SAFETY	DATA	SHEET	

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plastics.com	lyondellbasell
	Gen. Variant: SDS_AT

according to Regulation (EC) No. 1907/2006

Hifax CA 1110 G4 LS/4 1740

Version 1.5

Revision Date 03/12/2021

Print Date 02/25/2022

SDS No.: BE7891

1. Identification of the substance/	mixture and	of the company/undertaki	ng
1.1 Product identifier			
Trade name Synonyms Substance name	: Polyolefin,	1110 G4 LS/4 1740 , Compounded polymer ded polyolefin	
1.2 Relevant identified uses of the	e substance	or mixture and uses advis	ed against
Identified uses		re of plastic articles by inject onversion process.	ction molding, extrusion
Prohibited uses	devices; H Applicatio	s III medical devices; Europe Health Canada class IV Medi ns involving permanent impl ning medical applications	ical Devices;
1.3 Details of the supplier of the s	afety data sł	neet	
Company Basell Sales & Marketing Compar Delftseplein 27E 3013 AA Rotterdam Netherlands	ny B.V.	Registration number NA	Telephone 31 (0) 10 275 55 00
E-mail address : Responsible/issuing person	product.safe	ety@lyb.com	
1.4 Emergency telephone numbe	r		
Basell Sales & Marketing Compar	ny B.V.		+32 3 575 1235
Poison Center: Gesundheid Österreich GMBH AT: +43 1 406 43 43 24 hours all days			
2. Hazards identification			
2.1 Classification of the substance	e or mixture		
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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>
Proprietary blend of polyolefinic polymers	Mixture	Not Classified	80.0 - 100.0 %

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.
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
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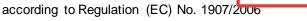
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	Resuscitatio	on (CPR)	
In case of skin contact	large amour polymer. Do not atter the skin.	aterial contacts the skin, immed hts of water to cool the affected mpt to peel polymer from skin a ediate emergency medical atte e.	tissue and as this will remove
In case of eye contact	•	thoroughly with water for sever ention if discomfort persists.	al minutes and seek
	Continuousl 15 minutes. Beyond flus adherent to	hing, DO NOT attempt to remo	g water for at least
If swallowed	: Adverse he	alth effects due to ingestion are	e not anticipated.
4.2 Most important symptoms a	nd effects, both	acute and delayed	
Symptoms		f process fumes and vapors m and throat and coughing.	ay cause soreness
Hazards		t with the eyes can lead to me mer may cause thermal burns.	
4.3 Indication of any immediate	medical attenti	on and special treatment nee	ded
Treatment		of overexposure should be dire and the clinical condition of the	
5. Fire-fighting measures			
5.1 Extinguishing media			
Suitable extinguishing media	: SMALL FIR Use dry che	E: emical, CO2, or water spray.	
	: LARGE FIR Use water s	ES: spray hose nozzles from a safe	location.
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Unsuitable extinguishing media 5.2 Special hazards arising from	: None known. the substance of	r mixture	
Specific hazards during fire fighting	: Keep away fro In case of fire produced suc	om heat and so hazardous dec h as: xide, carbon dio	urces of ignition. omposition products may be oxide and unburned
5.3 Advice for firefighters			
Special protective equipment for fire-fighters		d positive press d firefighter prote	sure self-contained breathing ective clothing.
Further information	conditions. Calorific Value Fight fire from nozzles.	e: 8000 - 11000 safe distance v	, will decompose under fire kcal/kg vith hose lines or monitor ompose polymer, and generate

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.

Do not attempt to get on top of storage containers involved in

Cool storage containers with large volumes of water even

Always stay away from tanks engulfed in fire.

5.3 Advice for firefighters

2	Accidental release measures
0.	Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

fire.

flammable vapors.

after fire is out.

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
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	surfaces.
6.2 Environmental precautions	
Environmental precautions	: Do not flush into surface water or sanitary sewer system.
6.3 Methods and materials for co	ntainment 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 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
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	Se	ection 10.			
Fire-fighting clas	s : Po	olymer will burn b	ut does not eas	ily ignite.	

7.2 Conditions for safe storage, including any incompatibilities

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.	Requirements for storage areas and containers	Store away from excessive heat and away from strong oxidizing agents.
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7.3 Specific end use(s)

: See Section 1.2.

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	Inomation
Materials that can be formed when handling this product: Non- specified (inert or nuisance) dust		TWA	3 mg/m3 respirable	US (ACGIH) 2005	

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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.
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
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	facilities.					
	Take off contaminated clothing and wash before reuse.					
Environmental exposure controls						
General advice	: See section 6.					
9. Physical and chemical propert						
9.1 Information on basic physical						
Appearance	: Pellets.					
Color	: black					
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					
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.					
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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 conditio	ons.					
10.3 Possibility of hazardous re	eactions					
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	: Not expected to decompose under normal conditions.					
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 toxicologic	al effects					
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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	<u>_</u>				
	Mechanical initiation is possible	5.				
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					
Effects on Development	: Not classified					
Target Organ Systemic Toxi	cant - Single exposure					
	: The substance or mixture is no organ toxicant, single exposure					
Target Organ Systemic Toxi	cant - Repeated exposure					
	: The substance or mixture is no organ toxicant, repeated expose					
	organ toxicant, repeated expos	סעוק.				
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Acceleration become							
Aspiration hazard	: Not applicable.						
12. Ecological information							
12.1 Ecotoxicology Assessment							
Short-term (acute) aquatic hazard	: Not classified						
Long-term (chronic) aquatic hazard	: Not classified						
12.2 Persistence and degradabi	lity						
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 a	ssessment						
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	: Ecotoxicity is expected to be minimal based on the low water						
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	olubility of polymers.	duct. However, birds, fish and			
c	ther wildlife may eat pellets				
ir I	ntestinal tracts.				
13. Disposal considerations					
13.1 Waste treatment methods		he performed labeled			
ti		or reclaimed in conformance with			
	pplicable laws and regulation ngineering practices. Reclain	ns and in conformance with good m where possible.			
	Recycle if possible.	•			
44. Transmort information					
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 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.					
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Country/Region	Inventory	Status Description
Australia	AICS	Not Compliant
Canada	DSL	Not 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

*This product contains one or more substances having volume restrictions. Contact Product Safety for additional information.

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

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

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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 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 14 / 16

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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

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