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	CirculenRecover PP220R Ocean Gen. Variant: SDS_AT						
Version 1.0 Revision Date 0		Print Date 01	/07/2022 SDS No.: BE38911				
1. Identification of the substance/mixture and of the company/undertaking 1.1 Product identifier Trade name : CirculenRecover PP220R Ocean Synonyms : 1-Propene polymers, PP Substance name : Polypropylene							
Chemical characterization :	Polypropyle	ne polymers					
1.2 Relevant identified uses of the	substance or	mixture and use	es advised against				
Identified uses :		e of plastic article oversion process.	s by injection molding, extrusion				
1.3 Details of the supplier of the sat	fety data she	et					
Company Basell Sales & Marketing Company Delftseplein 27E 3013 AA Rotterdam Netherlands		Registration nur NA	mber Telephone 31 (0) 10 275 55 00				
E-mail address : Responsible/issuing person	product.safety	/@lyb.com					
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 mixture						
Classification (REGULATION (EC) No 1272/	2008)					
Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.							
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according to Regulation (EC) No. 1907/2006

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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 %

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)

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.
lf inhaled	 Remove person to fresh air. If signs/symptoms continue, get 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
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	Resuscitation (CPR)		
In case of skin contact	 If molten material contacts the skin, immediately flush with large amounts of water to cool the affected tissue and polymer. Do not attempt to peel polymer from skin as this will remove 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.		
	 In case of eye contact with molten polymer: Continuously flush eye(s) with cool running water for at least 15 minutes. Beyond flushing, DO NOT attempt to remove the material adherent to the eye(s). Immediately seek medical attention. 		
If swallowed	: Adverse health effects due to ingestion are not anticipated.		
2 Most important symptoms	and effects, both acute and delayed		
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.		
3 Indication of any immediat	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			
Suitable extinguishing media	a : SMALL FIRE: Use dry chemical, CO2, or water spray.		
	: LARGE FIRES: Use water spray hose nozzles from a safe location.		
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Unsuitable extinguishing media 5.2 Special hazards arising from Specific hazards during fire fighting	 None known. the substance or mixture Keep away from heat and so In case of fire hazardous dec produced such as: Carbon monoxide, carbon did hydrocarbons (smoke). 	omposition products may be
5.3 Advice for firefighters		
Special protective equipment for fire-fighters	: Wear approved positive press apparatus and firefighter prot	
Further information	flammable vapors. Move containers from fire are Evacuate immediately in the container pressure relief devic Always stay away from tanks	kcal/kg with hose lines or monitor ompose polymer, and generate ea if it can be done without risk. event of opening of storage ces or discoloration of container. engulfed in fire. of storage containers involved in
6. Accidental release measures		
6.1 Personal precautions, protect	 Equip responders with proper Creates dangerous slipping h surface. Equip emergency responders equipment (PPE) Avoid generating dust. 	r protection.
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	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	
Advice on safe handling :	Material is in a pellet form. If converted to small particles during further processing, handling, or by other means, may form combustible dust concentrations in air. 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
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		-	-	o processing tempe in the exhaust vent	-
Fire-fighting class	:	Polymer wil	l burn but does n	ot easily ignite.	
7.2 Conditions for safe s	torage, inclu	ıding any iı	ncompatibilities		
 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. 					
7.3 Specific end use(s)	:	See Sectior	n 1.2.		
8. Exposure controls/pers 8.1 Control parameters Ingredients with wor	·		ters		
Occupational Expos	ure 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	

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Materials that can	TWA	3 mg/m3	US (ACGIH)
be formed when		respirable	2005
handling this			
product: Non-			
specified (inert or			
nuisance) dust			

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 engineering controls to keep airborne levels below recommended exposure limits. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Use appropriate respiratory protection where atmosphere exceeds recommended limits. Where workers could be exposed to dust concentrations above the exposure limit they must use appropriate certified respirators.
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.
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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 con						
General advice	: See section 6.					
9. Physical and chemical properti 9.1 Information on basic physical Appearance Color Odor Flash point Lower explosion limit Upper explosion limit Flammability (solid, gas) Oxidizing properties Autoignition temperature Decomposition temperature Melting point/range Boiling point/boiling range	 I and chemical properties Pellets. off-white Slight. No Data Available. 	ot easily ignite.				
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according to Regulation (EC) N	o. 1907/2006	iyu	ondellbase
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Vapor pressure	: Not applicable		
Density	: > 1 g/cm3		
Water solubility	: Insoluble.		
Partition coefficient: n- octanol/water	: No Data Avail	able.	
Viscosity, dynamic	: Not applicable		
Relative vapor density	: Not applicable		
Evaporation rate	: Not applicable.		
Explosive properties	: No Data Available.		
Other information	: No additional	information available.	
0. Stability and reactivity			
I0.1 Reactivity			
No known reactivity hazards	5.		
10.2 Chemical stability			
Stable under normal conditi			
10.3 Possibility of hazardous			
Hazardous reactions	: Will not occur.		
10.4 Conditions to avoid			
Conditions to avoid	: Avoid contact open flame.	with strong oxidizers, exce	essive heat, sparks or
0.5 Incompatible materials			
Materials to avoid	: Material may	be softened by some hydro	ocarbons.
10.6 Hazardous decomposition	n products		
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Hazardous decomposition products Thermal decomposition	 Not expected to decompose Note: Carbon monoxide, ole trace amounts of organic ac alcohols may be formed. 	finic and paraffinic compounds,			
11. Toxicological information					
11.1 Information on toxicologi Acute toxicity	cal 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 possi	ble.			
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	: Not classified				
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Effects on Development	: Not classified			
Target Organ Systemic Toxicant - Single exposure				
	: The substance or mixture is n organ toxicant, single exposu			
Target Organ Systemic Toxi				
	: 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 Long-term (chronic) 	: Not classified : Not classified			
aquatic hazard 12.2 Persistence and degradabili				
Biodegradability	: Not expected to be biodegrada	abla		
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				
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Result		ains no components considered cumulative and toxic (PBT) or ccumulative (vPvB).		
12.6 Other adverse effects				
Environmental fate and pathways	: This material is not volatile ar	nd insoluble in water.		
12.7 Other information				
Additional ecological information	solubility of polymers.	minimal based on the low water duct. However, birds, fish and which may obstruct their		
13. Disposal considerations				
13.1 Waste treatment methods				
Product		or reclaimed in conformance with ns and in conformance with good		
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:

First Edition 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 14 / 16



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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

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.

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Numerical Data Presentation



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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