	((+) 18816996168	
SAFETY DATA SHEET	Р	Ponciplastics.com	lvoodollbacoll
according to Regulation (EC) No. 190			lyondellbasell
CirculenRenew C14 HP6	40J		Gen. Variant: SDS_AT
Version 1.0 Revision Date (5/2022 SDS No.: BE43062
1. Identification of the substance/m	ivturo	e and of the company/und	lertaking
1.1 Product identifier	ixtuic	e and of the company/and	acriating .
	Circ	ulan Danaw, C14 LID640 L	
Trade name : Synonyms :		ropene, homopolymer, PP	
Substance name :	Poly	ypropylene	
Substance No. : Chemical characterization :)3-07-0 ypropylene Homopolymer	
	,		
1.2 Relevant identified uses of the			-
Identified uses :		nufacture of plastic articles lother conversion process.	by injection molding, extrusion
Prohibited uses :	devid Appl	A Class III medical devices; ices; Health Canada class I plications involving permane -sustaining medical applicat	IV Medical Devices; nt implantation into the body;
1.3 Details of the supplier of the sat	fety d	data sheet	
Company Basell Sales & Marketing Company Delftseplein 27E 3013 AA Rotterdam Netherlands	B.V.	Registration numb	ber Telephone 31 (0) 10 275 55 00
E-mail address : Responsible/issuing person	produc	ict.safety@lyb.com	
1.4 Emergency telephone number			
Basell Sales & Marketing Company	B.V.		+32 3 575 1235
<u>Poison Center:</u> Gesundheid Österreich GMBH AT: +43 1 406 43 43 24 hours all days			
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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.

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

3. Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No.	Classification (REGULATION (EC) No 1272/2008)	<u>Weight %</u>
Polypropylene	9003-07-0		> 99.5 %

Contains: Additives and stabilizers

4. First aid measures

4.1 Description of first-aid measures

General advice	: Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid.
lf inhaled	 Remove person to fresh air. If signs/symptoms continue, get medical attention. In case of excessive inhalation of fumes that may be
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	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 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.
I.2 Most important symptoms an	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.
I.3 Indication of any immediate n	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.
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Version 1.0

media

fighting

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lvondellbasell Gen. Variant: SDS AT CirculenRenew C14 HP640J Revision Date 09/15/2021 Print Date 01/05/2022 SDS No.: BE43062 : LARGE FIRES: Use water spray hose nozzles from a safe location. Unsuitable extinguishing : None known. 5.2 Special hazards arising from the substance or mixture Specific hazards during fire : Keep away from heat and sources of ignition. In case of fire hazardous decomposition products may be produced such as: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). : The formation of hydrocarbons and aldehydes are possible in the initial stages of a fire (especially in between 400 C and 700 C) 5.3 Advice for firefighters Special protective equipment : Wear approved positive pressure self-contained breathing for fire-fighters apparatus and firefighter protective clothing. Further information : Combustible particulate solid, will decompose under fire conditions. Calorific Value: 8000 - 11000 kcal/kg Fight fire from safe distance with hose lines or monitor nozzles.

Heat from fire may melt, decompose polymer, and generate flammable vapors. Move containers from fire area if it can be done without risk.

Evacuate immediately in the event of opening of storage container pressure relief devices or discoloration of container. Always stay away from tanks engulfed in fire.

Do not attempt to get on top of storage containers involved in fire. Cool storage containers with large volumes of water even

after fire is out.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Equip responders with proper protection. Creates dangerous slipping hazard on any hard smooth

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according to Regulation (EC) No. 1907/2006

CirculenRenew C14 HP	640J Gen. Variant: SDS_AT
Version 1.0 Revision Date	09/15/2021 Print Date 01/05/2022 SDS No.: BE4306
	surface. Equip emergency responders with proper personal protective equipment (PPE) Avoid generating dust. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Potential combustible dust hazard. Polymer particles create slipping hazard on hard smooth surfaces.
3.2 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	 On land, sweep/shovel into suitable disposal containers or vacuum using equipment which avoids ignition risk. On water, material is insoluble; collect and contain as any solid. All recovered material should be packaged, labeled, transported and disposed of or reclaimed in conformance with applicable laws and regulations and in conformance with good engineering practices. Reclaim where possible.
7. Handling and storage	
7.1 Precautions for safe handling	
Advice on safe handling	 Material is in a pellet form. If converted to small particles during further processing, handling, or by other means, may form combustible dust concentrations in air. Avoid dust accumulation in enclosed space. Avoid generating dust; fine dust suspended in air and in the presence of an ignition source is a potential dust explosion hazard. Static discharge (spark), or other ignition sources, in high dust environments may ignite the dust and result in a dust explosion Electrostatic charge may build during conveying or handling. Equipment handling polymer should be conductive and grounded (earthed) and bonded. Metal containers involved in the transfer of this material
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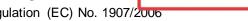
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according to Regulation (EC) No. 1907/2006

