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SAFETY DATA SHEET	Por	) <b>18816996168</b> nciplastics.com	lyon	طماللهمجمال
according to Regulation (EC) No. 19			iyun	dellbasell
<b>CirculenRecover PP189</b>	PGrey	/	Gen. Varia	ant: SDS_AT
Version 1.7 Revision Date (			/07/2022	SDS No.: BE16023
1. Identification of the substance/m	ixture a	nd of the company/u	ndertaking	
1.1 Product identifier				
Trade name :	Circule	nRecover PP189P Gre	ey	
Synonyms :		efin, Compounded poly	vmer	
Substance name :		ounded polyolefin		
1.2 Relevant identified uses of the			U	
Identified uses :		acture of plastic articles or conversion process.	s by injection mo	olding, extrusion
Prohibited uses :	devices	lass III medical devices ; Health Canada class	s IV Medical Dev	ices;
		ations involving permar staining medical applic		into the body;
1.3 Details of the supplier of the sa	fety data	a sheet		
Company		Registration num	nber Te	lephone
Basell Sales & Marketing Company Delftseplein 27E	B.V.	NA		(0) 10 275 55 00
3013 AA Rotterdam Netherlands				
E-mail address :	product.s	safety@lyb.com		
Responsible/issuing person				
1.4 Emergency telephone number				
Basell Sales & Marketing Company	B.V.		+32	3 575 1235
Poison Center:				
Gesundheid Österreich GMBH				
AT: +43 1 406 43 43 24 hours all days				
2. Hazards identification				
2.1 Classification of the substance	or mixtu	ıre		
		1 / 16		
		1710		

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### 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>
Mixture of Polypropylenes	Mixture		60.0 - 70.0 %
Mixture of recycled Polyethylenes	Mixture		15.0 - 25.0 %
Proprietary blend of polyolefinic polymers	Mixture	Not Classified	10.0 - 15.0 %

#### Contains: Additives and stabilizers

The mixture of Polypropylene is a recycled material from post-consumer waste and can contain residues of other polyolefins (polyethylene and other (co-)polymers)

The mixture of Polyethylene is a recycled material from post-consumer waste and can contain residues of other polyolefins (polypropylene and other (co-)polymers)

#### 4. First aid measures

#### 4.1 Description of first-aid measures

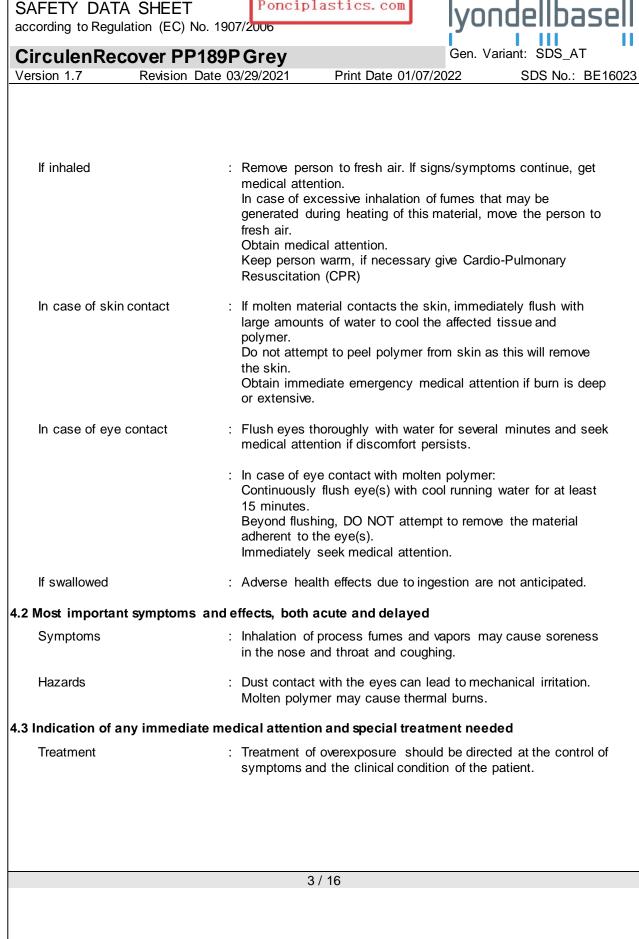
General advice

before attempting rescue and providing first aid.

