SAFETY	DATA	SHEET

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according to Regulation (EC) No. 1907/2006

Hifax TYC 459P C12886

Version 1.0

Revision Date 12/02/2016

Print Date 04/13/2017

SDS No.: BE9792

1. Identification of the substan	co/mixturo a	and of the company/undertak	ing
1.1 Product identifier			ing
Trade name Synonyms Substance name	: Polyol	TYC 459P C12886 lefin, Compounded polymer oounded polyolefin	
1.2 Relevant identified uses of	the substan	nce or mixture and uses advis	ed against
Identified uses		facture of plastic articles by inje er conversion process.	ction molding, extrusion
Prohibited uses	housir and m	autical parts; Train transportation ngs; Seat belt systems and mechanisms; Pedals (brake , ga ns and mechanisms; Medical a	chanisms; Brake systems is , clutch); Steering
1.3 Details of the supplier of the supplier of the supplier of the supplier of the supplication of the sup	ne safety dat	a sheet	
Company Basell Sales & Marketing Com Delftseplein 27E 3013 AA Rotterdam Netherlands	npany B.V.	Registration number NA	Telephone 31 (0) 10 275 55 00
E-mail address Responsible/issuing person	: product.	.safety@lyb.com	
1.4 Emergency telephone			
Basell Sales & Marketing Com	ipany B.V.		+32 3 575 1235
Poison Center: National Poisons Information S UK: +44 131 242 1383 24 hours all days	Service		
2. Hazards identification			
2.1 Classification of the substa	ance or mixt	ure	
Classification (REGULATI	ION (EC) No	1272/2008)	
Not a hazardous substance	or mixture ad	ccording to Regulation (EC) No	1272/2008.

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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

Ingredients

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.
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
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	the skin. Obtain immed or extensive.	liate emergency medical att	ention if burn is deep
In case of eye contact	medical atten	oroughly with water for seven tion if discomfort persists.	
	Continuously 15 minutes. Beyond flushi adherent to th	flush eye(s) with cool runnir ng, DO NOT attempt to rem	ng water for at least
If swallowed	: Adverse heal	th effects due to ingestion a	e not anticipated.
4.2 Most important symptoms ar	nd effects, both a	cute and delayed	
Symptoms		process fumes and vapors n nd throat and coughing.	ay cause soreness
Hazards		with the eyes can lead to me er may cause thermal burns	
	Monor polym	-	
4.3 Indication of any immediate		and special treatment nee	ded
4.3 Indication of any immediate	medical attention : Treatment of	and special treatment nee overexposure should be dire d the clinical condition of the	ected at the control of
-	medical attention : Treatment of	overexposure should be dire	ected at the control of
Treatment	medical attention : Treatment of	overexposure should be dire	ected at the control of
Treatment 5. Fire-fighting measures	medical attention : Treatment of symptoms an : SMALL FIRE	overexposure should be dire d the clinical condition of the	ected at the control of
Treatment 5. Fire-fighting measures 5.1 Extinguishing media	medical attention Treatment of symptoms an SMALL FIRE Use dry chem LARGE FIRE	overexposure should be dire d the clinical condition of the nical, CO2, or water spray.	ected at the control of e patient.
Treatment 5. Fire-fighting measures 5.1 Extinguishing media	medical attention Treatment of symptoms an SMALL FIRE Use dry chem LARGE FIRE	overexposure should be dire d the clinical condition of the nical, CO2, or water spray. S:	ected at the control of e patient.
Treatment 5. Fire-fighting measures 5.1 Extinguishing media Suitable extinguishing media Unsuitable extinguishing media 5.2 Special hazards arising from	 medical attention Treatment of symptoms an SMALL FIRE Use dry chem LARGE FIRE Use water spi None known. 	overexposure should be dire d the clinical condition of the nical, CO2, or water spray. S: ray hose nozzles from a safe	ected at the control of e patient.
Treatment 5. Fire-fighting measures 5.1 Extinguishing media Suitable extinguishing media Unsuitable extinguishing media	 medical attention Treatment of symptoms an SMALL FIRE Use dry chem LARGE FIRE Use water spi None known. the substance of ire produced succession 	overexposure should be dire d the clinical condition of the nical, CO2, or water spray. S: ray hose nozzles from a safe mixture om heat and sources of ignit hazardous decomposition p h as: xide, carbon dioxide and un	ected at the control of e patient. e location. tion.
Treatment 5. Fire-fighting measures 5.1 Extinguishing media Suitable extinguishing media Unsuitable extinguishing media 5.2 Special hazards arising from Specific hazards during fire	 medical attention Treatment of symptoms an SMALL FIRE Use dry chem LARGE FIRE Use water spi None known. the substance of ire produced suc Carbon mono 	overexposure should be dire d the clinical condition of the nical, CO2, or water spray. S: ray hose nozzles from a safe mixture om heat and sources of ignit hazardous decomposition p h as: xide, carbon dioxide and un	ected at the control of e patient. e location. tion.

