SAFETY DATA SHEET	lyondellbasel					
Microthene FN50100	Gen. Variant: SDS_CA_GHS					
	e 09/30/2019 Print Date 08/16/2022 SDS No.: BE157					
Hazardous decomposition products	: Not expected to decompose under normal conditions.					
Thermal decomposition	sition : Carbon monoxide, olefinic and paraffinic compounds, trace amounts of organic acids, ketones, aldehydes and alcohols may be formed.					
11. TOXICOLOGICAL INFORMA	ΤΙΟΝ					
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					
Chronic toxicity						
Carcinogenicity	: Not classified					
	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	: The substance or mixture is not classified as specific target organ toxicant, single exposure.					
	9 / 13					

SAFETY DATA SHEET			lyor	Idellbasell	
Microthene FN50100			Gen. Va	riant: SDS_CA_GHS	
Version 1.2 Revision Date	09/30/2019	Print Date 08/16/	2022	SDS No.: BE1572	
Toxicant - Single exposure					
Target Organ Systemic Toxicant - Repeated exposure		ance or mixture is no cant, repeated expo		l as specific target	
Aspiration hazard	: Not applica	able.			
12. Ecological information					
Ecotoxicology Assessment					
Short-term (acute) aquatic	: Not classif	ied			
hazard Long-term (chronic)					
aquatic hazard	. NOT Classif	lea			
Persistence and degradability					
Biodegradability	: Not expected to be biodegradable.				
Bioaccumulative potential					
Bioaccumulation	: This mate	ial is not expected t	o bioaccum	ulate.	
Mobility in soil					
Mobility	: no data av	ailable			
Other adverse effects					
Environmental fate and pathways	: This mater	ial is not volatile and	d insoluble	in water.	
Other information					
Additional ecological information		/ is expected to be n f polymers.	ninimal bas	ed on the low water	
13. Disposal considerations					
Waste treatment methods					
	1	) / 13			

SAFE	TY DATA	SHEET			lyondel	lbasell
Mien	- (  <b>-</b>				Gen. Variant: S	
		FN50100				
Versior	n 1.2	Revision Date 09	9/30/2019	Print Date 08/16/20	)22 SD	S No.: BE1572
Pro	oduct	:		d material should be and disposed of or		
				aws and regulations practices. Reclaim ossible.		nce with good
14. TRA	NSPORT IN	NFORMATION				
Not regu	lated for tra	Insport				
15. REG	ULATORY	INFORMATION				
Other in	nternational	l regulations				
	ons.	nis product are co		ne following chemica follow the table, as		ements or
		,,		, ,	, <b>,</b>	
	Country/R	egion	Inventory	Status Descr	ption	
	Australia		AICS	Compliant		
	Canada		DSL	Compliant		
	China		IECSC	Compliant		
	Europe		REACH		Compliance State	ement
	Japan		ENCS	Compliant		
	Korea		KECI	Compliant		
	New Zeala		NZIoC	Compliant		
	Philippines		PICCS	Compliant		
		tes of America	TSCA	Compliant		
	Taiwan		TCSCA	Compliant		
registere registere 1907/20	oduct has bo od in the Eu od under RE 06)	ropean Union, we EACh, in accordan	confirm that t ce with the de	ny of the LyondellBa he chemical substan adlines set forth in al inventory informat	nce in this produc REACh. (Regulat	t has been



SAFETY DATA SHEET			ndellbasell
		i y O	
Microthene	e FN50100	Gen. V	/ariant: SDS_CA_GHS
Version 1.2	Revision Date 09/30/2019	Print Date 08/16/2022	SDS No.: BE1572
LyondellBasell believes to be reliable. LyondellBasell and its vendor have made a good-faith			
effort to verify the accuracy of the translation, but assume no liability or other responsibility for any errors that may have occurred. Please refer to our web site (www.lyondellbasell.com) for the original document written in English.			
End of Material Safety Data Sheet			
13 / 13			