: Take proper precautions to ensure your own health and safety

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ical, CO2, or water spray.
S: ay hose nozzles from a safe location.
mixture
om heat and sources of ignition. hazardous decomposition products may be h as: xide, carbon dioxide and unburned (smoke).
d positive pressure self-contained breathing d firefighter protective clothing.
barticulate solid, will decompose under fire e: 8000 - 11000 kcal/kg safe distance with hose lines or monitor may melt, decompose polymer, and generate bors. ers from fire area if it can be done without risk. nediately in the event of opening of storage ssure relief devices or discoloration of container. way from tanks engulfed in fire. of to get on top of storage containers involved in
containers with large volumes of water even t.
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Personal precautions	Creates dat surface. Equip emer equipment Avoid gene Avoid dispe with compre Potential co	rating dust. ersal of dust in the air (i.e., clea	personal protective aring dust surfaces
2 Environmental precautions			
Environmental precautions	: Do not flust	n into surface water or sanitary	sewer system.
3.3 Methods and materials for con	tainment and	cleaning up	
Methods for containment / Methods for cleaning up	vacuum usi On water, r solid. All recovere transported applicable l	veep/shovel into suitable disponding equipment which avoids ig naterial is insoluble; collect and and disposed of or reclaimed aws and regulations and in co practices. Reclaim where pos	nition risk. d contain as any d, labeled, in conformance with nformance with good
7. Handling and storage			
7.1 Precautions for safe handling Advice on safe handling	If converted handling, o concentration Avoid dust Avoid gene presence o hazard. Static disch environmen explosion Electrostati	in a pellet form. to small particles during further by other means, may form co ons in air. accumulation in enclosed space rating dust; fine dust suspende f an ignition source is a potent harge (spark), or other ignition ts may ignite the dust and res c charge may build during con handling polymer should be co	ombustible dust ce. ed in air and in the ial dust explosion sources, in high dust ult in a dust veying or handling.

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CirculenRecover PP189PGrey Gen. Variant: SDS_AT					
Version 1.7		te 03/29/2021	Print Date 07	1/07/2022	SDS No.: BE16023
		Metal contains should be g All electricat codes and r combustible After handlir water. When bringi	rounded and bor l equipment shou egulatory require dusts. ng, always wash	the transfer of this	cable electric ndling vith soap and eratures vapors
		section 10.	Thay condense		
Fire-fighting cla	ISS	: Polymer will	l burn but does n	ot easily ignite.	
7.2 Conditions for	safe storage,	including any ir	ncompatibilities	;	
Requirements f areas and cont		and handling should be u Store away oxidizing ag Keep contai	ousekeeping pra g. Process enclo sed to avoid exc from excessive h ents. ner closed to pre	ctices during storag sures and adequate essive dust accumu- neat and away from event contamination ne build up of electro	e ventilation llation. strong
7.3 Specific end us	so(s)				
	~(0)	: See Section	1.2.		
8. Exposure contro 8.1 Control parame Ingredients wi Occupational	eters th workplace	control parame	ters		
Components	CAS-1	No. Type	Limit Value	Basis Revision Date	Additional Information
	i				
		l	6 / 16		

