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SAFETY DATA SHEET		Ponci	8816996168 plastics.com		مطوالهمجووال
according to Regulation (EC) No. 19	07/2	2006		i iyu	ondellbasell
CirculenRenew C14 LD2	242	20K		Gen.	Variant: SDS_AT
Version 1.0 Revision Date (	09/1	5/2021	Print Date 01	/05/2022	SDS No.: BE43065
1. Identification of the substance/m 1.1 Product identifier	ixt	ure and	of the company/u	ndertaking	
Trade name :	C	`irculonPr	enew C14 LD2420ł	c	
Synonyms :			omopolymer, PE	<b>`</b>	
Substance name :		olyethyle			
Substance No. : Chemical characterization :	-	002-88-4 olvethvle	ene Homopolymer		
					•
1.2 Relevant identified uses of the					-
Identified uses :			re of plastic articles onversion process.	s by injectio	n molding, extrusion
Prohibited uses :	d A	evices; H	s III medical devices lealth Canada clas ns involving permar ning medical applic	s IV Medical nent implant	
1.3 Details of the supplier of the sa	fety	/datash		_	
<b>Company</b> Basell Sales & Marketing Company Delftseplein 27E 3013 AA Rotterdam Netherlands	В.	V.	<b>Registration nur</b> NA	nber	<b>Telephone</b> 31 (0) 10 275 55 00
E-mail address : Responsible/issuing person	pro	duct.safe	ety@lyb.com		
1.4 Emergency telephone number					
Basell Sales & Marketing Company	В.	V.			+32 3 575 1235
Poison Center: Gesundheid Österreich GMBH AT: +43 1 406 43 43 24 hours all days					
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according to Regulation (EC) No. 1907/2006

# CirculenRenew C14 LD2420K

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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.

## 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.

May decompose releasing irritating and toxic gases.

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

### 3.1 Substances

### Components

Chemical name	CAS-No. EINECS-No. / ELINCS No./EC-No.	<u>Weight %</u>	Component Type
Polyethylene	9002-88-4	<=100.0 %	

