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SAFETY DATA SHEET according to Regulation (EC) No.	1907/2006		lyo	Indellbasell
CirculenRecover HD56	603 Ivory P	lus	Gen.	Variant: SDS_AT
	te 09/18/2020	Print Date 01/0	5/2022	SDS No.: BE16015
<ol> <li>Identification of the substance</li> <li>1.1 Product identifier</li> <li>Trade name</li> </ol>	: CirculenRed	cover HD5603 lvory	-	
Synonyms Substance name Chemical characterization	: Ethene poly : Polyethyler : Ethylene po	ie		
1.2 Relevant identified uses of the		•	advised	anainst
Identified uses	: Manufactur			n molding, extrusion
1.3 Details of the supplier of the	safety data she	et		
<b>Company</b> Basell Sales & Marketing Compa Delftseplein 27E 3013 AA Rotterdam Netherlands	any B.V.	Registration numb	ber	<b>Telephone</b> 31 (0) 10 275 55 00
E-mail address Responsible/issuing person	: product.safet	y@lyb.com		
1.4 Emergency telephone number	er			
Basell Sales & Marketing Compa	any 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 substant	ce or mixture			
Classification (REGULATION	N (EC) No 1272	/2008)		
Not a hazardous substance or	r mixture accord	ing to Regulation (E	C) No 127	2/2008.
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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 lvory Plus Revision Date 09/18/2020 Version 1.5 Print Date 01/05/2022 SDS No.: BE16015 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

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CirculenRecover HD56	03 Ivory Plus	Gen. Variant: SDS_AT
Version 1.5 Revision Date	e 09/18/2020 Print Date 01/0	05/2022 SDS No.: BE16015
In case of skin contact	Resuscitation (CPR) : 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.	
In case of eye contact	: Flush eyes thoroughly with wa medical attention if discomfort	ter for several minutes and seek persists.
	<ul> <li>In case of eye contact with mo Continuously flush eye(s) with 15 minutes.</li> <li>Beyond flushing, DO NOT atte adherent to the eye(s).</li> <li>Immediately seek medical atte</li> </ul>	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 ar 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	hould 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.	1907/2006	lyondellbasell
CirculenRecover HD56	03 Ivory Plus	Gen. Variant: SDS_AT
Version 1.5 Revision Date	e 09/18/2020 Print Date 0	01/05/2022 SDS No.: BE16015
Unsuitable extinguishing media <b>5.2 Special hazards arising from</b> Specific hazards during fire fighting	: Keep away from heat and s	ecomposition products may be
5.3 Advice for firefighters		
Special protective equipment for fire-fighters	: Wear approved positive pre apparatus and firefighter pre	essure self-contained breathing otective clothing.
Further information	<ul> <li>conditions.</li> <li>Calorific Value: 8000 - 1100</li> <li>Fight fire from safe distance nozzles.</li> <li>Heat from fire may melt, de flammable vapors.</li> <li>Move containers from fire a Evacuate immediately in the container pressure relief de Always stay away from tank Do not attempt to get on tog fire.</li> </ul>	e with hose lines or monitor compose polymer, and generate rea if it can be done without risk. e event of opening of storage vices or discoloration of container.
6. Accidental release measures 6.1 Personal precautions, protect	tive equipment and emergence	cv procedures
Personal precautions	<ul> <li>Equip responders with prop Creates dangerous slipping surface.</li> <li>Equip emergency responde equipment (PPE)</li> <li>Avoid generating dust.</li> </ul>	
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SAFETY DATA SHEET according to Regulation (EC) No. 15	907/2006	lyondellbasell
CirculenRecover HD560	)3 Ivory Plus	Gen. Variant: SDS_AT
Version 1.5 Revision Date	09/18/2020 Print Date 01/0	05/2022 SDS No.: BE16015
	Potential combustible dust haz Polymer particles create slippin surfaces.	
6.2 Environmental precautions		
Environmental precautions	: Do not flush into surface water	or sanitary sewer system.
6.3 Methods and materials for con	tainment and cleaning up	
Methods for containment / Methods for cleaning up		h avoids ignition risk. ; collect and contain as any be packaged, labeled, r reclaimed in conformance with s and in conformance with good
7. Handling and storage 7.1 Precautions for safe handling		
Advice on safe handling	environments may ignite the d explosion Electrostatic charge may build Equipment handling polymer s grounded (earthed) and bonde Metal containers involved in th should be grounded and bonde All electrical equipment should codes and regulatory requirem combustible dusts.	nay form combustible dust closed space. st suspended in air and in the is a potential dust explosion her ignition sources, in high dust ust and result in a dust during conveying or handling. should be conductive and ed. le transfer of this material ed. I conform to applicable electric
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SAFETY DATA S according to Regulation		7/2006		lyond	ellbase
CirculenRecov	er HD5603	Ivory P	us	Gen. Varian	t: SDS_AT
/ersion 1.5 R	evision Date 09	/18/2020	Print Date 01	1/05/2022	SDS No.: BE160
		-	-	o processing tempe in the exhaust vent	•
Fire-fighting class	:	Polymer wil	l 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 lsed to avoid exc from excessive h gents. iner closed to pre	ctices during storagesures and adequate essive dust accumuneat and away from event contamination the build up of electron	e ventilation ulation. strong
	、				
3 Specific end use(s	-	See Section	n 1.2.		
3 Specific end use(s Exposure controls/p 1 Control parameter Ingredients with v Occupational Exp	bersonal prote s vorkplace cont	ction			
Exposure controls/p 1 Control parameter Ingredients with v	bersonal prote s vorkplace cont	ction		Basis Revision Date	Additional

