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SAFETY DATA SHEET according to Regulation (EC) No. 19	907/2006		lyondellbasell
CirculenRecover HD560	03 Grey Plus	5	Gen. Variant: SDS_AT
Version 1.5 Revision Date		Print Date 01/05/20	022 SDS No.: BE16014
1. Identification of the substance/n 1.1 Product identifier	nixture and of th	ne company/undert	aking
Trade name Synonyms Substance name Chemical characterization	 CirculenRecow Ethene polyme Polyethylene Ethylene polyr 		JS
1.2 Relevant identified uses of the	substance or m	ixture and uses ad	lvised against
Identified uses	: Manufacture o or other conve		njection molding, extrusion
1.3 Details of the supplier of the sa	-		
Company Basell Sales & Marketing Company Delftseplein 27E 3013 AA Rotterdam Netherlands		gistration number	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	y 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 1272/20	08)	
Not a hazardous substance or n	nixture according	to Regulation (EC) I	No 1272/2008.
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(+) 188 1699 6168 hongrunplastics.com SAFETY DATA SHEET lyondellbasell according to Regulation (EC) No. 1907/2006 Gen. Variant: SDS AT CirculenRecover HD5603 Grey Plus Revision Date 09/18/2020 Version 1.5 Print Date 01/05/2022 SDS No.: BE16014 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. Classification Weight % EC-No. (REGULATION (EC) No 1272/2008) Mixture of >= 99.5 % Mixture Polyethylenes Contains: Additives and stabilizers 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 : Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid. If 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 2/16

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Version 1.5 Revision Date	e 09/18/2020 Print Date 01/0	05/2022 SDS No.: BE16014				
In case of skin contact	Resuscitation (CPR)	ckin immediately fluch with				
	 If molten material contacts the large amounts of water to cool polymer. Do not attempt to peel polyme the skin. Obtain immediate emergency or extensive. 	I the affected tissue and				
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 mo Continuously flush eye(s) with 15 minutes. Beyond flushing, DO NOT atte adherent to the eye(s). Immediately seek medical atte 	cool running water for at least				
If swallowed	: Adverse health effects due to	ingestion are not anticipated.				
4.2 Most important symptoms ar	d effects, both acute and delaye	ed				
Symptoms	: Inhalation of process fumes and in the nose and throat and cou	nd vapors may cause soreness ughing.				
Hazards	: Dust contact with the eyes car Molten polymer may cause the					
4.3 Indication of any immediate r	nedical attention and special tre	atment needed				
Treatment	: Treatment of overexposure sh symptoms and the clinical con	ould be directed at the control of dition of the patient.				
5. Fire-fighting measures						
5.1 Extinguishing media						
Suitable extinguishing media	: SMALL FIRE: Use dry chemical, CO2, or wa	ter spray.				
	: LARGE FIRES: Use water spray hose nozzles	from a safe location.				
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SAFETY DATA SHEET according to Regulation (EC) No. 1	907/2006	lyondellbasell
CirculenRecover HD56	03 Grey Plus	Gen. Variant: SDS_AT
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Unsuitable extinguishing media 5.2 Special hazards arising from to Specific hazards during fire fighting	: Keep away from heat and	lecomposition products may be
5.3 Advice for firefighters		
Special protective equipment for fire-fighters	: Wear approved positive pr apparatus and firefighter p	essure self-contained breathing rotective clothing.
Further information	conditions. Calorific Value: 8000 - 110 Fight fire from safe distance nozzles. Heat from fire may melt, de flammable vapors. Move containers from fire a Evacuate immediately in th container pressure relief de Always stay away from tan Do not attempt to get on to fire.	e with hose lines or monitor ecompose polymer, and generate area if it can be done without risk. he event of opening of storage evices or discoloration of container.
6. Accidental release measures 6.1 Personal precautions, protect	ive equipment and emergen	cy procedures
Personal precautions	 Equip responders with prop Creates dangerous slipping surface. Equip emergency respondent equipment (PPE) Avoid generating dust. 	
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CirculenRecover HD56		Gen. Variant: SDS_AT
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	Potential combustible dust haz Polymer particles create slippi surfaces.	
6.2 Environmental precautions		
Environmental precautions	: Do not flush into surface wate	r or sanitary sewer system.
6.3 Methods and materials for co	ntainment and cleaning up	
Methods for containment / Methods for cleaning up		ch avoids ignition risk. e; collect and contain as any be packaged, labeled, or reclaimed in conformance with is and in conformance with good
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 handling, or by other means, in concentrations in air. Avoid dust accumulation in en Avoid generating dust; fine du presence of an ignition source hazard. Static discharge (spark), or oth environments may ignite the of explosion Electrostatic charge may build Equipment handling polymer s grounded (earthed) and bonde Metal containers involved in th should be grounded and bond All electrical equipment should codes and regulatory requirem combustible dusts. After handling, always wash h 	may form combustible dust closed space. Ist suspended in air and in the e is a potential dust explosion her ignition sources, in high dust dust and result in a dust during conveying or handling. should be conductive and ed. ne transfer of this material led. d conform to applicable electric
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SAFETY DATA S		7/2006		lyond	ellbase
CirculenRecover HD5603 Grey Plus				Gen. Varian	t: SDS_AT
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		water.			
		-	-	o processing tempe in the exhaust vent	•
Fire-fighting class	:	Polymer wi	ll burn but does n	ot easily ignite.	
2 Conditions for safe	e storage, inclu	uding any i	ncompatibilities	i	
Requirements for s areas and containe		and handlin should be u Store away oxidizing ag Keep conta	ousekeeping pra g. Process enclo used to avoid exc from excessive h gents. iner 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 Ilation. strong
2 Spacific and usa/s	A				Ũ
.3 Specific end use(s		See Section			
.3 Specific end use(s . Exposure controls/p .1 Control parameter Ingredients with v Occupational Exp	bersonal protects rs workplace cont	See Section	n 1.2.		
. Exposure controls/p .1 Control parameter Ingredients with v	bersonal protects rs workplace cont	See Section	n 1.2.	Basis Revision Date	Additional

