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SAFETY DATA SHEET according to Regulation (EC) No.	1907/2006		lyondel	basell
CirculenRecover HD56	603 Grey		Gen. Variant: SI	DS_AT
Version 1.5 Revision Dat	e 09/18/2020	Print Date 01/05/2	2022 SDS	No.: BE16009
1. Identification of the substance. 1.1 Product identifier			rtaking	
Trade name Synonyms Substance name Chemical characterization				
1.2 Relevant identified uses of th	ne substance	or mixture and uses a	dvised against	
Identified uses		ure of plastic articles by conversion process.	injection molding, e	extrusion
1.3 Details of the supplier of the	safety data s			
Company Basell Sales & Marketing Compa Delftseplein 27E 3013 AA Rotterdam Netherlands	any B.V.	Registration number		ie 275 55 00
E-mail address Responsible/issuing person	: product.safe	ety@lyb.com		
1.4 Emergency telephone numbe	er			
Basell Sales & Marketing Compa	ny 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	ce or mixture			
Classification (REGULATION	I (EC) No 127	/2/2008)		
Not a hazardous substance or	mixture acco	rding to Regulation (EC)	No 1272/2008.	
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SAFETY DATA SHEE according to Regulation (EC			yondellbasell
CirculenRecover H	ID5603 Grey	(Gen. Variant: SDS_AT
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combustible dust concer	nce or mixture accordin lerated during further p ntrations in air. contains no component	rocessing, handling or t s considered to be eithe	o 1272/2008. by other means, may form er persistent, bioaccumulative
3. Composition/information	on ingredients		
3.2 Mixtures Components			
Chemical name	CAS-No.	Classification	Weight %
	EC-No.	(REGULATION (EC) No 1272/2008)	
Mixture of Polyethylenes	Mixture		>= 99.5 %
Contains: Additives and The mixture of Polyethyl residues of other polyole	ene is a recycled mate		waste and can contain
4. First aid measures4.1 Description of first-aid n	moasuros		
General advice	: Take proper	precautions to ensure y	your own health and safety ing first aid.
lf inhaled	medical atter In case of ex generated du fresh air. Obtain medic	ntion. ccessive inhalation of fur uring heating of this mat	terial, move the person to
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CirculenRecover HD56	03 Grey Gen. Variant: SDS_AT
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In case of skin contact	 Resuscitation (CPR) 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.
4.2 Most important symptoms and	d 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.
4.3 Indication of any immediate m	nedical attention and special treatment needed
Treatment	: Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.
5. Fire-fighting measures	
5.1 Extinguishing media	
Suitable extinguishing media	: SMALL FIRE: Use dry chemical, CO2, or water 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	Gen. Variant: SDS_AT
Version 1.5 Revision Date	09/18/2020 Print Date 0	01/05/2022 SDS No.: BE16009
Unsuitable extinguishing media 5.2 Special hazards arising from t Specific hazards during fire fighting	: Keep away from heat and s	ecomposition products may be
	hydrocarbons (smoke).	
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	conditions. Calorific Value: 8000 - 1100 Fight fire from safe distance nozzles. Heat from fire may melt, de flammable vapors. Move containers from fire a Evacuate immediately in the container pressure relief de Always stay away from tank Do not attempt to get on top fire.	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	ive equipment and emergence	av procedures
6.1 Personal precautions, protecti Personal precautions	 Equip responders with prop Creates dangerous slipping surface. Equip emergency responde equipment (PPE) Avoid generating dust. 	
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CirculenRecover HD560	-	Gen. Variant: SDS_AT
Version 1.5 Revision Date	09/18/2020 Print Date 01/	05/2022 SDS No.: BE16009
	Potential combustible dust ha Polymer particles create slipp surfaces.	
6.2 Environmental precautions		
Environmental precautions	: Do not flush into surface wate	er or sanitary sewer system.
6.3 Methods and materials for cont	ainment 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 ns and in conformance with good
7. Handling and storage 7.1 Precautions for safe handling		
Advice on safe handling	presence of an ignition source hazard. Static discharge (spark), or of environments may ignite the explosion Electrostatic charge may build Equipment handling polymer grounded (earthed) and bond Metal containers involved in t should be grounded and bond All electrical equipment shoul codes and regulatory requiren combustible dusts.	may form combustible dust inclosed space. Last suspended in air and in the e is a potential dust explosion ther ignition sources, in high dust dust and result in a dust d during conveying or handling. should be conductive and ed. he transfer of this material ded. d conform to applicable electric
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SAFETY DATA SHE		/2006		lyond	ellbase
CirculenRecover				Gen. Varian	
Version 1.5 Revis	sion Date 09/	/18/2020	Print Date 01	/05/2022	SDS No.: BE160
		water.			
		When bring	-	o processing tempe in the exhaust vent	•
Fire-fighting class	: 1	Polymer wil	l burn but does n	ot easily ignite.	
2 Conditions for safe s	torage, inclu	ding any ii	ncompatibilities		
Requirements for stor areas and containers		and handlin should be u Store away oxidizing ag Keep conta	ousekeeping prac g. Process enclose lesed to avoid exce from excessive h gents. iner closed to pre	ctices during storages sures and adequate essive dust accumu eat and away from vent contamination the build up of electron	e ventilation Ilation. strong
3 Specific end use(s)	: :	See Sectior	n 1.2.		
Exposure controls/per 1 Control parameters	sonal protec		ters		
Occupational Expos	ure Limits				
-	ure Limits CAS-No.	Туре	Limit Value	Basis Revision Date	Additional Information
Occupational Expos		Type TWA	Limit Value 10 mg/m3 inhalable		
Occupational Expose Components Materials that can be formed when handling this product: Non- specified (inert or			10 mg/m3	Revision Date US (ACGIH)	

