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SAFETY DATA S	-		lastics.com	lyon	dellbasell
Hifax TYC 459	P S41634			Gen. Va	riant: SDS_AT
Version 1.2 F	Revision Date 04/	06/2020	Print Date 01	/06/2022	SDS No.: BE16472
1. Identification of the	e substance/mixt	ture and of	the company/u	indertaking	
1.1 Product identifier					
Trade name Synonyms Substance name	: F		59P S41634 Compounded poly d polyolefin	ymer	
1.2 Relevant identifie	d uses of the su	bstance or	mixture and us	æs advised aga	ainst
Identified uses			of plastic article version process.		nolding, extrusion
Prohibited uses		devices; Hea Applications	II medical device alth Canada clas involving perma ng medical applie	s IV Medical De	evices;
1.3 Details of the sup	plier of the safet	-			
Company Basell Sales & Marko Delftseplein 27E 3013 AA Rotterdam Netherlands	eting Company B		Registration nu		elephone 1 (0) 10 275 55 00
E-mail address Responsible/issuing		oduct.safety	@lyb.com		
1.4 Emergency teleph	none number				
Basell Sales & Marke	eting Company B	.V.		+3	2 3 575 1235
Poison Center: Gesundheid Österrei AT: +43 1 406 43 43 24 hours all days	ch GMBH				
2. Hazards identificat	ion				
2.1 Classification of t	he substance or	mixture			
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according to Regulation (EC) No. 1907/2006

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Classification (REGULATION (EC) No 1272/2008)

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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)	Weight %
Proprietary blend of polyolefinic polymers	Mixture	Not Classified	50.0 - 80.0 %

