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SAFETY DATA SHEET	Ponciplastics.com
	lyondellbasell
Lupolen GX 4087 Version 1.3 Revision Date 1	Gen. Variant: SDS_US_GHS 0/02/2019 Print Date 01/05/2022 SDS No.: BE8318
Version 1.5 Revision Date 1	0/02/2019 FIIII Date 01/05/2022 3DS No.: BE6316
1. IDENTIFICATION OF THE SUBST	ANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
Trade name : CAS Number: :	Lupolen GX 4087 9002-88-4
Chemical characterization :	Polyethylene Homopolymer
Chemical name : Synonyms :	Polyethylene Ethene, homopolymer, PE
Identified uses :	
	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 Address Equistar Chemicals, LP LyondellBasell Tower, Suite 300 1221 McKinney St. P.O. Box 2583 Houston Texas 77252-2583	Customer Service 888 777-0232 product.safety@lyb.com
Emergency telephone number EQUISTAR 800-245-4532 E-mail address : Responsible/issuing person	r 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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May decompose releasing	g irritating and toxic gases.	
. COMPOSITION/INFORMATIO	N ON INGREDIENTS	
Components		
Chemical name	CAS-No.	Weight % Component
Polyethylene	EC-No. 9002-88-4	100.0 %
. FIRST AID MEASURES General advice	: Take proper precautior	ns to ensure your own health and safety
		ue and providing first aid.
If inhaled	<ul> <li>Remove person to fresh air. If signs/symptoms continue, get medical attention.</li> <li>In case of excessive inhalation of fumes that may be generate during heating of this material, move the person to fresh air.</li> <li>Obtain medical attention.</li> <li>Keep person warm, if necessary give Cardio-Pulmonary Resuscitation (CPR)</li> </ul>	
In case of skin contact	large amounts of water Do not attempt to peel skin.	acts the skin, immediately flush with r to cool the affected tissue and polyme polymer from skin as this will remove t ergency medical attention if burn is deep
In case of eye contact	: Flush eyes thoroughly medical attention if dis	with water for several minutes and see comfort persists.
	minutes.	e(s) with cool running water for at least
If swallowed	: Adverse health effects	due to 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	<ul> <li>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 hydrocarbor (smoke).</li> </ul>
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 ir fire.</li> <li>Cool storage containers with large volumes of water even aft fire is out.</li> </ul>
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ACCIDENTAL RELEASE MEA	SURES
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. 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>
. Handling and storage	
Precautions for safe handli	ng
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 explosion</li> </ul>
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	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.
	: Polymer will burn but does not easily ignite.
Conditions for safe storage, in	
areas and containers	<ul> <li>Store in a dry location.</li> <li>Use good housekeeping practices during storage, transferring and handling. Process enclosures and adequate ventilation should be used to avoid excessive dust accumulation.</li> <li>Store away from excessive heat and away from strong oxidizing agents.</li> <li>Keep container closed to prevent contamination.</li> <li>Take measures to prevent the build up of electrostatic charge.</li> </ul>
	: Avoid temperatures above 140 °F, direct sunlight and contact with sources of heat. Store either in the closed original containers in well ventilated area or in silos with vents.
Specific end use(s)	
	: See Section 1.
8. EXPOSURE CONTROLS/PERSON	NAL PROTECTION
Control parameters	
Ingredients with workplace co	ontrol parameters
Occupational Exposure Limits	•
Components CAS-No.	TypeLimit ValueBasisAdditionalRevision DateInformation
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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.

