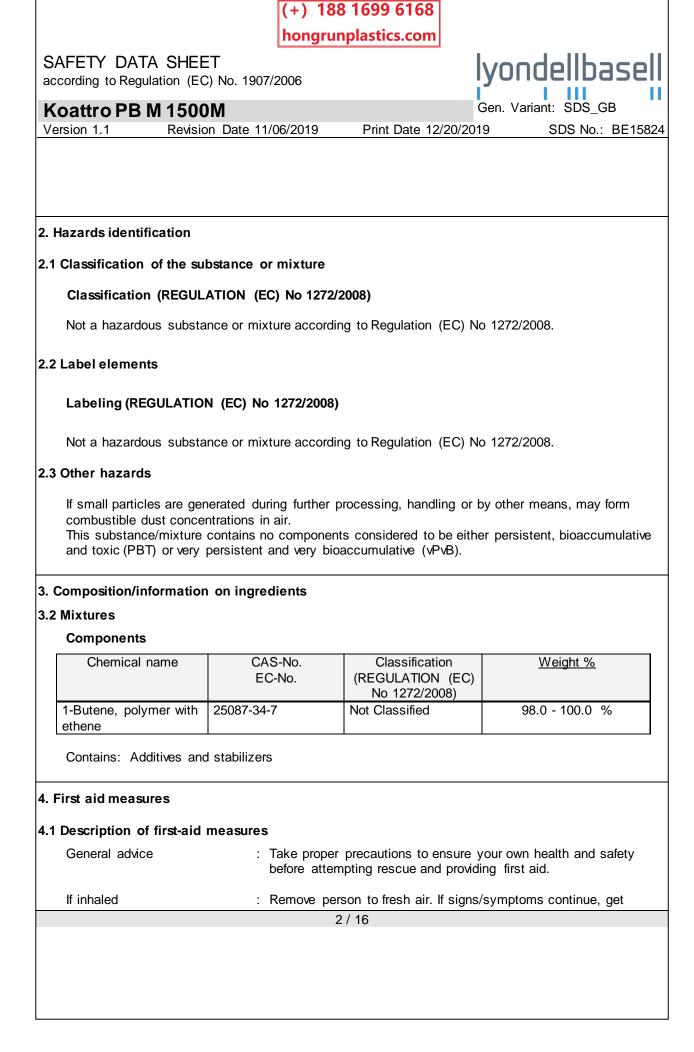
	(+)	188 1699 6168	
	hong	grunplastics.com	
SAFETY DATA SHEET according to Regulation (EC) N	No. 1907/2006		lyondellbasell
Koattro PB M 1500M			Gen. Variant: SDS_GB
	Date 11/06/2019	Print Date 12/	20/2019 SDS No.: BE15824
1. Identification of the substar 1.1 Product identifier	nce/mixture an	d of the company/ur	ndertaking
Trade name	: Koattro	PB M 1500M	
Synonyms	: Ethylene	e, polymer with 1-bute	ne, Ethene-Butene copolymer
Substance name		e, polymer with ethen	9
Substance No. Chemical characterization	: 25087-3	4-7 /lene copolymer	
	. Toryethy		
1.2 Relevant identified uses o	of the substance	e or mixture and use	s advised against
Identified uses		ture of plastic articles conversion process.	by injection molding, extrusion
Prohibited uses	devices; Applicat	Health Canada class	ent implantation into the body;
1.3 Details of the supplier of t	the safety data	sheet	
Company Basell Sales & Marketing Cor Delftseplein 27E 3013 AA Rotterdam Netherlands	npany B.V.	Registration num NA	Iber Telephone 31 (0) 10 275 55 00
E-mail address Responsible/issuing person	: product.sa	afety@lyb.com	
1.4 Emergency telephone nur	nber		
Basell Sales & Marketing Con	npany B.V.		+32 3 575 1235
Poison Center: National Poisons Information UK: +44 131 242 1383 24 hours all days	Service		
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SAFETY DATA according to Regula	-	907/2006		lyon	dellbasell
Koattro PB M					ant: SDS_GB
Version 1.1	Revision Date	11/06/2019	Print Date 12/20	/2019	SDS No.: BE15824
In case of skin	contact	 generated du fresh air. Obtain medic Keep person Resuscitation If molten mat large amount polymer. 	cessive inhalation of ring heating of this al attention. warm, if necessary	material, mov give Cardio-f kin, immediat he affected tis	e the person to Pulmonary ely flush with ssue and
		the skin. Obtain imme or extensive.	diate emergency m	nedical attentio	on if burn is deep
In case of eye of	contact	•	noroughly with wate ntion if discomfort p		ninutes and seek
		Continuously 15 minutes. Beyond flush adherent to tl	e contact with molto flush eye(s) with c ing, DO NOT atten he eye(s). seek medical attent	npt to remove	
If swallowed		: Adverse heal	th effects due to in	gestion are no	ot anticipated.
4.2 Most important	t symptoms and	l effects, both a	cute and delayed	l	
Symptoms			process fumes and nd throat and coug		cause soreness
Hazards			with the eyes can I her may cause them		nical irritation.
4.3 Indication of ar	ny immediate m	edical attentior	n and special treat	tment needeo	t
Treatment			overexposure shoud d the clinical condi		
5. Fire-fighting me	asures				
5.1 Extinguishing r	media				
		3	/ 16		