CirculenRene	w C14 HP64	0J		Gen. Variar	nt: SDS_AT	
	Revision Date 09		Print Date 01	/05/2022	SDS No.: BE43062	
Version 1.0		should be gr All electrical codes and re combustible After handlin water. When bringir	ounded and bond equipment shoul egulatory requirer dusts. g, always wash l ng the material to		icable electric andling with soap and eratures vapors	
Fire-fighting class		section 10. Polymer will	burn but does no	ot easily ignite.		
7.2 Conditions for sa	fe storage, inclu	ıding anv in	compatibilities			
Requirements for a areas and contain	storage : ners	Store in a dr Use good ho and handling should be us Store away f oxidizing age Keep contair	y location. busekeeping prac . Process enclos sed to avoid exce from excessive h ents. her closed to prev	etices during stora sures and adequat essive dust accum eat and away from vent contamination e build up of elect	e ventilation ulation. n strong n.	
7.3 Specific end use(7.3 Specific end use(s) : See Section 1.2.					
8. Exposure controls 8.1 Control paramete Ingredients with Occupational Ex	workplace cont		ers			
Components	CAS-No.	Туре	Limit Value	Basis Revision Date	Additional Information	
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CirculenRene	w C14 HP640)J		Gen. Variar	nt: SDS_AT
Version 1.0	Revision Date 09/2	15/2021	Print Date 01	/05/2022	SDS No.: BE43062
Materials that can be formed when handling this product: Non- specified (inert or nuisance) dust Materials that can		TWA	10 mg/m3 inhalable 3 mg/m3	US (ACGIH) 2005 US (ACGIH)	
be formed when handling this product: Non- specified (inert or			respirable	2005	

Consult local authorities for acceptable exposure limits.

8.2 Exposure controls

nuisance) dust

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
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(+) 18816996168 Ponciplastics.com lvondellbasell according to Regulation (EC) No. 1907/2006 Gen. Variant: SDS AT CirculenRenew C14 HP640J Revision Date 09/15/2021 Version 1.0 Print Date 01/05/2022 SDS No.: BE43062 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. 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 controls General advice : See section 6. 9. Physical and chemical properties 9.1 Information on basic physical and chemical properties Appearance : pellets solid : Translucent to white Color 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

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CirculenRenew C14 HP640JGen. Variant: SDS_ATVersion 1.0Revision Date 09/15/2021Print Date 01/05/2022SDS No.: BE43062				
Version 1.0 Revision Da	te 09/15/2021 Print Dat	e 01/05/2022 SDS No.: BE43062		
Decomposition temperature	: not determined			
Melting point/range	: 50 - 170 °C			
Boiling point/boiling range	: Not applicable.			
Vapor pressure	: Not applicable.			
Density	: <1 g/cm3			
Water solubility	: Insoluble.			
Partition coefficient: n- octanol/water	: No Data Available.			
Viscosity, dynamic	: Not applicable.			
Relative vapor density	: Not applicable.			
Evaporation rate	: Not applicable.			
Explosive properties	: No Data Available.			
9.2 Other information				
Other information	: No additional information	available.		
10. Stability and reactivity				
10.1 Reactivity				
No known reactivity hazards.				
10.2 Chemical stability				
Stable under normal conditions.				
10.3 Possibility of hazardous re	actions			
Hazardous reactions	: Will not occur.			
10.4 Conditions to avoid				
Conditions to avoid	: Avoid contact with strong open flame.	g oxidizers, excessive heat, sparks or		
10.5 Incompatible materials				
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SAFETY DATA SHEET	(+) 18816996168 Ponciplastics.com
according to Regulation (EC) No. 1	
CirculenRenew C14 HP	640J Gen. Variant: SDS_AT
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Materials to avoid	: Material may be softened by some hydrocarbons.
10.6 Hazardous decomposition p	
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 toxicological	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
Germ cell mutagenicity	: Not classified
Reproductive toxicity	
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Ponciplastics.com SAFETY DATA SHEET lyondellbasell according to Regulation (EC) No. 1907/2006 Gen. Variant: SDS AT CirculenRenew C14 HP640J Version 1.0 Revision Date 09/15/2021 Print Date 01/05/2022 SDS No.: BE43062 Effects on fertility / : Not classified Effects on or via lactation Effects on Development : Not classified Target Organ Systemic Toxicant - Single exposure : The substance or mixture is not classified as specific target organ toxicant, single exposure. Target Organ Systemic Toxicant - 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 : Not classified hazard Long-term (chronic) : Not classified aquatic hazard 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 Mobility : no data available 12.5 Results of PBT and vPvB assessment 11 / 16