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CirculenRecover HD5603	Grey Plu	S	Gen. Varia	nt: SDS_AT
Version 1.5 Revision Date 09/	18/2020	Print Date 01/	05/2022	SDS No.: BE16014
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 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 perso	onal protective equipment should
	of the protective equipment re performed, conditions present hazards and/or potential haza during use. Use good personal hygiene p	t, duration of use, and the ards that may be encountered ractices. rinking, smoking, or using toilet
Environmental exposure con		
General advice	: See section 6.	
9. Physical and chemical proper 9.1 Information on basic physica Appearance Color Odor		
Flash point	: No Data Available.	
Lower explosion limit	: The minimum explosive conce varies according to particle size	entration (MEC) for polymer dust ze distribution.
Upper explosion limit	: Not applicable.	
Flammability (solid, gas)	: Polymer will burn but does no	t easily ignite.
Oxidizing properties	: Not considered an oxidizing a	igent.
Autoignition temperature	: > 300 °C	
Decomposition temperature	: not determined	
Melting point/range	: 50 - 170 °C	
Boiling point/boiling range	: Not applicable.	
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Vapor pressure Density Water solubility Partition coefficient: n- octanol/water Viscosity, dynamic Relative vapor density Evaporation rate Explosive properties 9.2 Other information	 Not applicable. < 1 g/cm3 Insoluble. No Data Available. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
Other information 10. Stability and reactivity	: No additional information available.
10.1 Reactivity No known reactivity hazard	
10.2 Chemical stability	5.
Stable under normal condit	tions
10.3 Possibility of hazardous	
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 decompositio	on products
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Hazardous decomp products Thermal decompos	ition :	Note: Carbon r	o decompose ur monoxide, olefini of organic acids be formed.	c and paraffinio	compounds,
11. Toxicological infor	mation				
11.1 Information on to	xicological effe	ects			
Acute toxicity					
Acute oral toxicity		Not classified			
Acute inhalation t	oxicity :	Not classified			
Acute dermal toxi	city :	Not classified			
Skin corrosion/irri	tation :	Not a skin irrita	ant.		
Serious eye dama irritation	ige/eye :	Not an eye irrit Mechanical irri	ant. tation is possible	·.	
Respiratory or ski sensitization	n :	Not classified			
Chronic toxicity					
Carcinogenicity	:	Not classified			
Germ cell mutagen	city :	Not classified			
Reproductive toxi	city				
Effects on fertility / Effects on or via lac	:	Not classified			
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SAFETY DATA SHEET according to Regulation (EC) No.	1907/2006	lyondellbasell
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Effects on Development	: Not classified	
Target Organ Systemic Toxi	cant - Single exposure	
	: The substance or mixtur organ toxicant, single ex	re is not classified as specific target (posure.
Target Organ Systemic Toxi	cant - Repeated exposure	
	: The substance or mixtu organ toxicant, repeated	re is not classified as specific target exposure.
Aspiration hazard	: Not applicable.	
 12. Ecological information 12.1 Ecotoxicology Assessment Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard 	: Not classified : Not classified	
12.2 Persistence and degradabil	ity	
Biodegradability	: Not expected to be biod	egradable.
12.3 Bioaccumulative potential		
Bioaccumulation	: This material is not expe	ected to bioaccumulate.
12.4 Mobility in soil		
Mobility	: no data available	
12.5 Results of PBT and vPvB as		
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Result		to be either pe	e/mixture contain rsistent, bioaccur t and very bioaccu	nulative and to	oxic (PBT) or
12.6 Other adverse	e effects				
Environmenta pathways	I fate and	: This material is	s not volatile and	insoluble in w	ater.
12.7 Other informa	ition				
Additional eco information	ological	solubility of po No data availa	ole on this produce nay eat pellets whe	ct. However, I	birds, fish and
13. Disposal consi	derations				
13.1 Waste treatm	ent methods				
Product		transported an applicable laws	actices. Reclaim	reclaimed in c and in conform	onformance with mance with good
14. Transport info	mation				
Not regulated for tra	ansport				
15. Regulatory info	ormation				
		ental regulations	/legislation spec	ific for the su	bstance or mixture
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according to Regulation (EC) No. 1907/2006

