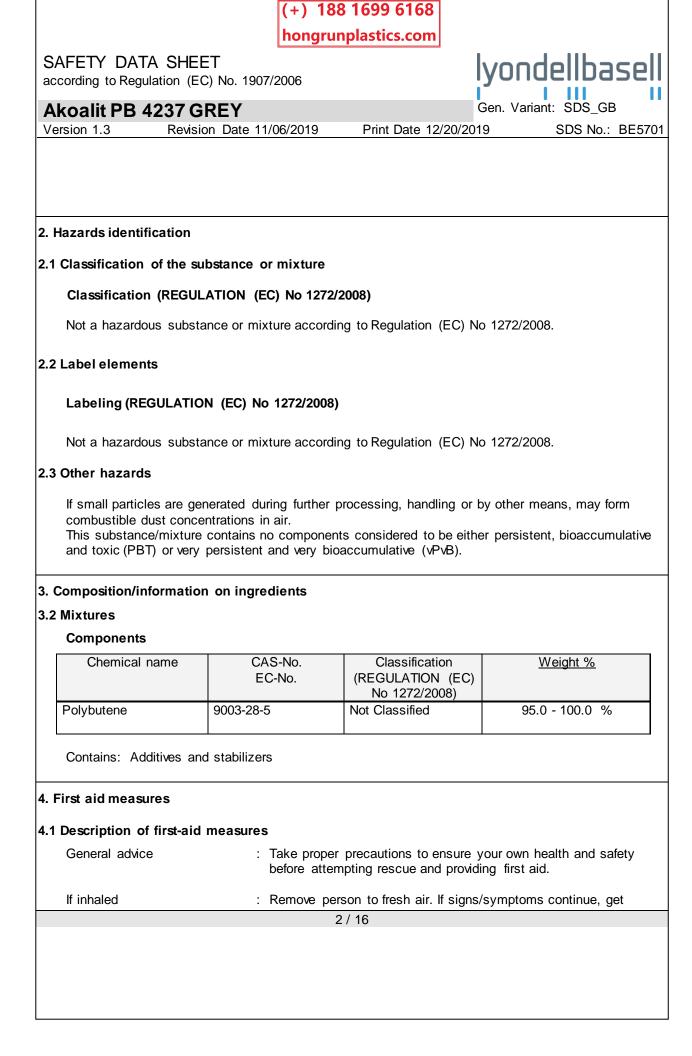
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SAFETY DATA SHEE according to Regulation (EC			lyondellbasell
Akoalit PB 4237 G			Gen. Variant: SDS_GB
Version 1.3 Revision	on Date 11/06/2019	Print Date 12/2	20/2019 SDS No.: BE5701
1. Identification of the subs	stance/mixture and	d of the company/unc	dertaking
Trade name	: Akoalit P	B 4237 GREY	
Synonyms		ne, 1-Butene Homopol	lymer, PB
Substance name Substance No.	: Polybute : 9003-28-	ne Homopolymer 5	
Chemical characterization	: Polybute	-	
1.2 Polovant identified use	a of the substance	or mixture and uses	advised against
1.2 Relevant identified use			•
Identified uses		conversion process.	by injection molding, extrusion
Prohibited uses	devices; Applicati	Health Canada class I	ent implantation into the body;
1.3 Details of the supplier	of the safety data s	sheet	
Company Basell Sales & Marketing Delftseplein 27E 3013 AA Rotterdam Netherlands	Company B.V.	Registration numb	ber Telephone 31 (0) 10 275 55 00
E-mail address Responsible/issuing perso		fety@lyb.com	
1.4 Emergency telephone	number		
Basell Sales & Marketing	Company B.V.		+32 3 575 1235
Poison Center: National Poisons Informati UK: +44 131 242 1383 24 hours all days	on Service		
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Akoalit PB 4237 GREY Gen. Variant: SDS_GB	SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006 Akoalit PB 4237 GREY Version 1.3 Revision Date 11/06/2019 Print Date 12/20/2 medical attention. In case of excessive inhalation of generated during heating of this in fresh air. Obtain medical attention. Keep person warm, if necessary of Resuscitation (CPR) In case of skin contact : If molten material contacts the sk large amounts of water to cool the polymer. Do not attempt to peel polymer from the skin. Obtain immediate emergency me or extensive. In case of eye contact : Flush eyes thoroughly with water medical attention if discomfort per in case of eye contact : Flush eyes thoroughly with water medical attention if discomfort per in case of eye contact : Adverse health effects due to inge 4.2 Most important symptoms and effects, both acute and delayed Symptoms : Inhalation of process fumes and v in the nose and throat and coughi Hazards : Dust contact with the eyes can lei Molten polymer may cause therm 4.3 Indication of any immediate medical attention and special treature Treatment : Treatment of overexposure should symptoms and the clinical condition 5. Fire-fighting measures 5.1 Extinguishing media	
Akoalit PB 4237 GREY Cen. Variant: SDS_GB Version 1.3 Revision Date 11/06/2019 Print Date 12/20/2019 SDS No.: BE570 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. No case of skin contact : If molten material contacts the skin, immediately flush with large amounts of water to cool the affected tissue and polymer. Do not attempt to peel polymer from skin as this will remove the skin. Obtain immediate emergency medical attention if burn is deep or extensive. In case of eye contact : Flush eyes thoroughly with water for several minutes and seek medical attention fi discomfort persists. In case of eye contact : Flush eyes thoroughly 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. 42 Most important symptoms and effects, both acute and delayed Symptoms 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. 43 Indication of any immediate medical attention of oprocess fumes and upors may cause soren	according to Regulation (EC) No. 1907/2006 Account PB 4237 GREY Version 1.3 Revision Date 11/06/2019 Print Date 12/20/2 medical attention. In case of excessive inhalation of generated during heating of this in fresh air. Obtain medical attention. Keep person warm, if necessary of Resuscitation (CPR) In case of skin contact In case of skin contact In case of skin contact In case of eye co	