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Special protective equipment for fire-fighters	: Wear approved positive pres apparatus and firefighter prot	sure self-contained breathing tective clothing.
Further information	flammable vapors. Move containers from fire are Evacuate immediately in the container pressure relief devi Always stay away from tanks Do not attempt to get on top fire.) kcal/kg with hose lines or monitor ompose polymer, and generate ea if it can be done without risk. event of opening of storage ices or discoloration of container.
5. Accidental release measures 5.1 Personal precautions, prote	tive equipment and emergency	procedures
	 Equip responders with prope Creates dangerous slipping h surface. Equip emergency responders equipment (PPE) Avoid generating dust. 	r protection. hazard on any hard smooth s with proper personal protective air (i.e., clearing dust surfaces
5.1 Personal precautions, prote	 Equip responders with prope Creates dangerous slipping h surface. Equip emergency responders equipment (PPE) Avoid generating dust. Avoid dispersal of dust in the with compressed air). Potential combustible dust has Polymer particles create slipping 	r protection. hazard on any hard smooth s with proper personal protective air (i.e., clearing dust surfaces
5.1 Personal precautions, protections Personal precautions	 Equip responders with prope Creates dangerous slipping h surface. Equip emergency responders equipment (PPE) Avoid generating dust. Avoid dispersal of dust in the with compressed air). Potential combustible dust has Polymer particles create slipping 	r protection. hazard on any hard smooth s with proper personal protective air (i.e., clearing dust surfaces azard. bing hazard on hard smooth
5.1 Personal precautions, protections Personal precautions 5.2 Environmental precautions	 Equip responders with prope Creates dangerous slipping h surface. Equip emergency responders equipment (PPE) Avoid generating dust. Avoid dispersal of dust in the with compressed air). Potential combustible dust ha Polymer particles create slipp surfaces. Do not flush into surface wate 	r protection. hazard on any hard smooth s with proper personal protective air (i.e., clearing dust surfaces azard. bing hazard on hard smooth
 5.1 Personal precautions, protection Personal precautions 5.2 Environmental precautions Environmental precautions 	 Equip responders with prope Creates dangerous slipping h surface. Equip emergency responders equipment (PPE) Avoid generating dust. Avoid dispersal of dust in the with compressed air). Potential combustible dust ha Polymer particles create slipp surfaces. Do not flush into surface wate ntainment and cleaning up On land, sweep/shovel into s vacuum using equipment wh On water, material is insoluble solid. All recovered material should transported and disposed of 	r protection. hazard on any hard smooth is with proper personal protective e air (i.e., clearing dust surfaces azard. bing hazard on hard smooth er or sanitary sewer system. suitable disposal containers or ich avoids ignition risk. le; collect and contain as any

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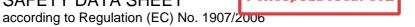
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Revision Date 12/02/2016 engineering practices. Reclaim where possible. 7. Handling and storage 7.1 Precautions for safe handling Advice on safe handling : Material is in a pellet form. If converted to small particles during further processing, handling, 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 arounded 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. Use good housekeeping practices during storage, transferring areas and containers 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. 7.3 Specific end use(s) : See Section 1.2. 5/13

