	(+)	18816996168 ciplastics.com	
SAFETY DATA SHEET	Pone	ciplastics.com	luce de llbe e e ll
according to Regulation (EC) No	o. 1907/2006		lyondellbasell
Lupolen 3621 M RM	1 11/05/0010		Gen. Variant: SDS_AT
Version 1.3 Revision Da	ate 11/05/2019	Print Date 01/	/05/2022 SDS No.: BE9900
<ol> <li>Identification of the substance</li> <li>I.1 Product identifier         <ul> <li>Trade name</li> <li>Synonyms</li> <li>Substance name</li> <li>Substance No.</li> <li>Chemical characterization</li> </ul> </li> <li>Relevant identified uses of         <ul> <li>Identified uses</li> </ul> </li> </ol>	: Lupolen : Ethylene : 1-Hexen : 25213-0 : Polyethy the substance : Manufac	3621 M RM e-1-hexene copolyme le,polymer with ethen 2-9 ylene copolymer e or mixture and use	r, Ethylene-Hexene Copolymer e
Prohibited uses	devices; Applicat	Health Canada class	nent implantation into the body;
1.3 Details of the supplier of th	e safety data	sheet	
<b>Company</b> Basell Sales & Marketing Comp Delftseplein 27E 3013 AA Rotterdam Netherlands	pany B.V.	<b>Registration nun</b> NA	nber         Telephone           31 (0) 10 275 55 00
E-mail address Responsible/issuing person	: product.sa	afety@lyb.com	
1.4 Emergency telephone num	ber		
Basell Sales & Marketing Comp	bany B.V.		+32 3 575 1235
Poison Center: Gesundheid Österreich GMBH AT: +43 1 406 43 43 24 hours all days			
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### 2. Hazards identification

## 2.1 Classification of the substance or mixture

## Classification (REGULATION (EC) No 1272/2008)

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.

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

### 3.2 Mixtures

### Components

Chemical name	CAS-No. EC-No.	Classification (REGULATION (EC) No 1272/2008)	<u>Weight %</u>
1-Hexene,polymer with ethene	25213-02-9	Not Classified	> 99.5 %

Contains: Additives and stabilizers

### 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.

If inhaled	R	Remove	person	to fresh	air. I	f signs/symptoms	continue,	get
						0 7 1	,	•



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	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	<ul> <li>If molten material contacts the skin, immediately flush with large amounts of water to cool the affected tissue and polymer.</li> <li>Do not attempt to peel polymer from skin as this will remove</li> </ul>		
	the skin. Obtain immediate emergency medical attention if burn is deep or extensive.		
In case of eye contact	: Flush eyes thoroughly with water for several minutes and seek medical attention if discomfort persists.		
	<ul> <li>In case of eye contact with molten polymer: Continuously flush eye(s) with cool running water for at least 15 minutes.</li> <li>Beyond flushing, DO NOT attempt to remove the material adherent to the eye(s).</li> <li>Immediately seek medical attention.</li> </ul>		
If swallowed	: Adverse health effects due to ingestion are not anticipated.		
2 Most Important symptoms Symptoms	<ul> <li>and effects, both acute and delayed</li> <li>Inhalation of process fumes and vapors may cause soreness in the nose and throat and coughing.</li> </ul>		
Hazards	: Dust contact with the eyes can lead to mechanical irritation. Molten polymer may cause thermal burns.		
3 Indication of any immedia	te 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.		
Fire-fighting measures			
1 Extinguishing media			
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Version 1.3 Revision Date	11/05/2019       Print Date 01/05/2022       SDS No.: BE9900         : SMALL FIRE: Use dry chemical, CO2, or water spray.       : LARGE FIRES:
Unsuitable extinguishing	Use water spray hose nozzles from a safe location. : None known.
media 5.2 Special hazards arising from t	he substance or mixture
Specific hazards during fire fighting	<ul> <li>Keep away from heat and sources of ignition.</li> <li>In case of fire hazardous decomposition products may be produced such as:</li> <li>Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).</li> </ul>
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	<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 nozzles.</li> <li>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.</li> <li>Always stay away from tanks engulfed in fire.</li> <li>Do not attempt to get on top of storage containers involved in fire.</li> <li>Cool storage containers with large volumes of water even after fire is out.</li> </ul>
6. Accidental release measures	
6.1 Personal precautions, protect	ve equipment and emergency procedures
Personal precautions	: Equip responders with proper protection. Creates dangerous slipping hazard on any hard smooth surface.
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	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.
6.2 Environmental precautions	
Environmental precautions :	Do not flush into surface water or sanitary sewer system.
6.3 Methods and materials for conta	ainment and cleaning up
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.
7. Handling and storage 7.1 Precautions for 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>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> <li>Electrostatic charge may build during conveying or handling.</li> <li>Equipment handling polymer should be conductive and grounded (earthed) and bonded.</li> <li>Metal containers involved in the transfer of this material</li> </ul>
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SAFETY DATA SHI			lastics.com	lyond	ellbasell
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Fire-fighting class		All electrica codes and r combustible After handlin water. When bring may develop section 10. Polymer wil	egulatory require a dusts. ng, always wash ing the material to o may condense I burn but does no	Id conform to appli ments for areas hat hands thoroughly o processing tempo in the exhaust ven ot easily ignite.	andling with soap and eratures vapors
7.2 Conditions for safe s	-		-		
Requirements for sto areas and containers		and handlin should be u Store away oxidizing ag Keep conta	ousekeeping prac g. Process enclosi sed to avoid exce from excessive h gents. iner closed to pre	ctices during storag sures and adequat essive dust accum heat and away from event contamination he build up of election	e ventilation ulation. a strong
7.3 Specific end use(s)		See Sectior	12		
			1 1.2.		
8. Exposure controls/per	sonal protec	tion			
8.1 Control parameters					
Ingredients with wo	rkplace contr	ol parame	ters		
Occupational Expos	ure Limits				
Components	CAS-No.	Туре	Limit Value	Basis Revision Date	Additional Information
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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	