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CirculenRecover HD5603G	Grey		Gen. Variar	it: SDS_AT
Version 1.5 Revision Date 09/1	8/2020	Print Date 01/	/05/2022	SDS No.: BE16009
Materials that can be formed when handling this product: Non- specified (inert or nuisance) dust Consult local authorities for acceptable ex	TWA	3 mg/m3 respirable s.	US (ACGIH) 2005	

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	trols
General advice	: See section 6.
9. Physical and chemical properti 9.1 Information on basic physical	
Appearance	: Pellets.
Color	: Grey.
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.
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CirculenRecover HD	
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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. No Data Available.
Other information	: No additional information available.
10. Stability and reactivity	
10.1 Reactivity	
No known reactivity hazard 10.2 Chemical stability	15.
Stable under normal condi	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	
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SAFETY DATA SHEET ccording to Regulation (EC) No.	1907/2006	lyondellbase
CirculenRecover HD5		Gen. Variant: SDS_AT
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Hazardous decomposition products Thermal decomposition	 Not expected to decompose u Note: Carbon monoxide, olefir trace amounts of organic acid alcohols may be formed. 	nic and paraffinic compounds,
. Toxicological information		
1.1 Information on toxicologica Acute toxicity	ai effects	
Acute oral toxicity		
Acute oral location	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 possib	le.
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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CirculenRecover HD56		Gen. Variant: SDS_AT		
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Effects on Development	: Not classified			
Target Organ Systemic Toxic	cant - Single exposure			
	: The substance or mixture is r organ toxicant, single exposu			
Target Organ Systemic Toxic	cant - Repeated exposure			
	: The substance or mixture is r organ toxicant, repeated expo	· · · · · ·		
Aspiration hazard	: Not applicable.			
12. Ecological information				
12.1 Ecotoxicology Assessment				
Short-term (acute) aquatic hazard	: Not classified			
Long-term (chronic)	: Not classified			
aquatic hazard				
12.2 Persistence and degradabili	ity			
Biodegradability	: Not expected to be biodegrad	adie.		
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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SAFETY DATA SH according to Regulation		06		lyon	dellbasell		
CirculenRecove					Gen. Variant: SDS_AT		
Version 1.5 Rev	vision Date 09/18/	′2020 F	Print Date 01/08	5/2022	SDS No.: BE16009		
Result	to b	be either persi	nixture contain stent, bioaccur nd very bioacc	mulative and to	. ,		
12.6 Other adverse effe	cts						
Environmental fate pathways	and : This	s material is r	ot volatile and	insoluble in wa	ater.		
12.7 Other information							
Additional ecologic information	sol No oth	ubility of polyr data available	xicity is expected to be minimal based on the low water lity of polymers. Ita available on this product. However, birds, fish and wildlife may eat pellets which may obstruct their inal tracts.				
13. Disposal considerat	ions						
13.1 Waste treatment m	ethods						
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.						
14. Transport information	on						
Not regulated for transpo	rt						
15. Regulatory information	lion						
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture							
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SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

CirculenRecover HD5603 Grey

Version 1.5 Revision Date 09/18/2020

Print Date 01/05/2022

SDS No.: BE16009

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.