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

## Personal protective equipment

(i.e., there is no leakage from the 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</li> </ul>
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	respirators.
Hand protection	: Wear gloves that provide thermal protection where there is
hand protection	potential for contact with heated material.
Eye and face protection	: Dust service goggles should be worn to prevent mechanica injury or other irritation to eyes due to airborne particles whi may result from handling this product.
Skin and body protection	: Wear suitable protective clothing.
Hygiene measures	<ul> <li>Selection of appropriate personal protective equipment sho be based on an evaluation of the performance characteristi 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.</li> <li>Use good personal hygiene practices.</li> <li>Wash hands before eating, drinking, smoking, or using toile facilities.</li> </ul>
	Take off contaminated clothing and wash before reuse.
PHYSICAL AND CHEMICAL P Appearance Color	Take off contaminated clothing and wash before reuse.
Appearance	Take off contaminated clothing and wash before reuse.  ROPERTIES  Pellets.
Appearance Color	Take off contaminated clothing and wash before reuse.
Appearance Color Odor	Take off contaminated clothing and wash before reuse.         ROPERTIES         : Pellets.         : Translucent to white         : Slight.
Appearance Color Odor Odor Threshold	Take off contaminated clothing and wash before reuse.
Appearance Color Odor Odor Threshold Flash point	Take off contaminated clothing and wash before reuse. <b>ROPERTIES</b>
Appearance Color Odor Odor Threshold Flash point Lower explosion limit	Take off contaminated clothing and wash before reuse.         ROPERTIES         : Pellets.         : Translucent to white         : Slight.         : No value available.         : No Data Available.         : The minimum explosive concentration (MEC) for polymer or varies according to particle size distribution.
Appearance Color Odor Odor Threshold Flash point Lower explosion limit Upper explosion limit	Take off contaminated clothing and wash before reuse.
Appearance Color Odor Odor Threshold Flash point Lower explosion limit Upper explosion limit Flammability (solid, gas)	<ul> <li>Take off contaminated clothing and wash before reuse.</li> <li>ROPERTIES <ul> <li>Pellets.</li> <li>Translucent to white</li> <li>Slight.</li> <li>No value available.</li> <li>No Data Available.</li> <li>The minimum explosive concentration (MEC) for polymer of varies according to particle size distribution.</li> <li>Not applicable.</li> <li>Polymer will burn but does not easily ignite.</li> </ul> </li> </ul>
Appearance Color Odor Odor Threshold Flash point Lower explosion limit Upper explosion limit Flammability (solid, gas) Oxidizing properties	<ul> <li>Take off contaminated clothing and wash before reuse.</li> <li>ROPERTIES <ol> <li>Pellets.</li> <li>Translucent to white</li> <li>Slight.</li> <li>No value available.</li> <li>No Data Available.</li> <li>No Data Available.</li> <li>The minimum explosive concentration (MEC) for polymer of varies according to particle size distribution.</li> <li>Not applicable.</li> <li>Polymer will burn but does not easily ignite.</li> <li>Not considered an oxidizing agent.</li> </ol> </li> </ul>
Appearance Color Odor Odor Threshold Flash point Lower explosion limit Upper explosion limit Flammability (solid, gas) Oxidizing properties Autoignition temperature	Take off contaminated clothing and wash before reuse. <b>ROPERTIES</b> : Pellets.         : Translucent to white         : Slight.         : No value available.         : No Data Available.         : The minimum explosive concentration (MEC) for polymer of 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	Take off contaminated clothing and wash before reuse. <b>ROPERTIES</b> Pellets.  Translucent to white  Slight.  No value available.  No Data Available.  The minimum explosive concentration (MEC) for polymer of varies according to particle size distribution.  Not applicable.  Not applicable.  Not considered an oxidizing agent.  Slight.  not determined