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SAFETY DATA SHEET according to Regulation (EC) No. 1907	7/2006		lyon	dellbasell
<b>CirculenRecover HD5603</b>	Ivory Pl	us	Gen. Varia	ant: SDS_AT
Version 1.5 Revision Date 09	)/18/2020	Print Date 01	/05/2022	SDS No.: BE16015
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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SAFETY DATA SHEET according to Regulation (EC) No. 1	907/2006	lyondellbasell
<b>CirculenRecover HD56</b>	03 Ivory Plus	Gen. Variant: SDS_AT
Version 1.5 Revision Date	e 09/18/2020 Print Date 01	/05/2022 SDS No.: BE16015
Hygiene measures		onal protective equipment should
	of the protective equipment re performed, conditions presen hazards and/or potential haza during use. Use good personal hygiene p Wash hands before eating, d facilities. Take off contaminated clothir	it, duration of use, and the ards that may be encountered practices. rinking, smoking, or using toilet
Environmental exposure con		
General advice	: See section 6.	
<ul> <li>9. Physical and chemical properti</li> <li>9.1 Information on basic physical Appearance Color</li> <li>Odor</li> <li>Flash point</li> <li>Lower explosion limit</li> <li>Upper explosion limit</li> <li>Flammability (solid, gas)</li> <li>Oxidizing properties</li> <li>Autoignition temperature</li> <li>Decomposition temperature</li> <li>Melting point/range</li> <li>Boiling point/boiling range</li> </ul>	<ul> <li>and chemical properties</li> <li>Pellets.</li> <li>Ivory white</li> <li>Slight.</li> <li>No Data Available.</li> <li>The minimum explosive concervaries according to particle site</li> <li>Not applicable.</li> <li>Polymer will burn but does not</li> <li>Not considered an oxidizing at</li> <li>&gt; 300 °C</li> <li>not determined</li> <li>50 - 170 °C</li> <li>Not applicable.</li> </ul>	ot easily ignite.
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SAFETY DATA SHEET according to Regulation (EC) N	No. 1907/2006 Iyondellbasel
<b>CirculenRecover HD</b>	5603 Ivory Plus Gen. Variant: SDS_AT
Version 1.5 Revision	Date 09/18/2020 Print Date 01/05/2022 SDS No.: BE16015
Vapor pressure Density Water solubility Partition coefficient: n- octanol/water Viscosity, dynamic Relative vapor density Evaporation rate Explosive properties 9.2 Other information	<ul> <li>Not applicable.</li> <li>&lt; 1 g/cm3</li> <li>Insoluble.</li> <li>No Data Available.</li> <li>Not applicable.</li> <li>Not applicable.</li> <li>Not applicable.</li> <li>Not applicable.</li> <li>Not applicable.</li> </ul>
Other information	: No additional information available.
10. Stability and reactivity	
10.1 Reactivity	
No known reactivity hazard 10.2 Chemical stability	S.
Stable under normal condit	ions
10.3 Possibility of hazardous	
Hazardous reactions	: Will not occur.
<b>10.4 Conditions to avoid</b> 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	n products
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SAFETY DATA SHEET according to Regulation (EC) No.	1907/2006	lyondellbasell
<b>CirculenRecover HD5</b>		Gen. Variant: SDS_AT
Version 1.5 Revision Da	te 09/18/2020 Print Date 01	/05/2022 SDS No.: BE16015
Hazardous decomposition products Thermal decomposition	<ul> <li>Not expected to decompose</li> <li>Note: Carbon monoxide, oleft trace amounts of organic acid alcohols may be formed.</li> </ul>	inic and paraffinic compounds,
11. Toxicological information		
11.1 Information on toxicologica Acute toxicity		
Acute oral toxicity		
Acute of a 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 possil	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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SAFETY DATA SHEET according to Regulation (EC) No.	1907/2006	lyondellbasell
CirculenRecover HD56	03 Ivory Plus	Gen. Variant: SDS_AT
Version 1.5 Revision Date		ate 01/05/2022 SDS No.: BE16015
Effects on Development	: Not classified	
Target Organ Systemic Toxi	cant - Single exposure	
	: The substance or mixtu organ toxicant, single e	re is not classified as specific target xposure.
Target Organ Systemic Toxi	cant - Repeated exposure	
	: The substance or mixtu organ toxicant, repeated	re is not classified as specific target d exposure.
Aspiration hazard	: Not applicable.	
<ul> <li>12. Ecological information</li> <li>12.1 Ecotoxicology Assessment Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard</li> </ul>	: Not classified : Not classified	
12.2 Persistence and degradabil	ity	
Biodegradability	: Not expected to be biod	legradable.
12.3 Bioaccumulative potential		
Bioaccumulation	: This material is not exp	ected to bioaccumulate.
12.4 Mobility in soil		
Mobility	: no data available	
12.5 Results of PBT and vPvB as		
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SAFETY DATA according to Regula		907/2006		lyon	dellbasell
CirculenRec					ant: SDS_AT
Version 1.5	Revision Date	99/18/2020	Print Date 01/0	5/2022	SDS No.: BE16015
Result		to be either pe	e/mixture contain rsistent, bioaccu t and very bioacc	mulative and te	oxic (PBT) or
12.6 Other adverse	e effects				
Environmenta pathways	I fate and	: This material i	s not volatile and	insoluble in w	ater.
12.7 Other informa	ition				
Additional eco information	blogical	solubility of po No data availa	ble on this produnay eat pellets w	ct. However,	birds, fish and
13. Disposal consi	derations				
13.1 Waste treatm	ent methods				
Product		transported an applicable law	s and regulations actices. Reclaim	reclaimed in c and in conform	onformance with mance with good
14. Transport infor	mation				
Not regulated for tra	ansport				
15. Regulatory info	ormation				
		ental regulations	/legislation spec	cific for the su	bstance or mixture
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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

