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SAFETY DATA S according to Regulation			lyondellbasell
Circulen 2420F	Plus		Gen. Variant: SDS_GB
Version 1.1 R	evision Date 11/06/201	9 Print Date 12	/20/2019 SDS No.: BE16549
<ol> <li>Identification of the</li> <li>I.1 Product identifier</li> <li>Trade name</li> <li>Synonyms</li> <li>Substance name</li> <li>Substance No.</li> <li>Chemical characteriza</li> <li>I.2 Relevant identified</li> <li>Identified uses</li> </ol>	: Circuler : Ethene, : Polyeth : 9002-88 ation : Polyeth d uses of the substanc : Manufa	n 2420F Plus , homopolymer, PE ylene 3-4 ylene Homopolymer <b>e or mixture and us</b>	
Prohibited uses	: FDA Cl devices Applica	ass III medical devices ; Health Canada clas	nent implantation into the body;
1.3 Details of the supp	olier of the safety data	sheet	
<b>Company</b> Basell Sales & Marke Delftseplein 27E 3013 AA Rotterdam Netherlands	eting Company B.V.	Registration nur NA	nber Telephone 31 (0) 10 275 55 00
E-mail address Responsible/issuing p		afety@lyb.com	
1.4 Emergency teleph	one number		
Basell Sales & Marke	ting Company B.V.		+32 3 575 1235
Poison Center: National Poisons Info UK: +44 131 242 138 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.

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.



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If inhaled	<ul> <li>Remove person to fresh air. If signs/symptoms continue, get medical attention.</li> <li>In case of excessive inhalation of fumes that may be generated during heating of this material, move the person to fresh air.</li> <li>Obtain medical attention.</li> <li>Keep person warm, if necessary give Cardio-Pulmonary Resuscitation (CPR)</li> </ul>
In case of skin contact	<ul> <li>If molten material contacts the skin, immediately flush with large amounts of water to cool the affected tissue and polymer.</li> <li>Do not attempt to peel polymer from skin as this will remove the skin.</li> <li>Obtain immediate emergency medical attention if burn is deep or extensive.</li> </ul>
In case of eye contact	: Flush eyes thoroughly with water for several minutes and seek medical attention if discomfort persists.
	<ul> <li>In case of eye contact with molten polymer: Continuously flush eye(s) with cool running water for at least 15 minutes.</li> <li>Beyond flushing, DO NOT attempt to remove the material adherent to the eye(s).</li> <li>Immediately seek medical attention.</li> </ul>
If swallowed	: Adverse health effects due to ingestion are not anticipated.
4.2 Most important symptoms a	nd 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	medical attention and special treatment needed
Treatment	: Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.
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#### 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. Unsuitable extinguishing : None known. media 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 fighting produced such as: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). 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.

SAFETY DATA SHEET according to Regulation (EC) No. 19 Circulen 2420F Plus Version 1.1 Revision Date		Gen. Variant: SDS_GB 2/20/2019 SDS No.: BE16548
6. Accidental release measures		
6.1 Personal precautions, protectiv	e equipment and emergency	/ procedures
Personal precautions	equipment (PPE) Avoid generating dust.	hazard on any hard smooth s with proper personal protective e air (i.e., clearing dust surfaces azard.
	: May Contain trace amounts of oxidation, aldehydes and a	of light hydrocarbons, compounds acids
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	solid. All recovered material should transported and disposed of	ich avoids ignition risk. le; collect and contain as any d 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	: Material is in a pellet form. If converted to small particles handling, or by other means, concentrations in air.	
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#### lyondellbasell according to Regulation (EC) No. 1907/2006 Gen. Variant: SDS GB **Circulen 2420F Plus** Print Date 12/20/2019 Version 1.1 Revision Date 11/06/2019 SDS No.: BE16549 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 should be grounded and bonded. All electrical equipment should conform to applicable electric codes and regulatory requirements for areas handling combustible dusts. After handling, always wash hands thoroughly with soap and water. When bringing the material to processing temperatures vapors may develop may condense in the exhaust ventilation. See section 10. Fire-fighting class : Polymer will burn but does not easily ignite. 7.2 Conditions for safe storage, including any incompatibilities Requirements for storage : Store in a dry location. areas and containers Use good housekeeping practices during storage, transferring and handling. Process enclosures and adequate ventilation should be used to avoid excessive dust accumulation. Store away from excessive heat and away from strong oxidizing agents. Keep container closed to prevent contamination. Take measures to prevent the build up of electrostatic charge. : Maximum allowed storage temperatures of 50°C for maximum 60 days. Avoid direct insufflation of air. Avoid direct sunlight and contact with sources of heat. Store either in the closed original containers in well ventilated area or in silos with vents. 7.3 Specific end use(s) : See Section 1.2. 6/17



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#### 8. Exposure controls/personal protection

#### 8.1 Control parameters

#### Ingredients with workplace control parameters

#### **Occupational Exposure Limits**

Components	CAS-No.	Туре	Limit Value	Basis Revision Date	Additional Information
Materials that can be formed when handling this product: Non- specified (inert or nuisance) dust		TWA	10 mg/m3 inhalable	US (ACGIH) 2005	
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 proces

: Use process enclosures, local exhaust ventilation, or other

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## lyondellbasell Gen. Variant: SDS GB **Circulen 2420F Plus** Print Date 12/20/2019 Version 1.1 Revision Date 11/06/2019 SDS No.: BE16549 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. Selection of appropriate personal protective equipment should Hygiene measures 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. Color : Translucent to white

Odor : Slight.