CirculenRecover HD5603 Grey Plus

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SDS No.: BE16014

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Gen. Variant: SDS AT

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): 15 Abbreviations and Acronyms

ACGIH - American Conference of Governmental Industrial Hygienists

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CirculenRecover HD5603 Grey Plus

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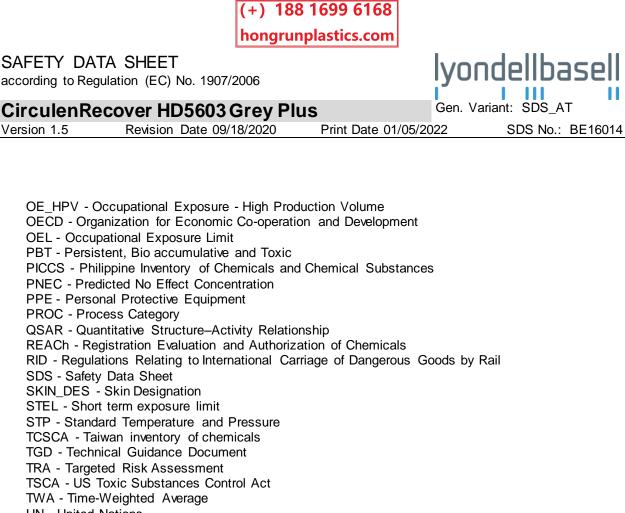
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ACGIH BEIs - American Conference of Governmental Industrial Hygienists Biological Exposure Indices ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road AICS - Australian Inventory of Chemical Substances ASTM - American 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



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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CirculenRec	over HD5603 (Grey Plus	5	Gen. Va	ariant: SDS_AT	1		
Version 1.5	Revision Date 09/1		Print Date 01/05	5/2022	SDS No.: BE1601	4		
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.								
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