SAFETY DATA SHEET	lyondellbasel
Microthene MN70100	Gen. Variant: SDS_CA_GHS
Version 1.2 Revision Date	
1. IDENTIFICATION OF THE SU	SSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
Trade name CAS Number: Chemical characterization	 Microthene MN70100 9002-88-4 Polyethylene Homopolymer
Chemical name Synonyms	: Polyethylene : 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 1221 McKinney St. P.O. Box 2583 Houston Texas 77252-2583	
Emergency telephone num LYONDELL 800-245-4532	<u>ber</u>
E-mail address Responsible/issuing person	: 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	
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No additional information ava					
3. COMPOSITION/INFORMATION	ON INGREDIENTS				
Components					
Chemical name	CAS-No.	<u>Weight %</u>			
Polyethylene	9002-88-4	> 99.5 %			
Contains: Stabilizers 4. FIRST AID MEASURES					
General advice	: Take proper precautions to e before attempting rescue and	ensure your own health and safety d 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 th skin. Obtain immediate emergency medical attention if burn is deep or extensive. 				
In case of eye contact	: Flush eyes thoroughly with v medical attention if discomfo	vater for several minutes and seek rt persists.			
	 In case of eye contact with molten polymer: Continuously flush eye(s) with cool running water for at least 1 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	o ingestion are not anticipated.			
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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 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	: 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 ca occur In case of fire hazardous decomposition products may be
	produced such as: Carbon monoxide, carbon dioxide and unburned hydrocarbor (smoke).
Special protective equipment for fire-fighters	: Wear approved positive pressure self-contained breathing apparatus and firefighter protective clothing.
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 nozzle 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
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	fire. Cool storage containers with large volumes of water even afte fire is out.
ACCIDENTAL RELEASE MEAS	SURES
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 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.
Handling and storage	
Precautions for safe handlin	g
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. Polymer dust layer melts on the hot surface before ignition can occur Hot surface temperature shall be limited to less than 270°C to avoid direct ignition of a dust cloud. Static discharge (spark), or other ignition sources, in high dust environments may ignite the dust and result in a dust
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	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,	including any incompatibilities	
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. Degradation can occur because of exposure to temperature, light and oxidizing agent: trace amounts of light hydrocarbons, compounds of oxidation, aldehydes and acids can be generated. 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. 	
Specific end use(s)		
	: See Section 1.	
8. EXPOSURE CONTROLS/PERSONAL PROTECTION Control parameters		
Ingredients with workplace o	control parameters	
Occupational Exposure Limi	its	
Components CAS-No.	51	
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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					
Materials that can		TWA	5 mg/m3	US (OSHA)	
be formed when		1 * * / `	respirable	2005	
handling this					
product: Non-					

Consult local authorities for acceptable exposure limits.

Exposure controls

specified (inert or nuisance) dust

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

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
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	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. Take off contaminated clothing and wash before reuse. 		
PHYSICAL AND CHEMICAL P	ROPERTIES		
PHYSICAL AND CHEMICAL P Appearance Color	ROPERTIES : Powders or flakes. : Translucent to white		
Appearance	: Powders or flakes.		
Appearance Color	: Powders or flakes. : Translucent to white		
Appearance Color Odor	Powders or flakes.Translucent to whiteSlight.		
Appearance Color Odor Odor Threshold	 Powders or flakes. Translucent to white Slight. No value available. No Data Available. 		
Appearance Color Odor Odor Threshold Flash point	 Powders or flakes. Translucent to white Slight. No value available. No Data Available. The minimum explosive concentration (MEC) for polymer dus 		
Appearance Color Odor Odor Threshold Flash point Lower explosion limit	 Powders or flakes. Translucent to white Slight. No value available. No Data Available. The minimum explosive concentration (MEC) for polymer dus varies according to particle size distribution. 		
Appearance Color Odor Odor Threshold Flash point Lower explosion limit Upper explosion limit	 Powders or flakes. Translucent to white Slight. No value available. No Data Available. The minimum explosive concentration (MEC) for polymer dus varies according to particle size distribution. Not applicable. 		
Appearance Color Odor Odor Threshold Flash point Lower explosion limit Upper explosion limit Flammability (solid, gas)	 Powders or flakes. Translucent to white Slight. No value available. No Data Available. The minimum explosive concentration (MEC) for polymer dus varies according to particle size distribution. Not applicable. Polymer will burn but does not easily ignite. 		
Appearance Color Odor Odor Threshold Flash point Lower explosion limit Upper explosion limit Flammability (solid, gas) Oxidizing properties	 Powders or flakes. Translucent to white Slight. No value available. No Data Available. The minimum explosive concentration (MEC) for polymer dus varies according to particle size distribution. Not applicable. Polymer will burn but does not easily ignite. Not considered an oxidizing agent. > 300 °C 		
Appearance Color Odor Odor Threshold Flash point Lower explosion limit Upper explosion limit Flammability (solid, gas) Oxidizing properties Autoignition temperature	 Powders or flakes. Translucent to white Slight. No value available. No Data Available. The minimum explosive concentration (MEC) for polymer dus varies according to particle size distribution. Not applicable. Polymer will burn but does not easily ignite. Not considered an oxidizing agent. > 300 °C 		
Appearance Color Odor Odor Threshold Flash point Lower explosion limit Upper explosion limit Flammability (solid, gas) Oxidizing properties Autoignition temperature Decomposition temperature	 Powders or flakes. Translucent to white Slight. No value available. No Data Available. The minimum explosive concentration (MEC) for polymer dust varies according to particle size distribution. Not applicable. Polymer will burn but does not easily ignite. Not considered an oxidizing agent. > 300 °C not determined 		