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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.
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.
2 Other information	

# 9.2 Other information

Other information

: No additional information available.

open f         10.5 Incompatible materials         Materials to avoid       : Material         10.6 Hazardous decomposition products         Hazardous decomposition       : Not exproducts         Thermal decomposition       : Note: trace a alcoho         11. Toxicological information         11.1 Information on toxicological effects         Acute toxicity         Acute oral toxicity       : Not cl         Acute inhalation toxicity       : Not cl         Acute dermal toxicity       : Not cl	) 18816996168 nciplastics.com
10. Stability and reactivity         10.1 Reactivity         No known reactivity hazards.         10.2 Chemical stability         Stable under normal conditions.         10.3 Possibility of hazardous reactions         Hazardous reactions         Hazardous reactions         Hazardous reactions         Conditions to avoid         Conditions to avoid         Conditions to avoid         Incompatible materials         Materials to avoid         Hazardous decomposition products         Hazardous decomposition         Hazardous decomposition         Thermal decomposition         11. Toxicological information         11.1 Information on toxicological effects         Acute toxicity         Acute oral toxicity         Not cl         Acute inhalation toxicity         Not cl         Acute dermal toxicity	Gen. Variant: SDS_GB
<ul> <li>10.1 Reactivity No known reactivity hazards.</li> <li>10.2 Chemical stability Stable under normal conditions.</li> <li>10.3 Possibility of hazardous reactions Hazardous reactions Hazardous reactions Conditions to avoid Hazardous decomposition products Hazardous decomposition Hazardous Hazardous decomposition Hazardous Hazardous decomposition Hazardous Hazar</li></ul>	19 Print Date 12/20/2019 SDS No.: BE16549
10.6 Hazardous decomposition products         Hazardous decomposition       : Not exproducts         Thermal decomposition       : Note: trace is alcoho         11. Toxicological information         11.1 Information on toxicological effects         Acute toxicity         Acute oral toxicity         Acute inhalation toxicity         Xeute dermal toxicity         Xeute dermal toxicity	contact with strong oxidizers, excessive heat, sparks or
Hazardous decomposition       : Not exproducts         Thermal decomposition       : Note: trace a alcoho         11. Toxicological information       : Information         11.1 Information on toxicological effects       Acute toxicity         Acute oral toxicity       : Not cl         Acute inhalation toxicity       : Not cl         Acute dermal toxicity       : Not cl	al may be softened by some hydrocarbons.
11.1 Information on toxicological effects         Acute toxicity         Acute oral toxicity         Acute inhalation toxicity         Contermal toxicity	cpected to decompose under normal conditions. Carbon monoxide, olefinic and paraffinic compounds, amounts of organic acids, ketones, aldehydes and ols may be formed.
11.1 Information on toxicological effects         Acute toxicity         Acute oral toxicity         Acute inhalation toxicity         Cute dermal toxicity         Cute dermal toxicity	
Not cl         Acute inhalation toxicity       : Not cl         Acute dermal toxicity       : Not cl	
Acute dermal toxicity : Not cl	assified
	assified
Skin corrosion/irritation : Not a	assified
	skin irritant.
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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	
Effects on fertility / Effects on or via lactation	: Not classified : Not classified
Effects on Development	
Target Organ Systemic Tox	
	: The substance or mixture is not classified as specific target organ toxicant, single exposure.
Target Organ Systemic Tox	cicant - 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	
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hazard	Not classified Not classified	
12.2 Persistence and degradability		
Biodegradability :	Not expected to be biodegrad	dable.
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 asses	sment	
Result :		ains no components considered cumulative and toxic (PBT) or accumulative (vPvB).
12.6 Other adverse effects		
Environmental fate and : pathways	This material is not volatile a	and insoluble in water.
12.7 Other information		
Additional ecological : information	solubility of polymers.	e minimal based on the low water oduct. However, birds, fish and which may obstruct their
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13. Disposal conside	erations			
13.1 Waste treatmen	t methods			
Product	tra ap er	ansported and plicable laws	d disposed of a sand regulation actices. Reclai	d be packaged, labeled, or reclaimed in conformance with ns and in conformance with good im where possible.
14. Transport inform	ation			
Not regulated for trans	sport			
15. Regulatory inform	nation			
15.1 Safety, health a	nd environmental	regulations/	legislation sp	ecific for the substance or mixture
REACH Annex 2	XIV			
				ACH regulation 1907/2006/EC or in product in quantities >= 0.1 % w/w.
REACH Annex 2	XVII			
None of the substances currently listed in Annex XIV of the REACH regulation 1907/2006/EC or in the SVHC Candidate List are known to be incorporated in this product in quantities >= 0.1 % w/w.				
<b>REACH</b> - Candidate List of Substances of Very High Concern for Authorisation				
This product does not contain substances of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 57).				
REACh status				
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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:

Revised Section(s): 15 16 Abbreviations and Acronyms

ACGIH - American Conference of Governmental Industrial Hygienists 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



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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 OECD - Organization for Economic Co-operation and Development **OEL - Occupational Exposure Limit** PBT - Persistent, Bio accumulative and Toxic 15 / 17



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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 a period (.) as the decimal marker. For example, 1,234.56 mg/kg = 1.234,56 mg/kg.



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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