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8. Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

Occupational Exposure Limits

Ingredients	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 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.
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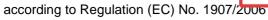


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	exceeds red Where work	riate respiratory protection whe commended limits. ers could be exposed to dust o xposure limit they must use ap	concentrations
Hand protection		s that provide thermal protectio contact with heated material.	n where there is a
Eye and face protection	injury or oth	e goggles should be worn to pro er irritation to eyes due to airbo rom handling this product.	
Skin and body protection	: Wear suitab	le protective clothing.	
Hygiene measures	be based or of the prote- performed, hazards and during use.	appropriate personal protectiv n an evaluation of the performa ctive equipment relative to the t conditions present, duration of d/or potential hazards that may ersonal hygiene practices.	nce characteristics task(s) to be use, and the
	Wash hand facilities.	s before eating, drinking, smok	
Environmental exposure o	Wash hand facilities. Take off cor	s before eating, drinking, smok	
Environmental exposure c General advice	Wash hand facilities. Take off cor	s before eating, drinking, smok	
-	Wash hand facilities. Take off con controls : See section	s before eating, drinking, smok ntaminated clothing and wash b 6.	
General advice Physical and chemical properation on basic physical Appearance	Wash hand facilities. Take off con controls : See section erties cal and chemical : Pellets.	s before eating, drinking, smok ntaminated clothing and wash b 6.	
General advice Physical and chemical properation on basic physical Appearance Color	Wash hand facilities. Take off con controls : See section erties cal and chemical : Pellets. : Black	s before eating, drinking, smok ntaminated clothing and wash b 6. properties	
General advice Physical and chemical properation on basic physical Appearance Color Odor	Wash hand: facilities. Take off con controls : See section erties cal and chemical : Pellets. : Black : Slight. : No Data Av : The minimu	s before eating, drinking, smok ntaminated clothing and wash b 6. properties	EC) for polymer dust
General advice Physical and chemical properation Information on basic physic Appearance Color Odor Flash point	Wash hand: facilities. Take off con controls : See section erties cal and chemical : Pellets. : Black : Slight. : No Data Av : The minimu	s before eating, drinking, smok ntaminated clothing and wash b 6. properties ailable. m explosive concentration (ME rding to particle size distribution	EC) for polymer dust
General advice Physical and chemical properation on basic physical Information on basic physic Appearance Color Odor Flash point Lower explosion limit	Wash hand: facilities. Take off con controls : See section erties cal and chemical : Pellets. : Black : Slight. : No Data Av : The minimu varies acco : Not applical	s before eating, drinking, smok ntaminated clothing and wash b 6. properties ailable. m explosive concentration (ME rding to particle size distribution	C) for polymer dust