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SAFETY DATA SHEET according to Regulation (EC) No. 1	907/2006 lyondellbasell
Koattro PB M 1500M	Gen. Variant: SDS_GB
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Suitable extinguishing media	: SMALL FIRE: Use dry chemical, CO2, or water spray.
	: LARGE FIRES: Use water spray hose nozzles from a safe location.
Unsuitable extinguishing 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.
6. Accidental release measures	
6.1 Personal precautions, protect	ive equipment and emergency procedures
Personal precautions	: Equip responders with proper protection. Creates dangerous slipping hazard on any hard smooth surface.
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SAFETY DATA SHEET according to Regulation (EC) No. 190	7/2006	lyondellbasell
Koattro PB M 1500M		Gen. Variant: SDS_GB
Version 1.1 Revision Date 1	1/06/2019 Print Date 12/2	20/2019 SDS No.: BE15824
	Equip emergency responders equipment (PPE) Avoid generating dust. Avoid dispersal of dust in the a with compressed air). Potential combustible dust haz Polymer particles create slippi surfaces.	zard.
6.2 Environmental precautions		
Environmental precautions :	Do not flush into surface water	r or sanitary sewer system.
6.3 Methods and materials for conta	inment and cleaning up	
Methods for containment / : Methods for cleaning up		h avoids ignition risk. ; collect and contain as any be packaged, labeled, r reclaimed in conformance with s and in conformance with good
7. Handling and storage		
7.1 Precautions for safe handling		
Advice on safe handling :	Material is in a pellet form. If converted to small particles of handling, or by other means, r concentrations in air. Avoid dust accumulation in end Avoid generating dust; fine dus presence of an ignition source hazard. Static discharge (spark), or oth environments may ignite the d explosion Electrostatic charge may build Equipment handling polymer s grounded (earthed) and bonder Metal containers involved in the	may form combustible dust closed space. st suspended in air and in the is a potential dust explosion her ignition sources, in high dust lust and result in a dust during conveying or handling. should be conductive and ed.
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SAFETY DATA SH according to Regulation		/2006		lyond	ellbasell
Koattro PB M 15	00M			Gen. Varian	t: SDS_GB
Version 1.1 Rev	ision Date 11/	06/2019	Print Date 12	2/20/2019	SDS No.: BE15824
Fire-fighting class 7.2 Conditions for safe s Requirements for sto	: I storage, inclu	All electrica codes and r combustible After handlir water. When bringi may develop section 10. Polymer wil	egulatory require dusts. ng, always wash ng the material t may condense burn but does n ncompatibilities	Id conform to appli ments for areas hat hands thoroughly o processing tempo in the exhaust ven ot easily ignite.	andling with soap and eratures vapors
areas and containers		and handling should be u Store away oxidizing ag Keep contai	g. Process enclo sed to avoid exc from excessive h ents. ner closed to pre- ires to prevent th	ctices during storag sures and adequat essive dust accum neat and away from event contamination ne build up of electr	e ventilation ulation. a strong
8. Exposure controls/per 8.1 Control parameters Ingredients with wo Occupational Expos	orkplace contr sure Limits	ol parame			
Components	CAS-No.	Туре	Limit Value	Basis Revision Date	Additional Information
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SAFETY DATA according to Regula	A SHEET ation (EC) No. 1907/	2006		lyond	lellbasell
Koattro PB N	/I 1500M			Gen. Variar	nt: SDS_GB
Version 1.1	Revision Date 11/0	06/2019	Print Date 12/	/20/2019	SDS No.: BE15824
Materials that ca	- I I	TWA	10 mg/m2		1 1
be formed when handling this product: Non- specified (inert o nuisance) dust		IWA	10 mg/m3 inhalable	US (ACGIH) 2005	
Materials that ca be formed when handling this product: Non- specified (inert o nuisance) dust		TWA	3 mg/m3 respirable	US (ACGIH) 2005	
equipment use Engineering co exposures belo conformance, o Ensure that du equipment) are no leakage from	measures ommendations in inte d to handle this produ- ontrols, i.e. enclosed ow acceptable criteria other engineering cor st-handling systems e designed in a mann n the equipment).	uct. systems, sl a. When su ntrols such (such as ex	hould be used who ch controls are no as local exhaust chaust ducts, dust	enever feasible to t feasible, or suffi ventilation should t collectors, vesse	maintain cient to achieve full be used. Is, and processing