Contains: Additives, stabilizers and fillers

4. First aid measures

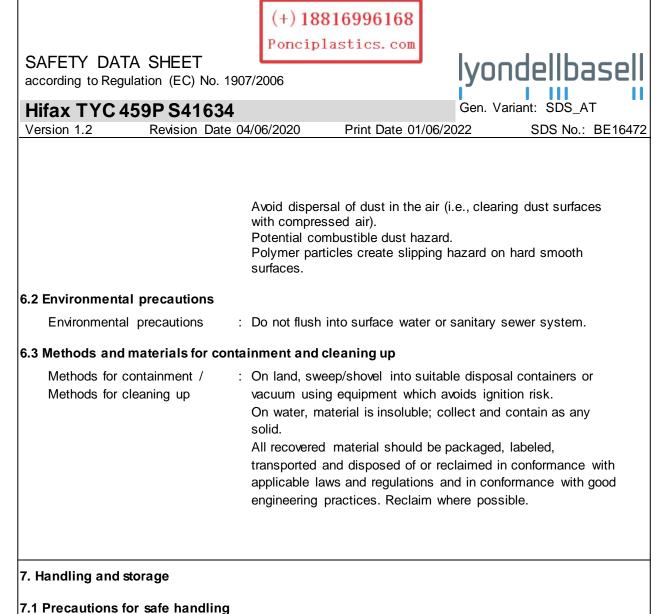
4.1 Description of first-aid measures

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 generated during heating of this material, move the person to fresh air.
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In case of skin contact	 Obtain medical attention. Keep person warm, if necessary give Cardio-Pulmonary Resuscitation (CPR) If molten material contacts the skin, immediately flush with large amounts of water to cool the affected tissue and polymer. Do not attempt to peel polymer from skin as this will remove the skin. Obtain immediate emergency medical attention if burn is deep
In case of eye contact	or extensive. : 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.
2 Most important symptoms ar	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.
.3 Indication of any immediate i	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.
. Fire-fighting measures	
1 Extinguishing media	
Suitable extinguishing media	: SMALL FIRE: Use dry chemical, CO2, or water spray.
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SAFETY DATA SHEET according to Regulation (EC) No. 1	907/2006 Iyondellbasel
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	: LARGE FIRES: Use water spray hose nozzles from a safe location.
Unsuitable extinguishing media 5.2 Special hazards arising from t	: None known. he 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.
6. Accidental release measures	
	ve 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.
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	5
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 should be grounded and bonded. All electrical equipment should conform to applicable electric codes and regulatory requirements for areas handling
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	combustible dusts. After handling, always wash water. When bringing the material to	p processing temp	eratures vapors
	may develop may condense section 10.	in the exhaust ven	tilation. See
Fire-fighting class :	Polymer will burn but does no	ot easily ignite.	
7.2 Conditions for safe storage, incl	luding any incompatibilities		
Requirements for storage : areas and containers	Store in a dry location. Use good housekeeping prace and handling. Process enclose should be used to avoid exce Store away from excessive hoxidizing agents. Keep container closed to pre Take measures to prevent the	sures and adequation essive dust accumine eat and away from vent contamination	e ventilation ulation. strong
7.3 Specific end use(s)			
:	See Section 1.2.		
8. Exposure controls/personal prote	ection		
8.1 Control parameters			
Ingredients with workplace con	trol parameters		
Occupational Exposure Limits			
Components CAS-No.	Type Limit Value	Basis	Additional