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Vapor pressure	: Not applicable.
Density	: < 1 g/cm3
Water solubility	: Insoluble.
Partition coefficient: n- octanol/water Viscosity, dynamic	<ul><li>No Data Available.</li><li>Not applicable.</li></ul>
Relative vapor density	: Not applicable.
Evaporation rate	: Not applicable.
Explosive properties	: No Data Available.
Other Information	: No additional information available.
Chemical stability Hazardous reactions Conditions to avoid	<ul> <li>Stable under normal conditions.</li> <li>Will not occur.</li> <li>Avoid contact with strong oxidizers, excessive heat, sparks or open flame.</li> </ul>
Materials to avoid	: Material may be softened by some hydrocarbons.
Hazardous decomposition	: Not expected to decompose under normal conditions.
products Thermal decomposition	: Carbon monoxide, olefinic and paraffinic compounds, trace amounts of organic acids, ketones, aldehydes and alcohols may be formed.
11. TOXICOLOGICAL INFORMA	TION
Acute toxicity	
Acute oral toxicity	: Not classified
Acute inhalation toxicity	: Not classified
Acute dermal toxicity	: Not classified
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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	: Not classified
sensitization	
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	: The substance or mixture is not classified as specific target
<b>Toxicant - Repeated</b>	organ toxicant, repeated exposure.
exposure	
Aspiration hazard	: Not applicable.
12. Ecological information	
Ecotoxicology Assessment	
Short-term (acute) aquatic hazard	: Not classified
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	<ul> <li>Ecotoxicity is expected to be minimal based on the low water solubility of polymers.</li> <li>No data available on this product. However, birds, fish and other wildlife may eat pellets which may obstruct their intestinal tracts.</li> </ul>			
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.			
	: This material is classified as a Non-hazardous Material by RCRA.			
14. TRANSPORT INFORMATION				
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Lupolen GX 40	)87			Gen. Var	iant: SDS_US_GHS	
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Not regulated for trans	sport					
15. REGULATORY INFORMATION						
TSCA 12b						
No substances are subject to TSCA 12(b) export notification requirements.						
Significant New Use Rules (SNUR)						
No substances are subject to a Significant New Use Rule.						
SARA 302/304						

This product contains no known chemicals regulated under SARA 302/304.

# SARA 311/312

Based upon available information, this material is classified as the following health and/or physical hazards according to Section 311 & 312:

Combustible dust

# **SARA 313**

This product contains no known chemicals regulated under SARA 313.

## State Reporting

This material does not contain listed substance(s) known to the State of California to cause cancer, birth defects, or other reproductive harm that would require warning under the California Proposition 65 State Drinking Water and Toxic Enforcement Act.

However, LyondellBasell has not tested for the presence of listed chemical substances.

This product contains no known chemicals regulated by New Jersey's Worker and Community Right to Know Act.

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.

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	Country/Region	Inventory	Status De		1		
	Australia	AICS	Compliant				
	Canada China	DSL IECSC	Compliant Compliant				
	Europe	REACH			liance Sta	tement	
	Japan	ENCS	Compliant				
	Korea	KECI	Compliant				
	New Zealand	NZIOC	Compliant				
	Philippines	PICCS	Compliant				
	United States of America	TSCA	Compliant				
	Taiwan	TCSCA	Compliant	t			
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	oduct has been purchased from						
	ed in the European Union, we ed under REACh, in accordand						
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Contact	product.safety@lyb.com for a	dditional global in	ventory info	rmation.			
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16 OTH	6. OTHER INFORMATION						
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Ма	terial safety datasheet section	ons which have	been upda	ted:			
	-		-				
Re	vised Section(s): 15 16						
HIVI		Health Hazard: 0 Flammability: 1					
		Physical hazards:	0	0	1	0	
		r nysica nazarus.	0				
NF	PA Classification	Health Hazard: 0					
		Fire Hazard: 1					
		Instability: 0					
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Fu	rther information						
HM	1IS rating scale (0 = minimal h	azard; 4 = severe	hazard)				
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	Disclaimer					
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<u>Numerical Data Presentation</u> The presentation of numerical data, such as that used for physical and chemical properties and toxicological values, is expressed using a comma (,) to separate digits into groups of three and a period (.) as the decimal marker. For example, 1,234.56 mg/kg = 1 234,56 mg/kg.						
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End of Material Safety Data Sheet						