Version 1.3 Revision Date 11/06/2019 Print Date 12/20/2019 SDS No.: BE570 medical attention. In case of excessive inhalation of fumes that may be generated during heating of this material, move the person to fresh air. Obtain medical attention. Keep person warm, if necessary give Cardio-Pulmonary Resuscitation (CPR) In case of skin contact : If molten material contacts the skin, immediately flush with large amounts of water to cool the affected tissue and polymer. Do not attempt to peel polymer from skin as this will remove the skin. Obtain immediate emergency medical attention if burn is deep or extensive. In case of eye contact : Flush eyes thoroughly with water for several minutes and seek medical attention if discomfort persists. In case of eye contact : 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. 2.2 Most important symptoms and effects, both acute and delayed Symptoms : Inhalation of process fumes and vapors may cause soreness in the nose and throat and coughing. 4.3 Indication of any immediate medical attention and special treatment needed Treatment : Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient. 5. Fire-fighting measures : Freefighting measures <th>Version 1.3 Revision Date 11/06/2019 Print Date 12/20/2 medical attention. In case of excessive inhalation of generated during heating of this m fresh air. Obtain medical attention. Keep person warm, if necessary of Resuscitation (CPR) In case of skin contact If molten material contacts the sk large amounts of water to cool the polymer. In case of eye contact If molten material contacts the sk large amounts of water to cool the polymer. In case of eye contact If sees thoroughly with water medical attention if discomfort per continuously flush eye(s) with cool 15 minutes. Beyond flushing, DO NOT attemp adherent to the eye(s). Immediately seek medical attention of socress fumes and vin the nose and throat and coughi 42 Most important symptoms and effects, both acute and delayed Symptoms 43 Indication of any immediate medical attention and special treatm Treatment of overxposure should symptoms and the clinical condition of symptoms and the clinical condition of a symptoms and the clinical condition of the symptoms and the clinical condition symptoms and the</th> <th>lyondellbasell</th>	Version 1.3 Revision Date 11/06/2019 Print Date 12/20/2 medical attention. In case of excessive inhalation of generated during heating of this m fresh air. Obtain medical attention. Keep person warm, if necessary of Resuscitation (CPR) In case of skin contact If molten material contacts the sk large amounts of water to cool the polymer. In case of eye contact If molten material contacts the sk large amounts of water to cool the polymer. In case of eye contact If sees thoroughly with water medical attention if discomfort per continuously flush eye(s) with cool 15 minutes. Beyond flushing, DO NOT attemp adherent to the eye(s). Immediately seek medical attention of socress fumes and vin the nose and throat and coughi 42 Most important symptoms and effects, both acute and delayed Symptoms 43 Indication of any immediate medical attention and special treatm Treatment of overxposure should symptoms and the clinical condition of symptoms and the clinical condition of a symptoms and the clinical condition of the symptoms and the clinical condition symptoms and the	lyondellbasell
medical attention. In case of excessive inhalation of fumes that may be generated during heating of this material, move the person to fresh air. Obtain medical attention. Keep person warm, if necessary give Cardio-Pulmonary Resuscitation (CPR) In case of skin contact : If molten material contacts the skin, immediately flush with large amounts of water to cool the affected tissue and polymer. Do not attempt to peel polymer from skin as this will remove the skin. Obtain immediate emergency medical attention if burn is deep or extensive. In case of eye contact : Flush eyes thoroughly with water for several minutes and seek medical attention fi discomfort persists. In case of eye contact : 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. 12 Most important symptoms and effects, both acute and delayed Symptoms : Inhalation of process fumes and exports may cause soreness in the nose and throat and coupling. Hazards : Dust contact with the eyes can lead to mechanical irritation. Molten polymer may cause thermal burns. 43 Indication of any immediate medical attention and special treatment needed Treatment : Treatment of overexposure should be di	medical attention. In case of excessive inhalation of generated during heating of this n fresh air. Obtain medical attention. Keep person warm, if necessary (Resuscitation (CPR) In case of skin contact : If molten material contacts the sk large amounts of water to cool the polymer. Do not attempt to peel polymer fro the skin. Obtain immediate emergency me or extensive. In case of eye contact : Flush eyes thoroughly with water medical attention if discomfort peu : In case of eye contact : Flush eyes thoroughly with water medical attention if discomfort peu : In case of eye contact with molter Continuously flush eye(s) with co 15 minutes. Beyond flushing, DO NOT attemp adherent to the eye(s). Immediately seek medical attention if swallowed : Adverse health effects due to ingen 4.2 Most important symptoms and effects, both acute and delayed Symptoms : Inhalation of process fumes and v in the nose and throat and coughi Hazards : Dust contact with the eyes can lee Molten polymer may cause therm 4.3 Indication of any immediate medical attention and special treatm Treatment : Treatment of overexposure should symptoms and the clinical condition 5. Fire-fighting measures 5.1 Extinguishing media	