## 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

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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 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 dee or extensive.         In case of eye contact       : Flush eyes thoroughly with water for several minutes and see medical attention if discomfort persists.         In case of eye contact       : Flush eyes thoroughly 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.         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 attention of the patient.         Symptoms       : Inhalation of overxposure should be directed at the control symptoms and the clinical condition of the patient.	irculenRenew C1			ariant: SDS_AT
In case of excessive inhalation of fumes that may be generated during heating of this material, move the person to firesh air. Obtain medical attention. Keep person warm, if necessary give Cardio-Pulmonary 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 dee or extensive. In case of eye contact : Flush eyes thoroughly with water for several minutes and see 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. <b>2! Most important symptoms and effects, both acute and delayed</b> 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. <b>3! Indication of any immediate medical attention and special treatment needed</b> Treatment : Treatment of overexposure should be directed at the control symptoms and the clinical condition of the patient.	ersion 1.0 Revisio	n Date 09/15/2021	Print Date 01/05/2022	SDS No.: BE43
polymer.       Do not attempt to peel polymer from skin as this will remove the skin.         Obtain immediate emergency medical attention if burn is dee or extensive.         In case of eye contact       : Flush eyes thoroughly with water for several minutes and see 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 immediate medical attention and special treatment needed         Treatment       : Treatment of overexposure should be directed at the control symptoms and the clinical condition of the patient.         Fire-fighting measures         1 Extinguishing media	In case of skin contact	In case of ex generated d fresh air. Obtain medi Keep persor Resuscitation	xcessive inhalation of fumes th luring heating of this material, i cal attention. h warm, if necessary give Carc on (CPR) aterial contacts the skin, immed	move the person to lio-Pulmonary diately flush with
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       :         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 immediate medical attention and special treatment needed         Treatment       :         :       Treatment of overexposure should be directed at the control symptoms and the clinical condition of the patient.         Fire-fighting measures       1         1       Extinguishing media		polymer. Do not atten the skin. Obtain imme	npt to peel polymer from skin a ediate emergency medical atte	as this will remove
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 immediate medical attention and special treatment needed Treatment : Treatment of overexposure should be directed at the control symptoms and the clinical condition of the patient. Fire-fighting measures 1 Extinguishing media	In case of eye contact			al minutes and seek
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 immediate medical attention and special treatment needed     Treatment     : Treatment of overexposure should be directed at the control     symptoms and the clinical condition of the patient.     .     Fire-fighting measures     .1 Extinguishing media		Continuously 15 minutes. Beyond flus adherent to	y flush eye(s) with cool running hing, DO NOT attempt to remo the eye(s).	g water for at least
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 immediate medical attention and special treatment needed         Treatment       : Treatment of overexposure should be directed at the control symptoms and the clinical condition of the patient.         . Fire-fighting measures         .1 Extinguishing media	If swallowed	: Adverse hea	alth effects due to ingestion are	e not anticipated.
<ul> <li>in the nose and throat and coughing.</li> <li>Hazards</li> <li>Dust contact with the eyes can lead to mechanical irritation. Molten polymer may cause thermal burns.</li> <li>3 Indication of any immediate medical attention and special treatment needed</li> <li>Treatment</li> <li>Treatment of overexposure should be directed at the control symptoms and the clinical condition of the patient.</li> <li>Fire-fighting measures</li> <li>1 Extinguishing media</li> </ul>	2 Most important sympto	ms and effects, both	acute and delayed	
Molten polymer may cause thermal burns. 3 Indication of any immediate medical attention and special treatment needed Treatment : Treatment of overexposure should be directed at the control symptoms and the clinical condition of the patient. Fire-fighting measures 1 Extinguishing media	Symptoms			ay cause soreness
Treatment       : Treatment of overexposure should be directed at the control symptoms and the clinical condition of the patient.         Fire-fighting measures       .1 Extinguishing media	Hazards			
symptoms and the clinical condition of the patient Fire-fighting measures .1 Extinguishing media	.3 Indication of any imme	diate medical attentic	on and special treatment nee	ded
.1 Extinguishing media	Treatment			
	5. Fire-fighting measures			
3 / 16	5.1 Extinguishing media			
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Suitable extinguishing media Unsuitable extinguishing media <b>5.2 Special hazards arising from</b> Specific hazards during fire	ן בייר בייר נו the s	SMALL FIRE: Jse dry chemical, CO2, or water ARGE FIRES: Jse water spray hose nozzles fro None known. Substance or mixture Keep away from heat and source	om a safe location.
fighting	li F C	n case of fire hazardous decomporduced such as: Carbon monoxide, carbon dioxid hydrocarbons (smoke).	position products may be
.3 Advice for firefighters			
Special protective equipment for fire-fighters		Vear approved positive pressure apparatus and firefighter protecti	
Further information	C F F F F F F S C C C C C C C F C C C C	Combustible particulate solid, will conditions. Calorific Value: 8000 - 11000 kc Fight fire from safe distance with nozzles. Heat from fire may melt, decomp lammable vapors. Move containers from fire area if Evacuate immediately in the even container pressure relief devices Always stay away from tanks end to not attempt to get on top of s fre. Cool storage containers with larg after fire is out.	al/kg hose lines or monitor ose polymer, and generate it can be done without risk. nt of opening of storage or discoloration of container. gulfed in fire. torage containers involved in
6. Accidental release measures			
6.1 Personal precautions, protect	ctive e	equipment and emergency pro	ocedures
Personal precautions	( 5	Equip responders with proper pro Creates dangerous slipping haza surface. Equip emergency responders wit	ard on any hard smooth
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	with compres Potential com Polymer parti surfaces. : May Contain	ting dust. al of dust in the air (i.e sed air). hbustible dust hazard. cles create slipping ha	e., clearing dust surfaces zard on hard smooth hydrocarbons, compound	S
6.2 Environmental precautions				
Environmental precautions	: Do not flush i	nto surface water or sa	anitary sewer system.	
6.3 Methods and materials for con	ntainment and c	leaning up		
Methods for containment / Methods for cleaning up	vacuum using On water, ma solid. All recovered transported a applicable lay	g equipment which avoi aterial is insoluble; colle material should be pao nd disposed of or recla	ect and contain as any ckaged, labeled, aimed in conformance with in conformance with goo	
7. Handling and storage				
7.1 Precautions for safe handling				
Advice on safe handling	handling, or b concentration Avoid dust ac Avoid general presence of a hazard. Static dischar environments explosion Electrostatic Equipment ha	o small particles during by other means, may fo s in air. ccumulation in enclosed ting dust; fine dust sus an ignition source is a p rge (spark), or other igr may ignite the dust an	orm combustible dust d space. spended in air and in the potential dust explosion nition sources, in high dus nd result in a dust g conveying or handling.	st
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All e code com After wate Whe may secti Fire-fighting class : Poly 7.2 Conditions for safe storage, including Requirements for storage areas and containers : Store use and ushou Store oxidi Keep Take : Maxi 60 d Avoid Avoid Store area 7.3 Specific end use(s) : See 3. Exposure controls/personal protection 3.1 Control parameters	2021 Print Date 01/05/2022 SDS No.: BE4306 al containers involved in the transfer of this material ald be grounded and bonded. lectrical equipment should conform to applicable electric as and regulatory requirements for areas handling bustible dusts. Thandling, always wash hands thoroughly with soap and ar. In bringing the material to processing temperatures vapors develop may condense in the exhaust ventilation. See ion 10.
All e code com After wate Whe may secti Fire-fighting class : Poly 7.2 Conditions for safe storage, including Requirements for storage areas and containers : Store use and ushou Store oxidi Keep Take : Maxi 60 d Avoid Avoid Store area 7.3 Specific end use(s) : See 3. Exposure controls/personal protection 3.1 Control parameters	<ul> <li>Id be grounded and bonded.</li> <li>lectrical equipment should conform to applicable electric es and regulatory requirements for areas handling bustible dusts.</li> <li>handling, always wash hands thoroughly with soap and er.</li> <li>on bringing the material to processing temperatures vapors develop may condense in the exhaust ventilation. See ion 10.</li> <li>mer will burn but does not easily ignite.</li> <li>g any incompatibilities</li> </ul>
Fire-fighting class       : Poly <b>2.2 Conditions for safe storage</b> , including         Requirements for storage areas and containers       : Store Use and I shou Store oxidi         areas       : Maxi 60 da Avoid Avoid Store area <b>3.3 Specific end use(s)</b> : See <b>4. Exposure controls/personal protection 6.1 Control parameters</b>	mer will burn but does not easily ignite. g any incompatibilities
2.2 Conditions for safe storage, including         Requirements for storage areas and containers       Store use and is should shoul	g any incompatibilities
Requirements for storage areas and containers : Store Use and shou Store oxidi Keep Take : Maxi 60 da Avoid Avoid Store area : See : See : See	
areas and containers Use and shou Store oxidi Keep Take : Maxi 60 d Avoid Avoid Store area .3 Specific end use(s) : See . Exposure controls/personal protection .1 Control parameters	e in a dry location.
60 d Avoid Store area 3.3 Specific end use(s) : See 3. Exposure controls/personal protection 3.1 Control parameters	good housekeeping practices during storage, transferring handling. Process enclosures and adequate ventilation and be used to avoid excessive dust accumulation. e away from excessive heat and away from strong izing agents. b container closed to prevent contamination. e measures to prevent the build up of electrostatic charge.
: See . Exposure controls/personal protection .1 Control parameters	imum allowed storage temperatures of 50°C for maximum ays. d direct insufflation of air. d direct sunlight and contact with sources of heat. e either in the closed original containers in well ventilated or in silos with vents.
. Exposure controls/personal protection .1 Control parameters	
.1 Control parameters	Section 1.2.
Ingredients with workplace control p Occupational Exposure Limits	