Respiratory pro	e r V li L V e V a	engineering ecommende When worke imit they mu Jse appropr exceeds rec Where work	controls to keep a ed exposure limit ers are facing con ust use appropriate iate respiratory p commended limits ers could be expo	centrations above e certified respira rotection where a	low the exposure tors. tmosphere entrations
Hand protection			that provide ther contact with heat	mal protection whe	here there is a
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SAFETY DATA SHEET according to Regulation (EC) No.	. 1907/2006	lyondellbasell
Koattro PB M 1500M		Gen. Variant: SDS_GB
Version 1.1 Revision Da	ate 11/06/2019 Print Date 12	2/20/2019 SDS No.: BE15824
Eye and face protection	: Dust service goggles should injury or other irritation to ever	be worn to prevent mechanical es due to airborne particles which
	may result from handling this	
Skin and body protection	: Wear suitable protective clot	hing.
Hygiene measures	be based on an evaluation of of the protective equipment r performed, conditions preser hazards and/or potential haz 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 co	ontrols	
General advice	: See section 6.	
9. Physical and chemical prope 9.1 Information on basic physic		
Appearance	: Pellets.	
Color	: Translucent to white	
Odor	: Slight.	
Flash point	: No Data Available.	
Lower explosion limit	: The minimum explosive conc varies according to particle s	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	agent.
Autoignition temperature	: > 300 °C	
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SAFETY DATA SHEET	1907/2006 Iyondellbase
according to Regulation (EC) No.	1907/2006 Iyondciibasc
Koattro PB M 1500M	Gen. Variant: SDS_GB
Version 1.1 Revision Da	te 11/06/2019 Print Date 12/20/2019 SDS No.: BE158
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.
0.2 Other information Other information	. No additional information available
Other Information	: No additional information available.
I0. Stability and reactivity	
I0.1 Reactivity	
No known reactivity hazards.	
10.2 Chemical stability	
Stable under normal condition	ns.
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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SAFETY DATA SHEET according to Regulation (EC) No.	1907/2006 Iyondellbas	sel	
Koattro PB M 1500M	Gen. Variant: SDS_GB		
Version 1.1 Revision Da	tte 11/06/2019 Print Date 12/20/2019 SDS No.: BE	<u>=1582</u>	
10.5 Incompatible materials			
Materials to avoid	: Material may be softened by some hydrocarbons.		
10.6 Hazardous decomposition	-		
Hazardous decomposition	: Not expected to decompose under normal conditions.		
Thermal decomposition	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 toxicologica Acute toxicity	al effects		
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.		
Respiratory or skin sensitization	: Not classified		
Chronic toxicity			
Carcinogenicity	: Not classified		
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SAFETY DATA SHEET according to Regulation (EC) No.	1907/2006			dellbasell
Koattro PB M 1500M				iant: SDS_GB
Version 1.1 Revision Dat	te 11/06/2019	Print Date 12/20)/2019	SDS No.: BE15824
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 Tox	icant - Single exp	osure		
	: The substance	e or mixture is not		specific target
	organ toxicant	, single exposure.		
Target Organ Systemic Tox	icant - Repeated e	exposure		
		e or mixture is not t, repeated exposit		specific target
Aspiration hazard	: Not applicable			
12. Ecological information				
12.1 Ecotoxicology Assessment				
Short-term (acute) aquatic	: Not classified			
hazard Long-term (chronic) aquatic hazard	: Not classified			
12.2 Persistence and degradabi	lity			
Biodegradability	: Not expected	to be biodegradab	le.	
12.3 Bioaccumulative potential				
Bioaccumulation	: This material i	s not expected to	bioaccumula	te.
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SAFETY DATA SHEET according to Regulation (EC)	
Koattro PB M 1500	
Version 1.1 Revision	Date 11/06/2019 Print Date 12/20/2019 SDS No.: BE15824
12.4 Mobility in soil	
Mobility	: no data available
12.5 Results of PBT and vPv	Bassessment
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.
13. Disposal considerations	
13.1 Waste treatment metho	ds
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	
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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 >= 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 >= 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