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	evision Date 03/29/2		Print Date 01/	07/202	22	SDS N	lo.: BE16023
Materials that can be formed when handling this product: Non- specified (inert or nuisance) dust		TWA	10 mg/m3 inhalable		(ACGIH) 2005		
Materials that can be formed when handling this product: Non- specified (inert or nuisance) dust		TWA	3 mg/m3 respirable		(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.
Eye and face protection	: Dust service goggles should be worn to prevent mechanical
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(+) 18816996168 Ponciplastics.com SAFETY DATA SHEET lvondellbasell according to Regulation (EC) No. 1907/2006 Gen. Variant: SDS AT CirculenRecover PP189PGrey Version 1.7 Revision Date 03/29/2021 Print Date 01/07/2022 SDS No.: BE16023 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. Environmental exposure controls General advice : See section 6. 9. Physical and chemical properties 9.1 Information on basic physical and chemical properties Appearance : Pellets. Color : gray 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. : Not considered an oxidizing agent. Oxidizing properties Autoignition temperature : > 300 °C Decomposition temperature : not determined 8 / 16

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CirculenRecover PP1	
/ersion 1.7 Revision Da	ate 03/29/2021 Print Date 01/07/2022 SDS No.: BE160
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.
0.2 Other information	
Other information	: No additional information available.
0. Stability and reactivity	
0.1 Reactivity	
No known reactivity hazards.	
0.2 Chemical stability Stable under normal conditio	
<b>10.3 Possibility of hazardous re</b> Hazardous reactions	: Will not occur.
0.4 Conditions to avoid	
0.4 Conditions to avoid Conditions to avoid	: Avoid contact with strong oxidizers, excessive heat, sparks or
	: Avoid contact with strong oxidizers, excessive heat, sparks or open flame.
Conditions to avoid	

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SAFETY DATA SHEET	
according to Regulation (EC) No. 1	Ponciplastics.com lyondellbasell
CirculenRecover PP18	PGrey Gen. Variant: SDS_AT
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Metoriolo to ovoid	. Material may be actuared by some bydrosorbore
Materials to avoid	: Material may be softened by some hydrocarbons.
10.6 Hazardous decomposition p	
Hazardous decomposition products	: Not expected to decompose under normal conditions.
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 toxicological	effects
Acute toxicity	
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 possible.
Respiratory or skin sensitization	: Not classified
Chronic toxicity	
Carcinogenicity	: Not classified
Germ cell mutagenicity	: Not classified
Reproductive toxicity	
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lyondellbasell according to Regulation (EC) No. 1907/2006 Gen. Variant: SDS AT **CirculenRecover PP189PGrey** Version 1.7 Revision Date 03/29/2021 Print Date 01/07/2022 SDS No.: BE16023 Effects on fertility / : Not classified Effects on or via lactation 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 12.1 Ecotoxicology Assessment Short-term (acute) aquatic : Not classified hazard Long-term (chronic) : Not classified aquatic hazard 12.2 Persistence and degradability 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 assessment 11 / 16

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			2 050 No BE10025
Result		ance/mixture contains no	

- 12.6 Other adverse effects Environmental fate and : This material is not volatile and insoluble in water. pathways 12.7 Other information Additional ecological
- : Ecotoxicity is expected to be minimal based on the low water information solubility of polymers. No data available on this product. However, birds, fish and other wildlife may eat pellets which may obstruct their intestinal tracts.

#### 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.

very persistent and very bioaccumulative (vPvB).

#### 14. Transport information

Not regulated for transport

#### 15. Regulatory information

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

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#### **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	Not Compliant
Canada	DSL	Not Compliant
China	IECSC	Not Compliant
Europe	REACH	See REACH Compliance Statement
Japan	ENCS	Not Compliant
Korea	KECI	Not Compliant
New Zealand	NZIoC	Not Compliant
Philippines	PICCS	Not Compliant
United States of America	TSCA	Not Compliant
Taiwan	TCSCA	Not Compliant

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

#### 15.2 Chemical safety assessment

No information available.

#### **16. OTHER INFORMATION**

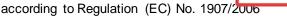
#### Material safety datasheet sections which have been updated:

Revised Section(s): 3 Abbreviations and Acronyms

ACGIH - American Conference of Governmental Industrial Hygienists

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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 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 14 / 16



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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

#### 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

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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