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Obtain immediate emergency medical attention if burn is deep or extensive. In case of eye contact : Flush eyes thoroughly with water for several minutes and seek medical attention if discomfort persists. : In case of eye contact with molten polymer: Continuously flush eye(s) with cool running water for at least 15 minutes. Beyond flushing, DO NOT attempt to remove the material adherent to the eye(s). Immediately seek medical attention. If swallowed : Adverse health effects due to ingestion are not anticipated. 4.2 Most important symptoms and effects, both acute and delayed Symptoms : Inhalation of process fumes and vapors may cause soreness in the nose and throat and coughing. Hazards : Dust contact with the eyes can lead to mechanical irritation. Molten polymer may cause thermal burns. 4.3 Indication of any immediate medical attention and special treatment needed Treatment : Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient. 5. Fire-fighting measures 5.1 Extinguishing media	Obtain immediate emergency me or extensive. In case of eye contact : Flush eyes thoroughly with water medical attention if discomfort per continuously flush eye(s) with conts minutes. Beyond flushing, DO NOT attemp adherent to the eye(s). Immediately seek medical attention If swallowed : Adverse health effects due to inget adherent to the eye(s). Immediately seek medical attention 4.2 Most important symptoms and effects, both acute and delayed Symptoms : Inhalation of process fumes and vin the nose and throat and coughi in the nose and throat and coughi is the nose and	material, move the person to give Cardio-Pulmonary tin, immediately flush with e affected tissue and
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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. A.3 Indication of any immediate medical attention and special treatment needed Treatment : Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient. Fire-fighting measures A.1 Extinguishing media	Symptoms : Inhalation of process fumes and vin the nose and throat and coughin the nose and the clinical condition. A.3 Indication of any immediate medical attention and special treatment : Treatment of overexposure should symptoms and the clinical condition. A.3 Fire-fighting measures : Tireatinguishing media	estion are not anticipated.
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Molten polymer may cause thermal burns. I.3 Indication of any immediate medical attention and special treatment needed Treatment Treatm	Molten polymer may cause therm I.3 Indication of any immediate medical attention and special treatm Treatment : Treatment of overexposure should symptoms and the clinical condition 5. Fire-fighting measures 5.1 Extinguishing media	
Treatment : Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient. 5. Fire-fighting measures 5.1 Extinguishing media	Treatment : Treatment of overexposure should symptoms and the clinical condition 5. Fire-fighting measures 5.1 Extinguishing media	
symptoms and the clinical condition of the patient. 5. Fire-fighting measures 5.1 Extinguishing media	symptoms and the clinical condition. 5. Fire-fighting measures 5.1 Extinguishing media	nent needed
5.1 Extinguishing media	5.1 Extinguishing media	
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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 t	
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	ve equipment and emergency procedures
Personal precautions	: Equip responders with proper protection. Creates dangerous slipping hazard on any hard smooth surface.
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	Equip emergency responders of equipment (PPE) Avoid generating dust. Avoid dispersal of dust in the a with compressed air). Potential combustible dust haz Polymer particles create slippin surfaces.	ir (i.e., clearing dust surfaces ard.
