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SAFETY DATA SHEET	Ponciplastics.com	luce de lle e e ll
according to Regulation (EC) No. 1	907/2006	lyondellbasell
Lupolen 3220F		Gen. Variant: SDS_AT
Version 1.4 Revision Date	05/25/2020 Print Date 01/0	5/2022 SDS No.: BE8244
1. Identification of the substance/	mixture and of the company/und	lertaking
1.1 Product identifier		
Trade name Synonyms	: Lupolen 3220F : Ethene, homopolymer, PE	
Substance name	: Polyethylene	
Substance No.	: 9002-88-4	
Chemical characterization	: Polyethylene Homopolymer	
1.2 Relevant identified uses of the	e substance or mixture and uses	advised against
Identified uses	: Manufacture of plastic articles to or other conversion process.	by injection molding, extrusion
Prohibited uses	: FDA Class III medical devices; devices; Health Canada class I Applications involving permanen Life-sustaining medical applicat	V Medical Devices; nt implantation into the body;
1.3 Details of the supplier of the s	-	per Telenhone
1.3 Details of the supplier of the s Company Basell Sales & Marketing Compar Delftseplein 27E 3013 AA Rotterdam Netherlands	Registration numb	Der Telephone 31 (0) 10 275 55 00
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2. Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Revision Date 05/25/2020

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.3 Other hazards

If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.

May decompose releasing irritating and toxic gases.

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

3. Composition/information on ingredients

3.1 Substances

Components

Chemical name	CAS-No. EINECS-No. / ELINCS No./EC-No.	<u>Weight %</u>	Component Type
Polyethylene	9002-88-4	100.0 %	

4. First aid measures

4.1 Description of first-aid measures

General advice

: Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid.

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If inhaled

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Symptoms	: Inhalation of process fumes and vapors may cause soreness in the nose and throat and coughing.
Hazards	: Dust contact with the eyes can lead to mechanical irritation.

Molten polymer may cause thermal burns.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

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5. Fire-fighting measures	
5.1 Extinguishing media	
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	: None known.
media 5.2 Special hazards arising from	the substance or mixture
Specific hazards during fire fighting	 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 hydrocarbons (smoke).
5.3 Advice for firefighters	
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
	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.
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6. Accidental release measures		
6.1 Personal precautions, protectiv	ve equipment and emergenc	cy procedures
Personal precautions	surface. Equip emergency responde equipment (PPE) Avoid generating dust. Avoid dispersal of dust in th with compressed air). Potential combustible dust h	hazard on any hard smooth rs with proper personal protective ne air (i.e., clearing dust surfaces
	: May Contain trace amounts of oxidation, aldehydes and	of light hydrocarbons, compounds acids
6.2 Environmental precautions		
Environmental precautions	: Do not flush into surface wa	ater or sanitary sewer system.
6.3 Methods and materials for con	tainment and cleaning up	
Methods for containment / Methods for cleaning up	vacuum using equipment w On water, material is insolul solid. All recovered material shou transported and disposed o	ble; collect and contain as any Id be packaged, labeled, f or reclaimed in conformance with ions and in conformance with good
7. Handling and storage		
7.1 Precautions for safe handling		
Advice on safe handling		es during further processing, s, may form combustible dust
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	Avoid dust accumulation in enclosed space. Avoid generating dust; fine dust suspended in air and in the presence of an ignition source is a potential dust explosion hazard. Static discharge (spark), or other ignition sources, in high dust environments may ignite the dust and result in a dust 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.
Fire-fighting class	When bringing the material to processing temperatures vapors may develop may condense in the exhaust ventilation. See section 10. : Polymer will burn but does not easily ignite.
2 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. 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.
	: Maximum allowed storage temperatures of 50°C for maximum 60 days. Avoid direct insufflation of air. Avoid direct sunlight and contact with sources of heat. Store either in the closed original containers in well ventilated area or in silos with vents.
3 Specific end use(s)	: See Section 1.2.
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8. Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

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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	

Consult local authorities for acceptable exposure limits.

8.2 Exposure controls

Engineering measures

Follow the recommendations in international standard 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. 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

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Flash point	: No Data Available.
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	: > 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-	: No Data Available.
octanol/water Viscosity, dynamic	: Not applicable.
Relative vapor density	: Not applicable.
Evaporation rate	: Not applicable.
Explosive properties	: No Data Available.
9.2 Other information	
Other information	: No additional information available.

