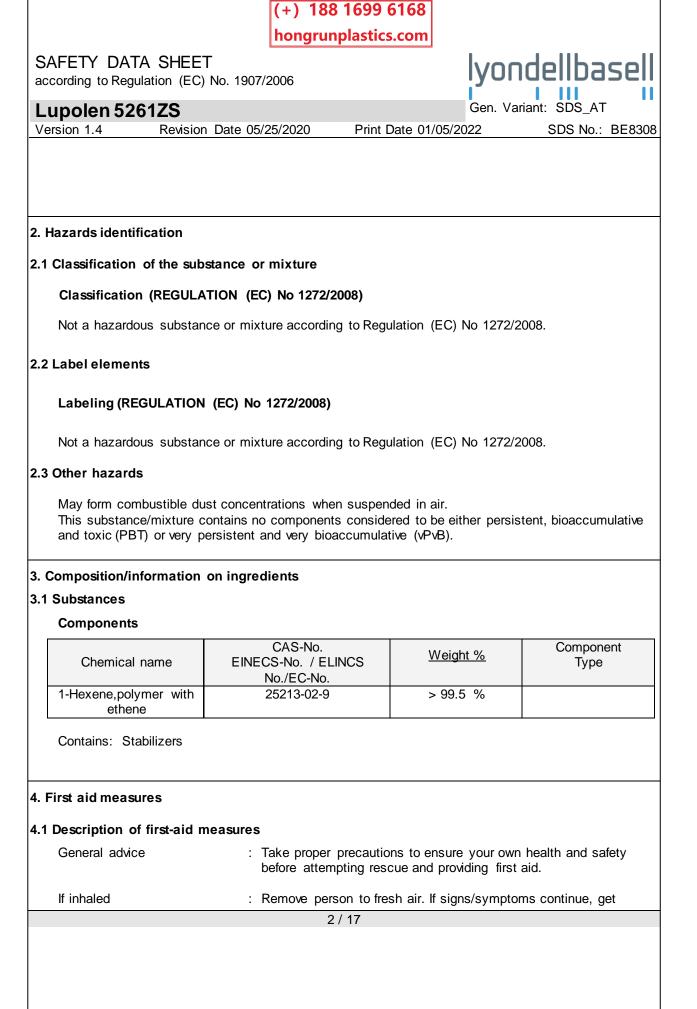
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Lupolen 5261ZS		Gen. Variant: SDS_AT
Version 1.4 Revision	Date 05/25/2020 Print Date 01/0	5/2022 SDS No.: BE83
<b>.1 Product identifier</b> Trade name Synonyms Substance name Substance No. Chemical characterization	<ul> <li>Lupolen 5261ZS</li> <li>Ethylene-1-hexene copolymer,</li> <li>1-Hexene,polymer with ethene</li> <li>25213-02-9</li> <li>Polyethylene copolymer</li> </ul>	Ethylene-Hexene Copolymer
Identified uses	: Manufacture of plastic articles a or other conversion process.	•
Prohibited uses	: FDA Class III medical devices; devices; Health Canada class I Applications involving permaner Life-sustaining medical applicat	V Medical Devices; nt implantation into the body;
<b>Company</b> Basell Sales & Marketing Cor Delftseplein 27E 3013 AA Rotterdam Netherlands	<b>Registration numb</b> npany B.V. NA	<b>Telephone</b> 31 (0) 10 275 55 00
E-mail address Responsible/issuing person	: product.safety@lyb.com	
.4 Emergency telephone nur	nber	
Basell Sales & Marketing Cor <u>Poison Center:</u> Gesundheid Österreich GMBI AT: +43 1 406 43 43 24 hours all days		+32 3 575 1235
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Suitable extinguishing media	: SMALL FIRE: Use dry chemical, CO2, or wat	ter spray.
	: LARGE FIRES: Use water spray hose nozzles	from a safe location.
Unsuitable extinguishing media	: None known.	
5.2 Special hazards arising from	the substance or mixture	
Specific hazards during fire fighting	<ul> <li>Keep away from heat and sour Dust particles from this product solids that present a flash fire of suspended in air.</li> <li>Polymer dust layer melts on th can occur</li> <li>In case of fire hazardous deco produced such as:</li> <li>Carbon monoxide, carbon diox hydrocarbons (smoke).</li> </ul>	t are combustible particulate or explosion hazard when le hot surface before ignition mposition products may be
5.3 Advice for firefighters Special protective equipment	: Wear approved positive pressu	ure self-contained breathing
for fire-fighters	apparatus and firefighter protect	ctive clothing.
Further information	Always stay away from tanks e	kcal/kg ith hose lines or monitor npose polymer, and generate if it can be done without risk. vent of opening of storage es or discoloration of container. engulfed in fire. f storage containers involved in
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6. Accidental release measures			
6.1 Personal precautions, protect	• •	• • •	
Personal precautions	surface. Equip emergency re equipment (PPE) Avoid dispersal of d with compressed air Potential combustib	slipping hazard on any esponders with proper p lust in the air (i.e., clear r). le dust hazard.	personal protective
	Polymer particles cr surfaces.	reate slipping hazard or	hard smooth
6.2 Environmental precautions			
Environmental precautions	: Do not flush into sur	rface water or sanitary	sewer system.
6.3 Methods and materials for co	ntainment and cleanin	ig up	
Methods for containment / Methods for cleaning up	<ul> <li>On land, sweep/show vacuum using equip On water, material is solid.</li> <li>All recovered material transported and disp applicable laws and</li> </ul>	wel into suitable disposonent which avoids ign is insoluble; collect and ial should be packaged posed of or reclaimed i regulations and in con es. Reclaim where pose	ition risk. contain as any , labeled, n conformance with formance with good
7. Handling and storage			
7.1 Precautions for safe handling		otion in evolution of evolution	
Advice on safe handling	Use dust collection ATEX 95. Avoid generating du presence of an ignit hazard.	ation in enclosed space systems designed in ac ust; fine dust suspender ion source is a potentia melts on the hot surface	ccordance with d in air and in the I dust explosion
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### SAFETY DATA SHEET lyondellbasell according to Regulation (EC) No. 1907/2006 Gen. Variant: SDS AT Lupolen 5261ZS Print Date 01/05/2022 Version 1.4 Revision Date 05/25/2020 SDS No.: BE8308 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 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 ATEX 95 and ATEX 137 and related Harmonized European Standards: EN 1127-1 (Explosive atmospheres -Explosion prevention and protection). Fire-fighting class : Polymer will burn but does not easily ignite. 7.2 Conditions for safe storage, including any incompatibilities Requirements for storage : Store in a dry location. Use good housekeeping practices during storage, transferring areas and containers 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. 7.3 Specific end use(s) : See Section 1.2. 6/17