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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.
10. Stability and reactivity	
10.1 Reactivity	
No known reactivity hazards.	
10.2 Chemical stability	
Stable under normal condition	IS.
10.3 Possibility of hazardous re	actions
Hazardous reactions	: Will not occur.
10.4 Conditions to avoid	
Conditions to avoid	: Avoid contact with strong oxidizers, excessive heat, sparks or open flame.
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10.5 Incompatible materials			
Materials to avoid	: Materi	al may be softened by	some hydrocarbons.
10.6 Hazardous decomposition p	roducts		
Hazardous decomposition	: Not ex	pected to decompose	under normal conditions.
products Thermal decomposition	trace a		finic and paraffinic compounds, ds, ketones, aldehydes and
11. Toxicological information			
11.1 Information on toxicologica	effects		
Acute toxicity	Giroute		
	_		
Acute oral toxicity	: Not cla	assified	
Acute inhalation toxicity	: Not cla	assified	
Acute dermal toxicity	: Not cla	assified	
Skin corrosion/irritation	: Not a s	skin irritant.	
Serious eye damage/eye irritation		eye irritant. nical irritation is possil	ble.
Respiratory or skin sensitization	: Not cla	assified	
Chronic toxicity			
Carcinogenicity	: Not cla	assified	
Germ cell mutagenicity	: Not cla	assified	
Reproductive toxicity			
Effects on fertility / Effects on or via lactation	: Not cla	assified	
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Effects on Development	: Not classified
Target Organ Systemic Toxic	
	: The substance or mixture is not classified as specific target organ toxicant, single exposure.
Target Organ Systemic Toxic	ant - 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 Toxicity	
Ecotoxicology Assessment	
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified
12.2 Persistence and degradabilit	/
Biodegradability	: Not expected to be biodegradable.
12.3 Bioaccumulative potential	
Bioaccumulation	: This material is not expected to bioaccumulate.
12.4 Mobility in soil	
Additional advice Environmental fate and pathways	: This material is not volatile and insoluble in water.
12.5 Results of PBT and vPvB ass	
	s no components considered to be either persistent, bioaccumulative ent and very bioaccumulative (vPvB).
12.6 Other adverse effects	
Additional ecological information	: Ecotoxicity is expected to be minimal based on the low water solubility of polymers.
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Ū	Regulation (EC) No. 1907	/2006			
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		No data available on th other wildlife may eat p intestinal tracts.		. However, birds, fish and ch may obstruct their	
13. Disposal c	considerations				
3.1 Waste tre	eatment methods				
Product			sed of or re gulations a	claimed in conformance with and in conformance with good	
lot regulated f	information for transport y information				
Not regulated f	for transport y information	al regulations/legislat	ion specif	ic for the substance or mixtur	
Not regulated f	or transport y information ealth and environmenta	al regulations/legislat	ion specif	ic for the substance or mixtur	
Not regulated f 5. Regulator 5.1 Safety, h REACh s If the p registe pre-reg procee	or transport y information ealth and environmenta status product has been purchas ired in the European Unic gistered or, where require	sed from any company on, we confirm that all s ed under REACh, regis	of the Lyor substances tered, and	ic for the substance or mixtur ndellBasell group of companies in this preparation have been that we have the intention to set forth in REACh. (Regulation	
Not regulated f 15. Regulatory 15.1 Safety, h REACh s If the p registe pre-reg procee (EU) N	for transport y information ealth and environmenta status product has been purchas gistered or, where require ad with their registration in	sed from any company on, we confirm that all s ed under REACh, regis	of the Lyor substances tered, and	ndellBasell group of companies in this preparation have been that we have the intention to	
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lot regulated f 5. Regulatory 5.1 Safety, h REACh s If the p registe pre-reg procee (EU) N Other inte Global In The ingre	for transport y information ealth and environmenta status broduct has been purchas broduct has been purchas bred in the European Unic gistered or, where require id with their registration in lo. 1907/2006) ernational regulations ventory Status dients of this product are ns. *Additional Explanatory Country/Region	sed from any company on, we confirm that all s ed under REACh, regis n accordance with the o compliant with the follo Status Statements fol	of the Lyor substances tered, and deadlines s owing chen low the tab	ndellBasell group of companies in this preparation have been that we have the intention to set forth in REACh. (Regulation nical inventory requirements or le, as necessary. Description	
Not regulated f 5. Regulatory 5.1 Safety, h REACh s If the p registe pre-reg procee (EU) N Other inte Global In The ingre	for transport y information ealth and environmenta ealth and environmenta	sed from any company on, we confirm that all s ed under REACh, regis n accordance with the of compliant with the follo Status Statements fol Inventory AICS	of the Lyor substances tered, and deadlines s owing chen low the tab Status Complia	ndellBasell group of companies is in this preparation have been that we have the intention to set forth in REACh. (Regulation nical inventory requirements or le, as necessary. Description ant	
Not regulated f 5. Regulatory 5.1 Safety, h REACh s If the p registe pre-reg procee (EU) N Other inte Global In The ingre	for transport y information ealth and environmenta ealth and environmenta	sed from any company on, we confirm that all s ad under REACh, regis in accordance with the compliant with the follow status Statements fol <u>Inventory</u> AICS DSL	of the Lyor substances tered, and deadlines s owing chen low the tab Status Complia	ndellBasell group of companies is in this preparation have been that we have the intention to set forth in REACh. (Regulation nical inventory requirements or le, as necessary. <u>Description</u> ant ant	
Not regulated f 5. Regulator 5.1 Safety , h REACh s If the p registe pre-reg procee (EU) N Other inte Global In The ingree	for transport y information ealth and environmenta ealth and environmenta red in the European Unic gistered or, where require ed with their registration in lo. 1907/2006) ernational regulations ventory Status dients of this product are ns. *Additional Explanatory <u>Country/Region</u> Australia Canada China	sed from any company on, we confirm that all s ed under REACh, regis in accordance with the of compliant with the follow status Statements fol <u>Inventory</u> AICS DSL IECSC	of the Lyor substances tered, and deadlines s owing chen low the tab Status Complia Complia	ndellBasell group of companies is in this preparation have been that we have the intention to set forth in REACh. (Regulation nical inventory requirements or le, as necessary. Description ant ant ant	
Not regulated f 5. Regulator 5.1 Safety , h REACh s If the p registe pre-reg procee (EU) N Other inte Global In The ingree	for transport y information ealth and environmenta ealth and environmenta	sed from any company on, we confirm that all s ad under REACh, regis in accordance with the compliant with the follow status Statements fol <u>Inventory</u> AICS DSL	of the Lyor substances tered, and deadlines s owing chen low the tab Status Complia Complia	ndellBasell group of companies is in this preparation have been that we have the intention to set forth in REACh. (Regulation nical inventory requirements or le, as necessary. <u>Description</u> ant ant	