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Components	CAS-No.	Туре	Limit Value	Basis	Additional
				Revision Date	Information
Materials that can		TWA	10 mg/m3	US (ACGIH)	
be formed when			inhalable	2005	
handling this					
product: Non-					
specified (inert or					
nuisance) dust					
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	<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
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	potential for	contact with heated material.	
Free and free marked then			
Eye and face protection	injury or othe	goggles should be worn to pre er irritation to eyes due to airbor om handling this product.	
Skin and body protection	: Wear suitab	le protective clothing.	
Hygiene measures	be based on of the protec performed, of hazards and during use. Use good pe Wash hands facilities.	appropriate personal protective an evaluation of the performan tive equipment relative to the ta- conditions present, duration of a /or potential hazards that may ersonal hygiene practices. before eating, drinking, smokin taminated clothing and wash b	nce characteristics ask(s) to be use, and the be encountered ng, or using toilet
Environmental exposure of	ontrols		
General advice	: See section	6.	
hysical and chemical prope nformation on basic physic Appearance		properties	
	solid		
Color	: Translucent	to white	
Odor	: Slight.		
Flash point	: No Data Ava	ilable.	
	. The mainimum	m explosive concentration (ME)	
Lower explosion limit		ding to particle size distribution	
Lower explosion limit Upper explosion limit		ding to particle size distribution	
	varies accor : Not applicab	ding to particle size distribution	
Upper explosion limit	varies accor : Not applicab : Polymer will	ding to particle size distribution le.	
Upper explosion limit Flammability (solid, gas)	varies accor : Not applicab : Polymer will : Not consider	ding to particle size distribution le. burn but does not easily ignite.	