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					



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Materials that can be formed when	TWA	3 mg/m3 respirable	US (ACGIH) 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 :	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Use appropriate respiratory protection where atmosphere exceeds recommended limits. Where workers could be exposed to dust concentrations above the exposure limit they must use appropriate certified respirators.
Hand protection :	Wear gloves that provide thermal protection where there is a potential for contact with heated material.
Eye and face protection :	Dust service goggles should be worn to prevent mechanical injury or other irritation to eyes due to airborne particles which may result from handling this product.
Skin and body protection :	Wear suitable protective clothing.
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Hygiene measures	be based on an evaluation of of the protective equipment re- performed, conditions presen hazards and/or potential haza during use. Use good personal hygiene p	nt, duration of use, and the ards that may be encountered practices. Irinking, smoking, or using toilet
Environmental exposure con	trols	
General advice	: See section 6.	
9. Physical and chemical properti 9.1 Information on basic physical		
Appearance	: Pellets.	
Color	: Metallic silver.	
Odor	: Slight.	
Flash point	: No Data Available.	
Lower explosion limit	: The minimum explosive conc varies according to particle si	centration (MEC) for polymer dust ize distribution.
Upper explosion limit	: Not applicable.	
Flammability (solid, gas)	: Polymer will burn but does no	ot easily ignite.
Oxidizing properties	: Not considered an oxidizing a	agent.
Autoignition temperature	: > 300 °C	
Decomposition temperature	: not determined	
Melting point/range	: 50 - 170 °C	
Boiling point/boiling range	: Not applicable.	
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Vapor pressure Density	: Not applicable. : >1 g/cm3
Water solubility	: Insoluble.
Partition coefficient: n-	: No Data Available.
octanol/water Viscosity, dynamic	: Not applicable.
Relative vapor density	: Not applicable.
Evaporation rate	: Not applicable.
Explosive properties	: No Data Available.
Other information	: No additional information available.
0. Stability and reactivity	
0.1 Reactivity	
No known reactivity hazards	5.
0.2 Chemical stability	
Stable under normal conditi	
0.3 Possibility of hazardous r Hazardous reactions	: Will not occur.
0.4 Conditions to avoid	
Conditions to avoid	: Avoid contact with strong oxidizers, excessive heat, sparks or open flame.
0.5 Incompatible materials	
Materials to avoid	: Material may be softened by some hydrocarbons.
10.6 Hazardous decomposition	n products
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Hifax TYC 459P S41634 Gen. Variant: SDS_AT Version 1.2 Revision Date 04/06/2020 Print Date 01/06/2022 SDS No.: Hazardous decomposition products : Not expected to decompose under normal conditions. products SDS No.: Thermal decomposition : Not expected to decompose under normal conditions. products SDS No.: Thermal decomposition : Note: Carbon monoxide, olefinic and paraffinic compounds trace amounts of organic acids, ketones, aldehydes and alcohols may be formed. 11. Toxicological information Information 11.1 Information on toxicological effects Acute toxicity Not classified Acute oral toxicity : Not classified Acute dermal toxicity : Not classified Skin corrosion/irritation : Not a skin irritant. Serious eye damage/eye : Not an eye irritant. Mechanical irritation is possible.	sell			
Hazardous decomposition : Not expected to decompose under normal conditions. products : Note: Carbon monoxide, olefinic and paraffinic compounds trace amounts of organic acids, ketones, aldehydes and alcohols may be formed. 11. Toxicological information : Note: Carbon monoxide, olefinic and paraffinic compounds trace amounts of organic acids, ketones, aldehydes and alcohols may be formed. 11. Toxicological information : Not classified Acute toxicity : Not classified Acute inhalation toxicity : Not classified Acute dermal toxicity : Not classified Skin corrosion/irritation : Not a skin irritant. Serious eye damage/eye : Not an eye irritant.	r "			
products 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 : Not an eye irritant.	BE16472			
11.1 Information on toxicological effects Acute toxicity Acute oral toxicity : Not classified Acute inhalation toxicity : Not classified Acute dermal toxicity : Skin corrosion/irritation : Not a skin irritant. Serious eye damage/eye : Not an eye irritant.	5,			
Acute toxicity : Acute oral toxicity : Not classified Acute inhalation toxicity : Acute dermal toxicity : Not classified Skin corrosion/irritation : Not a skin irritant. Serious eye damage/eye : Not an eye irritant.				
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 : Not an eye irritant.				
Not classified Acute inhalation toxicity : Not classified Acute dermal toxicity : Not classified Skin corrosion/irritation : Not a skin irritant. Serious eye damage/eye : Not an eye irritant.				
Acute dermal toxicity : Not classified Skin corrosion/irritation : Not a skin irritant. Serious eye damage/eye : Not an eye irritant.				
Skin corrosion/irritation : Not a skin irritant. Serious eye damage/eye : Not an eye irritant.				
Serious eye damage/eye : Not an eye irritant.				
Serious eye damage/eye : Not an eye irritant.				
Respiratory or skin : Not classified sensitization				
Chronic toxicity				
Carcinogenicity : Not classified				
Germ cell mutagenicity : Not classified				
Reproductive toxicity				
Effects on fertility / : Not classified Effects on or via lactation				
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Effects on Development	: Not classified			
Target Organ Systemic Toxic	cant - Single exposure			
	: The substance or mixture is n organ toxicant, single exposur			
Target Organ Systemic Toxic	cant - Repeated exposure			
	: The substance or mixture is n organ toxicant, repeated expo			
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 degradabili	itv			
		-61-		
Biodegradability	: Not expected to be biodegrada	adie.		
12.3 Bioaccumulative potential				
Bioaccumulation	: This material is not expected t	to bioaccumulate.		
12.4 Mobility in soil				
Mobility	: no data available			
12.5 Populto of PPT and vPvP op	an com o né			
12.5 Results of PBT and vPvB assessment				
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Result	: This substance/mixture conta to be either persistent, bioacc very persistent and very bioac	cumulative and toxic (PBT) or			
12.6 Other adverse effects					
Environmental fate and pathways	: This material is not volatile ar	nd insoluble in water.			
12.7 Other information					
Additional ecological information	solubility of polymers.	minimal based on the low water duct. However, birds, fish and which may obstruct their			
13. Disposal considerations					
13.1 Waste treatment methods					
Product		or reclaimed in conformance with ns and in conformance with good			
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	Compliant
Canada	DSL	Compliant
China	IECSC	Compliant
Europe	REACH	See REACH Compliance Statement
Japan	ENCS	Compliant
Korea	KECI	Not Compliant
New Zealand	NZIoC	Compliant
Philippines	PICCS	Not 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 Abbreviations and Acronyms



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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 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 14 / 16



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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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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