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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: First Edition November 25 2016

Further information

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.

This document is generated for the purpose of distributing health, safety, and environmental data.

Information is correct to the best of our knowledge at the date of the SDS publication. It is not a specification sheet nor should any displayed data be construed as a specification. Before using a product sold by a company of the LyondellBasell family of companies, users should make their own independent determination that the product is suitable for the intended use and can be used safely and legally.

SELLER MAKES NO WARRANTY; EXPRESS OR IMPLIED (INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY WARRANTY) OTHER THAN AS SEPARATELY AGREED TO BY THE PARTIES IN A CONTRACT.

Users should review the applicable Safety Data Sheet before handling the product. This product(s) may not be used in the manufacture of any of the following, without prior written approval by Seller for each specific product and application:

(i) U.S. FDA Class I or II Medical Devices; Health Canada Class I, II or III Medical Devices; European Union Class I or II Medical Devices;

(ii) film, overwrap and/or product packaging that is considered a part or component of one of the aforementioned medical devices;

(iii) packaging in direct contact with a pharmaceutical active ingredient and/or dosage form that is intended for inhalation, injection, intravenous, nasal, ophthalmic (eye), digestive, or topical (skin) administration;

(iv) tobacco related products and applications, electronic cigarettes and similar devices.

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Disclaimer

The product(s) may not be used in:

(i) U.S. FDA Class III Medical Devices; Health Canada Class IV Medical Devices; European Class III Medical Devices;

(ii) applications involving permanent implantation into the body;

(iii) life-sustaining medical applications.

All references to U.S. FDA, Health Canada, and European Union regulations include another country's equivalent regulatory classification.

In addition to the above, LyondellBasell may further prohibit or restrict the use of its products in certain applications. For further information, please contact a LyondellBasell representative.

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. Adflex, Adstif, Adsyl, Akoafloor, Akoalit, Alastian, Alathon, Aquathene, Avant, Catalloy, Clyrell, Dexflex, Flexathene, Hifax, Histif, Hostacom, Hostalen, Indure, Integrate, Koattro, Lucalen, Luflexen, Lupolen, Metocene, Microthene, Moplen, Nexprene, Petrothene, Plexar, Pristene, Pro-Fax, Purell, Sequel, Softell, Starflex, Ultrathene, and Valtec are trademarks owned or used by the LyondellBasell family of companies.