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Autoignition temperature	: > 300	°C		
Decomposition temperature	: not de	etermined		
Melting point/range	: 50 - 1	70 °C		
Boiling point/boiling range	: Not a	oplicable.		
Vapor pressure	: Not a	oplicable.		
Density	: <1g/	cm3		
Water solubility	: Insolu	ble.		
Partition coefficient: n- octanol/water	: No Da	ata Available.		
Viscosity, dynamic	: Not a	oplicable.		
Relative vapor density	: Not a	oplicable.		
Evaporation rate	: Not a	oplicable.		
Explosive properties	: No Da	ata Available.		
0.2 Other information				
Other information	: No ac	lditional informatio	on available.	
0. Stability and reactivity				
0.1 Reactivity				
No known reactivity hazards.				
0.2 Chemical stability				
Stable under normal conditior	ns.			
0.3 Possibility of hazardous re	actions			
Hazardous reactions	: Will n	ot occur.		
0.4 Conditions to avoid				
Conditions to avoid	: Avoid	contact with stro	na oxidizers. exce	ssive heat, sparks or
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	open flame.
10.5 Incompatible materials	
Materials to avoid	: Material may be softened by some hydrocarbons.
10.6 Hazardous decomposition	products
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 toxicologic	al 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

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Germ cell mutagenicity	: Not classified	
Reproductive toxicity		
Effects on fertility /	: Not classified	
Effects on or via lactation Effects on Development	: Not classified	
Target Organ Systemic Toxic	nt - Single exposure	
	: The substance or mixture is not classified as specific target organ toxicant, single exposure.	
Target Organ Systemic Toxic	nt - 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 hazard	Not classified	
Long-term (chronic) aquatic hazard	Not classified	
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		
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Mobility	: no data available		
12.5 Results of PBT and vPvB ass	æssment .		
Result	: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).		
12.6 Other adverse effects			
Environmental fate and pathways	: This material is not volatile and insoluble in water.		
12.7 Other information			
Additional ecological information	<ul> <li>Ecotoxicity is expected to be minimal based on the low water solubility of polymers.</li> <li>No data available on this product. However, birds, fish and other wildlife may eat pellets which may obstruct their intestinal tracts.</li> </ul>		
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.		
14. Transport information			
Not regulated for transport			
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### 15. Regulatory information

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

#### **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 the chemical substance in this product has 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	Compliant
Canada	DSL	Compliant
China	IECSC	Compliant
Europe	REACH	See REACH Compliance Statement
Japan	ENCS	Compliant
Korea	KECI	Compliant
New Zealand	NZIoC	Compliant
Philippines	PICCS	Compliant
United States of America	TSCA	Compliant
Taiwan	TCSCA	Compliant

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

#### 15.2 Chemical safety assessment

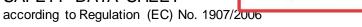
No information available.

#### 16. OTHER INFORMATION

Material safety datasheet sections which have been updated:

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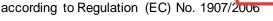
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First Edition	
Abbreviations and Acronyms	
	ernmental Industrial Hygienists of Governmental Industrial Hygienists_Biological Exposure
ndices ADR - European Agreement concernin	g the International Carriage of Dangerous Goods by Road
AICS - Australian Inventory of Chemica	
ASTM - American Society for Testing a	and Materials
BEL - Biological Exposure Limits	ne. Velenee
BTEX - Benzene, Toluene, Ethylbenze CAS - Chemical Abstracts Service	ne, Xylenes
CEFIC - European Chemical Industry	Council
CLP - Classification Packaging and La	
COC - Cleveland Open-Cup	°
CS - Consumer Scenario	
DIN - Deutsches Institut für Normung DN(M)EL - Derived No (Minimal) Effec	
DSL - Canada Domestic Substance Lis	
EC - European Commission	
EC50 - Median Effective Concentratior	
ECETOC - European Center on Ecoto	xicology and Toxicology of Chemicals
ECHA - European Chemicals Agency	
EL50 - Effective Loading fifty ELINCS - EHR-Lab Interoperability and	Connectivity Specification
ENCS - Japanese Existing and New C	
ERC - Environmental Release Categor	
EUSES - European Union System for	•
EWC - European Waste Code	
GHS - Globally Harmonized System of	
ARC - International Agency for Resea ATA - International Air Transport Asso	
C50 - Inhibitory Concentration fifty IL5	
MDG - International Maritime Dangero	
ECSC - Chinese Chemicals Inventory	
OELV - Indicative Occupational Expos	
P346 - Institute of Petroleum test met DMSO-extractables	nod N° 346 for the determination of polycyclic aromatics
KECI - Korea Existing Chemicals Inver	tony
Koc - Organic Carbon/Water Partition	
_C50 - Lethal Concentration fifty	
_D50 - Lethal Dose fifty per cent.	
_L/EL/IL - Lethal Loading/Effective Loa _L50 - Lethal Loading fifty	ading/Inhibitory Loading

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# CirculenRenew C14 LD2420K

Version 1.0

Revision Date 09/15/2021

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SDS No.: BE43065

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Gen. Variant: SDS AT

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 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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according to Regulation (EC) No. 1907/2006

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### Disclaimer

The Trade Name referenced in section 1 is a trademark owned or used by the LyondellBasell family of companies.

### 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 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