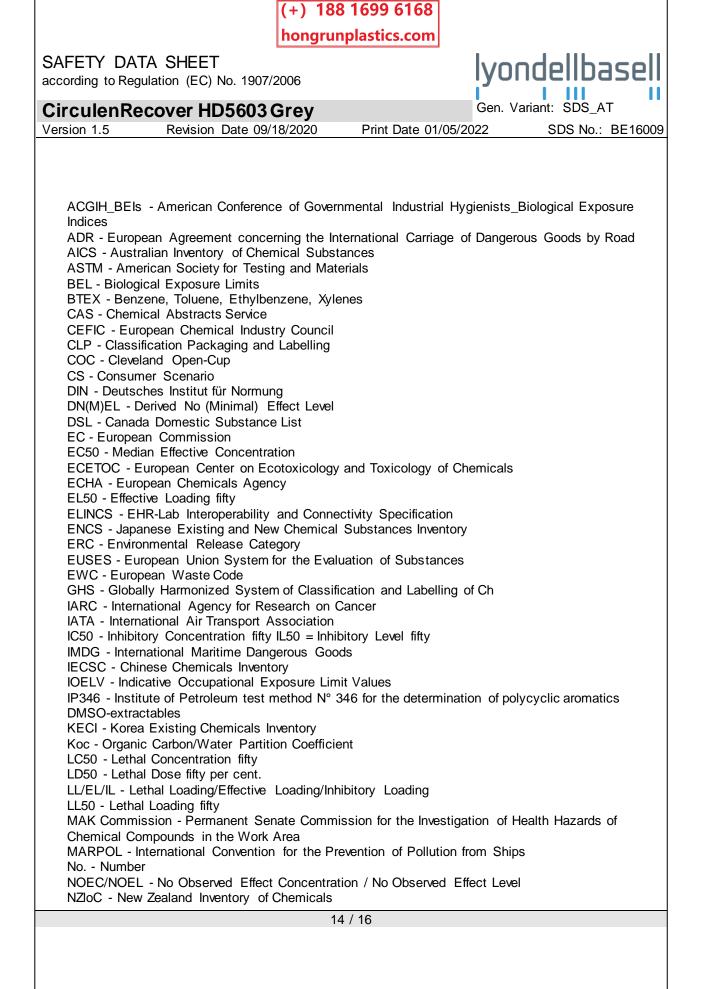
16. OTHER INFORMATION

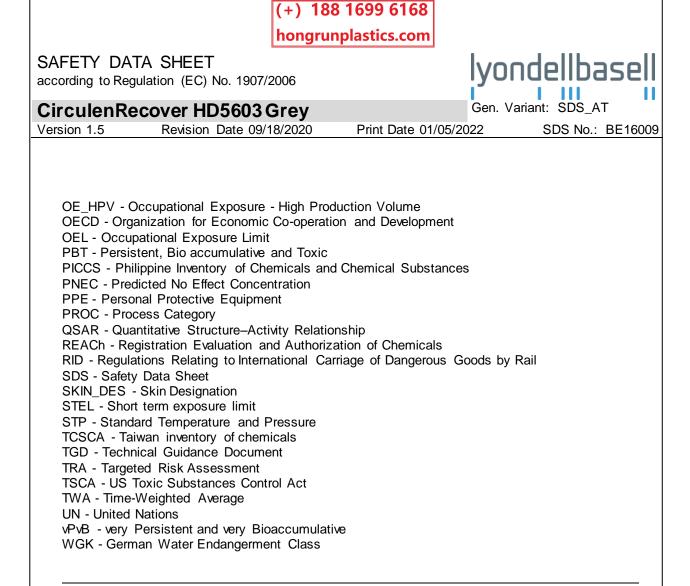
Material safety datasheet sections which have been updated:

Revised Section(s): 15 Abbreviations and Acronyms

ACGIH - American Conference of Governmental Industrial Hygienists

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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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CirculenRecover HD5603 Grey Gen. Variant: SDS_AT									
	vision Date 09/1	-	Print Date 01/	/05/2022	SDS No.: BE16009				
The presentation o toxicological values a period (.) as the o	s, is expressed	using a comm	na (,) to separa	ate digits into g	roups of three and				
		i or oxampio	, 1,20 1100 111g/						
<u>Language Translations</u> 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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