

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006



**Circulen 2420F Plus**

Gen. Variant: SDS\_GB

Version 1.1

Revision Date 11/06/2019

Print Date 12/20/2019

SDS No.: BE16549

**1. Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier**

Trade name : Circulen 2420F Plus  
 Synonyms : Ethene, homopolymer, PE  
 Substance name : Polyethylene  
 Substance No. : 9002-88-4  
 Chemical characterization : Polyethylene Homopolymer

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Identified uses : Manufacture of plastic articles by injection molding, extrusion or other conversion process.  
 Prohibited uses : FDA Class III medical devices; European class III medical devices; Health Canada class IV Medical Devices; Applications involving permanent implantation into the body; Life-sustaining medical applications

**1.3 Details of the supplier of the safety data sheet**

<b>Company</b>	<b>Registration number</b>	<b>Telephone</b>
Basell Sales & Marketing Company B.V. Delftseplein 27E 3013 AA Rotterdam Netherlands	NA	31 (0) 10 275 55 00
E-mail address	: product.safety@lyb.com	
Responsible/issuing person		

**1.4 Emergency telephone number**

Basell Sales & Marketing Company B.V. +32 3 575 1235

**Poison Center:**  
 National Poisons Information Service  
 UK: +44 131 242 1383  
 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.	Weight %	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 : Remove person to fresh air. If signs/symptoms continue, get medical attention.  
 In case of excessive inhalation of fumes that may be generated during heating of this material, move the person to fresh air.  
 Obtain medical attention.  
 Keep person warm, if necessary give Cardio-Pulmonary 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.

**4.2 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.

**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, CO<sub>2</sub>, or water spray.

: LARGE FIRES:  
 Use water spray hose nozzles from a safe location.

Unsuitable extinguishing media : None known.

**5.2 Special hazards arising from the substance or mixture**

Specific hazards during fire fighting : 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).

**5.3 Advice for firefighters**

Special protective equipment for fire-fighters : Wear approved positive pressure self-contained breathing 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.

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**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 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.
- : May Contain trace amounts of light hydrocarbons, compounds of oxidation, aldehydes and acids

**6.2 Environmental precautions**

- Environmental precautions : Do not flush into surface water or sanitary sewer system.

**6.3 Methods and materials for containment 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.

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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 areas and containers : Store in a dry location.  
 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.

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**8. Exposure controls/personal protection**

**8.1 Control parameters**

**Ingredients with workplace control parameters**

**Occupational Exposure Limits**

Components	CAS-No.	Type	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 process enclosures, local exhaust ventilation, or other

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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.
- 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.
- 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.

**9.2 Other information**

- Other information : No additional information available.

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**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 : 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 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 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.

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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 / : 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**

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**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**

**Mobility** : no data available

**12.5 Results of PBT and vPvB assessment**

**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.

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**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**

**REACH Annex XIV**

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  $\geq 0.1$  % w/w.

**REACH Annex 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  $\geq 0.1$  % w/w.

**REACH - 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](mailto: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\_HP - Occupational Exposure - High Production Volume  
 OECD - Organization for Economic Co-operation and Development  
 OEL - Occupational Exposure Limit  
 PBT - Persistent, Bio accumulative and Toxic

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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

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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.

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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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.

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Language Translations

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**End of Material Safety Data Sheet**