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Vapor pressure	: Not applic	able.	
Density	: < 1 g/cm3		
Water solubility	: Insoluble.		
Partition coefficient: n-	: No Data A	Available.	
octanol/water Viscosity, dynamic	: Not applic	able.	
Relative vapor density	: Not applic	able.	
Evaporation rate	: Not applic	able.	
Explosive properties	: No Data /	Available.	
Other Information	: No additio	nal information available.	
STABILITY AND REACTIVIT	Y		
Reactivity	: No known	reactivity hazards.	
Chemical stability	: Stable under normal conditions.		
Hazardous reactions	: Will not occur.		
Conditions to avoid	: Avoid contact with strong oxidizers, excessive heat, sparks or open flame.		
	open name).	
Materials to avoid	·	ay be softened by some hydrocarbons.	
Hazardous decomposition	: Material m		
	: Material m : Not expect : Carbon mo	ay be softened by some hydrocarbons. red to decompose under normal conditions. pnoxide, olefinic and paraffinic compounds, trace f organic acids, ketones, aldehydes and alcohols	
Hazardous decomposition products	: Material m : Not expect : Carbon me amounts c may be for	ay be softened by some hydrocarbons. red to decompose under normal conditions. pnoxide, olefinic and paraffinic compounds, trace f organic acids, ketones, aldehydes and alcohols	
Hazardous decomposition products Thermal decomposition	: Material m : Not expect : Carbon me amounts c may be for	ay be softened by some hydrocarbons. red to decompose under normal conditions. pnoxide, olefinic and paraffinic compounds, trace f organic acids, ketones, aldehydes and alcohols	
Hazardous decomposition products Thermal decomposition TOXICOLOGICAL INFORMA	: Material m : Not expect : Carbon me amounts c may be for	ay be softened by some hydrocarbons. red to decompose under normal conditions. proxide, olefinic and paraffinic compounds, trace f organic acids, ketones, aldehydes and alcohols med.	
Hazardous decomposition products Thermal decomposition TOXICOLOGICAL INFORMA Acute toxicity	: Material m : Not expect : Carbon mo amounts c may be for	ay be softened by some hydrocarbons. eed to decompose under normal conditions. pnoxide, olefinic and paraffinic compounds, trace f organic acids, ketones, aldehydes and alcohols med.	
Hazardous decomposition products Thermal decomposition TOXICOLOGICAL INFORMA Acute toxicity Acute oral toxicity	 Material m Not expect Carbon me amounts c may be for TION : Not classif	ay be softened by some hydrocarbons. eed to decompose under normal conditions. onoxide, olefinic and paraffinic compounds, trace f organic acids, ketones, aldehydes and alcohols med.	
Hazardous decomposition products Thermal decomposition TOXICOLOGICAL INFORMA Acute toxicity Acute oral toxicity Acute inhalation toxicity	 Material m Not expect Carbon me amounts of may be for TION I Not classif	ay be softened by some hydrocarbons. eed to decompose under normal conditions. onoxide, olefinic and paraffinic compounds, trace f organic acids, ketones, aldehydes and alcohols med.	

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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 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				
Short-term (acute) aquatic	: Not classified			
hazard Long-term (chronic) aquatic hazard	: Not classified			
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Persistence and degradability				
Biodegradability	: Not expected to be biodegradable.			
Bioaccumulative potential				
Bioaccumulation	: This material is not expected to bioaccumulate.			
Mobility in soil				
Mobility	: no data available			
Other adverse effects				
Environmental fate and pathways	: This material is not volatile and insoluble in water.			
Other information				
Additional ecological information	: Ecotoxicity is expected to be minimal based on the low water solubility of polymers.			
13. Disposal considerations				
Waste treatment methods				
Product	: 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.			
14. TRANSPORT INFORMATION				
Not regulated for transport				
15. REGULATORY INFORMATION				
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SAFETY DATA SHEET

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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	Compliant

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 registered under REACh, in accordance with the deadlines set forth in REACh. (Regulation (EU) No. 1907/2006)

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

16. OTHER INFORMATION

HMIS Classification

Material safety datasheet sections which have been updated:

Revised Section(s): 15 16

: Health Hazard: 1 Flammability: 1 Physical hazards: 0



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