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Luppolen 3220F Gen. Variant: SDS AT Yersion 1.4 Revision Date 05/25/2020 Print Date 01/05/2022 SDS No.: BE8244 10. Stability and reactivity 10. Reactivity No known reactivity hazards. 10. Chemical stability Stable under normal conditions. 10. Stability of hazardous reactions Hazardous reactions : Will not occur. 10.4 Conditions to avoid : Avoid contact with strong oxidizers, excessive heat, sparks or open flame. 10.5 Incompatible materials Material may be softened by some hydrocarbons. 10. Flazardous decomposition products Hazardous decomposition : Not expected to decompose under normal conditions. products Thermal decomposition : Note: Carbon monoxide, olefinic and paraffinic compounds, trace amounts of organic acids, ketones, aldehydes and alcohols may be formed. 11. Toxicological information : Not classified Acute oral toxicity : Not classified Acute inhalation toxicity : Not classified Acute dermal toxicity <t< th=""><th>SAFETY DATA SHEFT</th><th>Poncip1</th><th>astics.com</th><th>lucedellbacell</th></t<>	SAFETY DATA SHEFT	Poncip1	astics.com	lucedellbacell
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Skin corrosion/irritation : Not a skin irritant.	Acute inhalation toxicity	: Not classified		
	Acute dermal toxicity	: Not classified		
10 / 17	Skin corrosion/irritation	: Not a skin irrit	tant.	
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Serious eye damage/eye irritation	 Not an eye irritant. Mechanical irritation is possil 	
Respiratory or skin sensitization	: Not classified	
Chronic toxicity		
Carcinogenicity	: Not classified	
Germ cell mutagenicity	: Not classified	
Reproductive toxicity		
Effects on fertility / Effects on or via lactation Effects on Development	: Not classified : Not classified	
Target Organ Systemic Toxic		
Target Organ Systemic Toxic		not classified as specific target ure.
Target Organ Systemic Toxic	cant - Repeated exposure	
	: The substance or mixture is organ toxicant, repeated exp	
Aspiration hazard	: Not applicable.	
12. Ecological information 12.1 Ecotoxicology Assessment		
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Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard	: Not classified : Not classified
12.2 Persistence and degradabi	lity
Biodegradability	: Not expected to be biodegradable.
12.3 Bioaccumulative potential	
Bioaccumulation	: This material is not expected to bioaccumulate.
12.4 Mobility in soil	
Mobility	: no data available
12.5 Results of PBT and vPvB as	ssessment
Result	: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).
12.6 Other adverse effects	
Environmental fate and pathways	: This material is not volatile and insoluble in water.
12.7 Other information	
Additional ecological information	: Ecotoxicity is expected to be minimal based on the low water solubility of polymers. No data available on this product. However, birds, fish and other wildlife may eat pellets which may obstruct their intestinal tracts.
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13. Disposal o	considerations			
13.1 Waste tre	eatment methods			
Product	:	transported and dis	sposed of or d regulations ces. Reclaim	be packaged, labeled, reclaimed in conformance with s and in conformance with good where possible.
14. Transport	information			
Not regulated f	or transport			
15. Regulatory	y information			
15.1 Safety, h	ealth and environmen	tal regulations/legi	slation spe	cific for the substance or mixture
registered	ict has been purchased in the European Union, under REACh, in accord	we confirm that the	chemical su	dellBasell group of companies ubstance in this product has been th in REACh. (Regulation (EU) No.
Other inte	ernational regulations			
	IS.		-	nemical inventory requirements or
	*Additional Explanator			-
	Country/Region Australia	AICS		us Description pliant
	Canada	DSL		pliant
	China	IECSC	Com	pliant
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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

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

15.2 Chemical safety assessment

No information available.

16. OTHER INFORMATION

Material safety datasheet sections which have been updated:

Revised Section(s): 15 Abbreviations and Acronyms

ACGIH - American Conference of Governmental Industrial Hygienists

ACGIH_BEIs - American Conference of Governmental Industrial Hygienists_Biological Exposure Indices

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road AICS - Australian Inventory of Chemical Substances ASTM - American Society for Testing and Materials

BEL - Biological Exposure Limits

BTEX - Benzene, Toluene, Ethylbenzene, Xylenes

CAS - Chemical Abstracts Service

CEFIC - European Chemical Industry Council

CLP - Classification Packaging and Labelling

COC - Cleveland Open-Cup

CS - Consumer Scenario

DIN - Deutsches Institut für Normung DN(M)EL - Derived No (Minimal) Effect Level

DSL - Canada Domestic Substance List

EC - European Commission

EC50 - Median Effective Concentration

ECETOC - European Center on Ecotoxicology and Toxicology of Chemicals

ECHA - European Chemicals Agency

EL50 - Effective Loading fifty



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ELINCS - EHR-Lab Interoperability and Connectivity Specification ENCS - Japanese Existing and New Chemical Substances Inventory ERC - Environmental Release Category EUSES - European Union System for the Evaluation of Substances EWC - European Waste Code GHS - Globally Harmonized System of Classification and Labelling of Ch IARC - International Agency for Research on Cancer IATA - International Air Transport Association IC50 - Inhibitory Concentration fifty IL50 = Inhibitory Level fifty IMDG - International Maritime Dangerous Goods IECSC - Chinese Chemicals Inventory **IOELV - Indicative Occupational Exposure Limit Values** IP346 - Institute of Petroleum test method N° 346 for the determination of polycyclic aromatics DMSO-extractables **KECI - Korea Existing Chemicals Inventory** Koc - Organic Carbon/Water Partition Coefficient LC50 - Lethal Concentration fifty LD50 - Lethal Dose fifty per cent. LL/EL/IL - Lethal Loading/Effective Loading/Inhibitory Loading LL50 - Lethal Loading fifty MAK Commission - Permanent Senate Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area MARPOL - International Convention for the Prevention of Pollution from Ships No. - Number NOEC/NOEL - No Observed Effect Concentration / No Observed Effect Level NZIoC - New Zealand Inventory of Chemicals OE HPV - Occupational Exposure - High Production Volume OECD - Organization for Economic Co-operation and Development **OEL - Occupational Exposure Limit** PBT - Persistent, Bio accumulative and Toxic PICCS - Philippine Inventory of Chemicals and Chemical Substances PNEC - Predicted No Effect Concentration PPE - Personal Protective Equipment PROC - Process Category QSAR - Quantitative Structure-Activity Relationship REACh - Registration Evaluation and Authorization of Chemicals RID - Regulations Relating to International Carriage of Dangerous Goods by Rail SDS - Safety Data Sheet SKIN_DES - Skin Designation STEL - Short term exposure limit STP - Standard Temperature and Pressure TCSCA - Taiwan inventory of chemicals TGD - Technical Guidance Document TRA - Targeted Risk Assessment TSCA - US Toxic Substances Control Act TWA - Time-Weighted Average 15 / 17

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UN - United Nations vPvB - very Persistent and very Bioaccumulative WGK - German Water Endangerment Class

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Numerical Data Presentation

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.

Language Translations

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End of Material Safety Data Sheet

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