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

In accordance with ATEX 137, follow the recommendations in EN 1127-1(Explosive atmospheres – Explosion Prevention and protection).

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. Equipment and vessels handling combustible dust from this material should be designed to either prevent dust explosions (inerting) or safely vent dust explosions per ATEX 95 and related Harmonized European Standards.

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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.
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	<ul> <li>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.</li> <li>Use good personal hygiene practices.</li> <li>Wash hands before eating, drinking, smoking, or using toilet facilities.</li> <li>Take off contaminated clothing and wash before reuse.</li> </ul>
Environmental exposure co	ntrols
General advice	: See section 6.



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### 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	: Powders or flakes.
Color	: Translucent to white
Odor	: Slight.
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- octanol/water	: No Data Available.
Viscosity, dynamic	: Not applicable.
Relative vapor density	: Not applicable.
Evaporation rate	: Not applicable.
Explosive properties	: No Data Available.

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<b>9.2 Other information</b> Other information	: No additional information available.
10. Stability and reactivity	
10.1 Reactivity	
No known reactivity hazards.	
10.2 Chemical stability	
Stable under normal conditior	IS.
10.3 Possibility of hazardous re	actions
Hazardous reactions	: Will not occur.
10.4 Conditions to avoid	
Conditions to avoid	: Avoid contact with strong oxidizers, excessive heat, sparks or open flame.
10.5 Incompatible materials	
Materials to avoid	: Material may be softened by some hydrocarbons.
10.6 Hazardous 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	
11.1 Information on toxicologica	Il effects
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 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 Tox	icant - Single exposure
	: The substance or mixture is not classified as specific target organ toxicant, single exposure.
Target Organ Systemic Tox	icant - Repeated exposure
	: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Aspiration hazard	: Not applicable.
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12. Ecological information 12.1 Ecotoxicology Assessment	t	
Short-term (acute) aquatic	: Not classified	
hazard Long-term (chronic) aquatic hazard	: Not classified	
12.2 Persistence and degradab	ility	
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 a	assessment	
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.	
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13. Disposal o	considerations				
13.1 Waste tre	eatment methods				
Product		All recovered material	should be packaged, labeled,		
Tioddol		transported and dispo applicable laws and re	sed of or reclaimed in conformance with egulations and in conformance with good Reclaim where possible.		
14. Transport	information				
	mormation				
Not regulated	for transport				
15. Regulator	y information				
15 1 Safaty b	oalth and onvironmon	tal regulations/logisla	tion specific for the substance or mixture		
15.1 Salety, h	eaim and environmen	lai regulationsiegisia	tion specific for the substance of mixture		
REACh stat					
			the LyondellBasell group of companies emical substance in this product has been		
, v	•		is set forth in REACh. (Regulation (EU) No.		
1907/2006					
Other int	a mational regulations				
	ernational regulations				
	ventory Status	a complicat with the fol	awing chamical inventory requirements or		
exemption	•	e compliant with the lor	owing chemical inventory requirements or		
		y Status Statements fo	llow the table, as necessary.		
		-	-		
	Country/Region	Inventory	Status Description		
	Australia Canada	AICS DSL	Compliant Compliant		
	China	IECSC	Compliant		
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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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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

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