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SAFETY DATA SHEET	1907/2006 Iyondellbase	ᆀ		
according to Regulation (EC) No.	1907/2006 Iyondenbage			
CirculenRenew C14 H				
Version 1.0 Revision Da	e 09/15/2021 Print Date 01/05/2022 SDS No.: BE43	3062		
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	 Ecotoxicity is expected to be minimal based on the low water solubility of polymers. No data available on this product. However, birds, fish and other wildlife may eat pellets which may obstruct their intestinal tracts. 			
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				
15. Regulatory information				
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture				
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REACh status

If the product has been purchased from any company of the LyondellBasell group of companies registered in the European Union, we confirm that all substances in this preparation have been registered under REACh, in accordance with the deadlines set forth in REACh. (Regulation (EU) No. 1907/2006)

Other international regulations

Global Inventory Status

The ingredients of this product are compliant with the following chemical inventory requirements or exemptions.

*Additional Explanatory Status Statements follow the table, as necessary.

Country/Region Inventory		Status Description	
Australia	AICS	Not Compliant	
Canada	DSL	Not Compliant	
China	IECSC	Not Compliant	
Europe	REACH	See REACH Compliance Statement	
Japan	ENCS	Not Compliant	
Korea	KECI	Not Compliant	
New Zealand	NZIoC	Not Compliant	
Philippines	PICCS	Not Compliant	
United States of America	TSCA	Not Compliant	
Taiwan	TCSCA	Not Compliant	

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

15.2 Chemical safety assessment

No information available.

16. OTHER INFORMATION

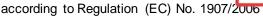
Material safety datasheet sections which have been updated:

First Edition Abbreviations and Acronyms

ACGIH - American Conference of Governmental Industrial Hygienists

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ACGIH_BEIs - American Conference of Governmental Industrial Hygienists_Biological Exposure Indices ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road AICS - Australian Inventory of Chemical Substances ASTM - American Society for Testing and Materials **BEL - Biological Exposure Limits** BTEX - Benzene, Toluene, Ethylbenzene, Xylenes CAS - Chemical Abstracts Service CEFIC - European Chemical Industry Council CLP - Classification Packaging and Labelling COC - Cleveland Open-Cup CS - Consumer Scenario DIN - Deutsches Institut für Normung DN(M)EL - Derived No (Minimal) Effect Level DSL - Canada Domestic Substance List EC - European Commission EC50 - Median Effective Concentration ECETOC - European Center on Ecotoxicology and Toxicology of Chemicals ECHA - European Chemicals Agency EL50 - Effective Loading fifty ELINCS - EHR-Lab Interoperability and Connectivity Specification ENCS - Japanese Existing and New Chemical Substances Inventory ERC - Environmental Release Category EUSES - European Union System for the Evaluation of Substances EWC - European Waste Code GHS - Globally Harmonized System of Classification and Labelling of Ch IARC - International Agency for Research on Cancer IATA - International Air Transport Association IC50 - Inhibitory Concentration fifty IL50 = Inhibitory Level fifty IMDG - International Maritime Dangerous Goods **IECSC** - Chinese Chemicals Inventory **IOELV - Indicative Occupational Exposure Limit Values** IP346 - Institute of Petroleum test method N° 346 for the determination of polycyclic aromatics **DMSO-extractables KECI - Korea Existing Chemicals Inventory** Koc - Organic Carbon/Water Partition Coefficient LC50 - Lethal Concentration fifty LD50 - Lethal Dose fifty per cent. LL/EL/IL - Lethal Loading/Effective Loading/Inhibitory Loading LL50 - Lethal Loading fifty MAK Commission - Permanent Senate Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area MARPOL - International Convention for the Prevention of Pollution from Ships No. - Number NOEC/NOEL - No Observed Effect Concentration / No Observed Effect Level NZIOC - New Zealand Inventory of Chemicals OE_HPV - Occupational Exposure - High Production Volume 14 / 16



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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.

Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

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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

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SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006		lyona	dellba	Isell		
CirculenRenew C14 HP640J				Gen. Variant: SDS_AT		
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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