### CirculenRecover HD5603 lvory Plus

Version 1.5

Revision Date 09/18/2020 Print Date 01/05/2022

SDS No.: BE16015

lyondellbasell

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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SAFETY DATA SHEET

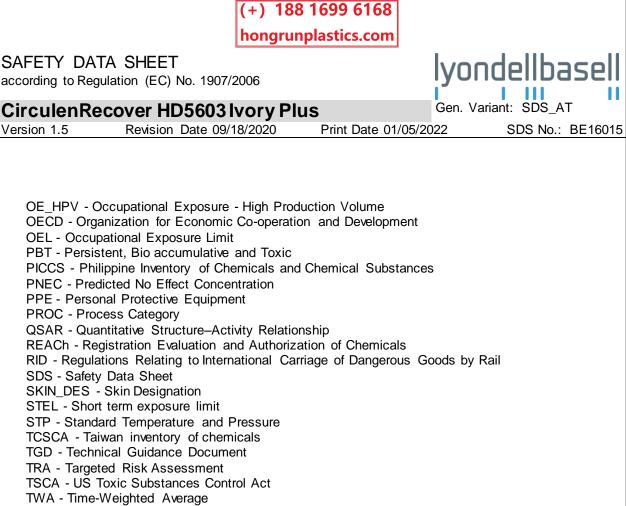
according to Regulation (EC) No. 1907/2006

## CirculenRecover HD5603 lvorv Plus

Version 1.5

SDS No.: BE16015

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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SAFETY DATA SH	HEET		lvoo	dellbasel			
according to Regulation	(EC) No. 1907/2006		IYUI	UCIIDASCI			
CirculenRecove	er HD5603 Ivory Plu	IS	Gen. Va	riant: SDS_AT			
	vision Date 09/18/2020	Print Date 01/05/	2022	SDS No.: BE160	15		
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							
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