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)

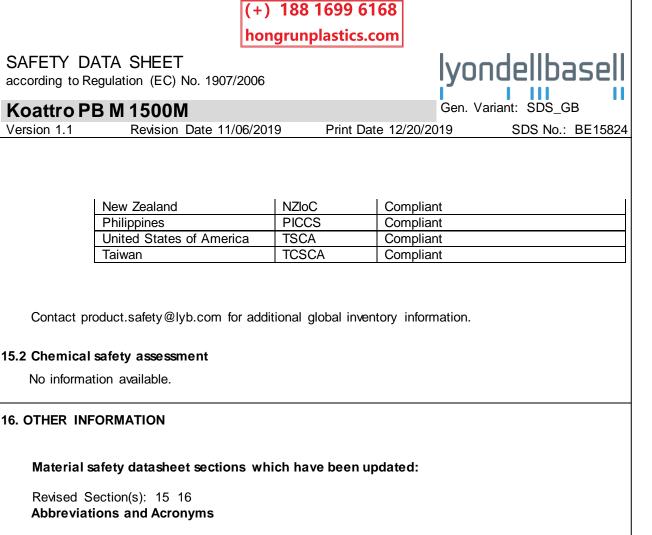
Other international regulations

Global Inventory Status

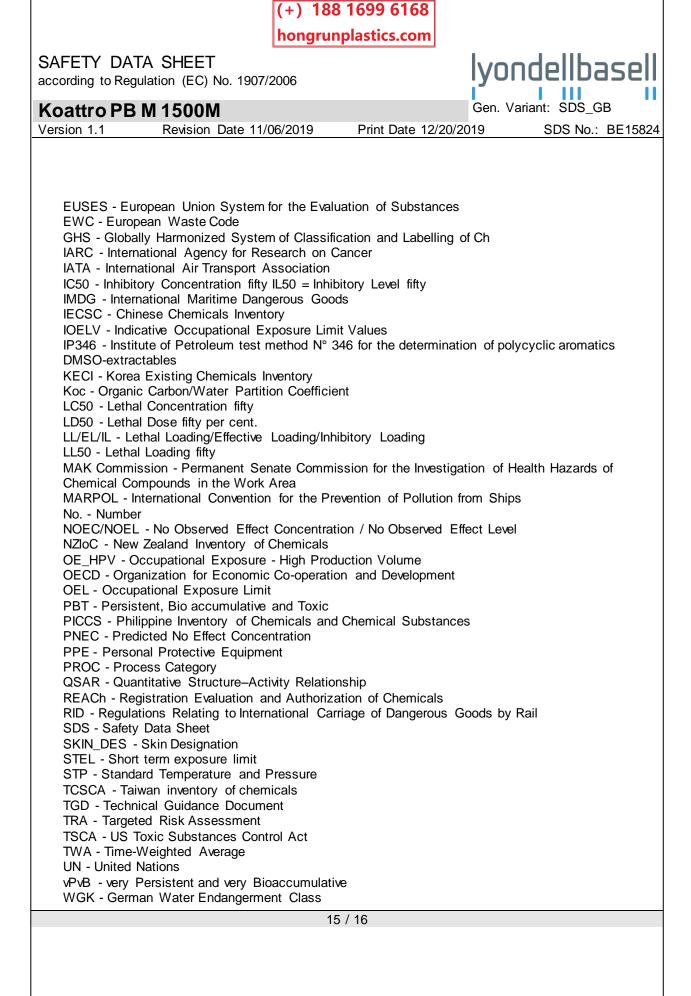
The ingredients of this product are compliant with the following chemical inventory requirements or exemptions.

*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	Compliant



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 14 / 16





SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Koattro PB M 1500M

Version 1.1

Revision Date 11/06/2019

Print Date 12/20/2019

SDS No.: BE15824

lvondellbasel

Gen. Variant: SDS GB

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.

In addition to any prohibitions of use specifically noted in this document, LyondellBasell may further prohibit or restrict the sale of its products into certain applications. For further information, please contact a LyondellBasell representative or visit the LyondellBasell website at: https://www.lyondellbasell.com/en/products-technology/product-safety-stewardship/ 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.

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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