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	<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 respirators.</li> </ul>
Hand protection	: Wear gloves that provide thermal protection where there is a potential for contact with heated material.
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Eye and face protection		due to airborne particles which
	may result from handling this p	
Skin and body protection	: Wear suitable protective clothi	ng.
Hygiene measures	<ul> <li>Selection of appropriate person be based on an evaluation of the of the protective equipment rel performed, conditions present, hazards and/or potential hazar during use.</li> <li>Use good personal hygiene pra Wash hands before eating, drift facilities.</li> <li>Take off contaminated clothing</li> </ul>	the performance characteristics ative to the task(s) to be duration of use, and the rds that may be encountered actices. nking, smoking, or using toilet
Environmental exposure co	ntrols	
General advice	: See section 6.	
9. Physical and chemical proper 9.1 Information on basic physica		
Appearance	: Pellets.	
Color	: Translucent to white	
Odor	: Slight.	
Flash point	: No Data Available.	
Lower explosion limit	: The minimum explosive conce varies according to particle siz	
Upper explosion limit	: Not applicable.	
Flammability (solid, gas)	: Polymer will burn but does not	easily ignite.
Oxidizing properties	: Not considered an oxidizing ag	gent.
Autoignition temperature	: > 300 °C	
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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.	
9.2 Other information		
Other information	: No additional information availal	ble.

### 10. Stability and reactivity

#### 10.1 Reactivity

9.2 Other

No known reactivity hazards.

## 10.2 Chemical stability

Stable under normal conditions.

## 10.3 Possibility of hazardous reactions

Hazardous reactions : Will not occur.

## 10.4 Conditions to avoid

Conditions to avoid : Avoid contact with strong oxidizers, excessive heat, sparks or open flame.

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10.5 Incompatible materials Materials to avoid	: Material may be softened by s	some hydrocarbons.		
<b>10.6 Hazardous decomposition p</b> Hazardous decomposition		inder normal conditions.		
products Thermal decomposition				
11. Toxicological information				
11.1 Information on toxicologica Acute toxicity	Il effects			
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 possibl	le.		
Respiratory or skin sensitization	: Not classified			
Chronic toxicity				
Carcinogenicity	: Not classified			
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Germ cell mutagenicity	: Not classified					
Reproductive toxicity	· Not aloogified					
Effects on fertility / Effects on or via lactation	: Not classified					
Effects on Development	: Not classified					
Target Organ Systemic Toxic						
	: The substance or mixture is not classified as specific target organ toxicant, single exposure.					
Target Organ Systemic Toxic	ant - Repeated exposure					
	: The substance or mixture is n organ toxicant, repeated expo					
Aspiration hazard	: Not applicable.					
12. Ecological information						
12.1 Ecotoxicology Assessment						
Short-term (acute) aquatic hazard	: Not classified					
Long-term (chronic) aquatic hazard	: Not classified					
12.2 Persistence and degradability						
Biodegradability	: Not expected to be biodegrada	able.				
12.3 Bioaccumulative potential						
Bioaccumulation	: This material is not expected t	to bioaccumulate.				
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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	ntal fate and : This material is not volatile and insoluble in water.				
12.7 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					
13.1 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					
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Not regulated for transport

## 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

### **REACH Annex XIV**

None of the substances currently listed in Annex XIV of the REACH regulation 1907/2006/EC or in the SVHC Candidate List are known to be incorporated in this product in quantities >= 0.1 % w/w.

## REACH Annex XVII

None of the substances currently listed in Annex XIV of the REACH regulation 1907/2006/EC or in the SVHC Candidate List are known to be incorporated in this product in quantities >= 0.1 % w/w.

### **REACH - Candidate List of Substances of Very High Concern for Authorisation**

This product does not contain substances of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 57).

### **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)

### 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



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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 16 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 ELINCS - EHR-Lab Interoperability and Connectivity Specification ENCS - Japanese Existing and New Chemical Substances Inventory ERC - Environmental Release Category



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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 **UN - United Nations** vPvB - very Persistent and very Bioaccumulative WGK - German Water Endangerment Class 15 / 16



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### Disclaimer

Multiple legal entities and registration numbers may be displayed in Section 1. The Recipient shall refer to the shipping documents to identify the legal entity that supplied this product.

Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

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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

The information presented in this document has been translated from English by a vendor 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