6.2 Environmental precautions		
Environmental precautions :	Do not flush into surface water	or sanitary sewer system.
6.3 Methods and materials for conta	ainment and cleaning up	
Methods for containment / : Methods for cleaning up		h avoids ignition risk. collect and contain as any be packaged, labeled, reclaimed in conformance with a and in conformance with good
7. Handling and storage		
7.1 Precautions for safe handling		
Advice on safe handling :	environments may ignite the due explosion Electrostatic charge may build Equipment handling polymers grounded (earthed) and bonder Metal containers involved in the	hay form combustible dust closed space. It suspended in air and in the is a potential dust explosion her ignition sources, in high dust ust and result in a dust during conveying or handling. hould be conductive and d.
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SAFETY DATA SH according to Regulation		/2006		lyond	ellbasell
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Fire-fighting class 7.2 Conditions for safe Requirements for st	storage, inclu	All electrica codes and r combustible After handlir water. When bringi may develop section 10. Polymer will	egulatory require dusts. ng, always wash ng the material to may condense burn but does no ncompatibilities	Id conform to appli ments for areas ha hands thoroughly v o processing tempe in the exhaust vent ot easily ignite.	andling with soap and eratures vapors
areas and container	s i i	Use good ha and handling should be u Store away oxidizing ag Keep contai Take measu	ousekeeping prac g. Process enclos sed to avoid exce from excessive h ents. ner closed to pre ires to prevent th	ctices during storag sures and adequate essive dust accumu leat and away from vent contamination le build up of electr	e ventilation ulation. strong
	: {	See Section	1.2.		
8. Exposure controls/pe 8.1 Control parameters Ingredients with w Occupational Expo	orkplace contr osure Limits	ol parame			
Components	CAS-No.	Туре	Limit Value	Basis Revision Date	Additional Information
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be formed when handling this product: Non- specified (inert or nuisance) dust Materials that can		TWA	inhalable 3 mg/m3	2005 US (ACGIH)	
be formed when handling this product: Non- specified (inert or nuisance) dust			respirable	2005	

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.
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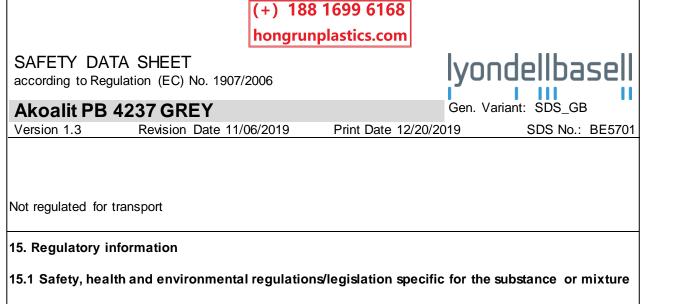
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Eye and face protection		be worn to prevent mechanical es due to airborne particles which
Skin and body protection	: Wear suitable protective clot	
Hygiene measures	be based on an evaluation or of the protective equipment in performed, conditions present hazards and/or potential haz during use. Use good personal hygiene	nt, duration of use, and the ards that may be encountered practices. drinking, smoking, or using toilet
Environmental exposure co	ontrols	
General advice	: See section 6.	
9. Physical and chemical prope 9.1 Information on basic physica		
Appearance	: Pellets.	
Color	: Grey.	
Odor	: Slight.	
Flash point	: No Data Available.	
Lower explosion limit	: The minimum explosive cond varies according to particle s	centration (MEC) for polymer dust size distribution.
Upper explosion limit	: Not applicable.	
Flammability (solid, gas)	: Polymer will burn but does n	ot easily ignite.
Oxidizing properties	: Not considered an oxidizing	agent.
Autoignition temperature	: > 300 °C	
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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-	: No Data Available.
octanol/water Viscosity, dynamic	: Not applicable.
Relative vapor density	: Not applicable.
Evaporation rate	: Not applicable.
Explosive properties	: No Data Available.
2 Other information	
Other information	: No additional information available.
). Stability and reactivity	
0.1 Reactivity	
No known reactivity hazards.	
0.2 Chemical stability	
Stable under normal conditio	ins.
0.3 Possibility of hazardous re	eactions
Hazardous reactions	: Will not occur.
0.4 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 10.6 Hazardous decomposition Hazardous decomposition products Thermal decomposition 	products : Not expected to : Note: Carbon mo	softened by some hydro decompose under norma pnoxide, olefinic and para organic acids, ketones, formed.	al conditions. affinic compounds,	
 I1. Toxicological information I1.1 Information on toxicological Acute toxicity Acute oral toxicity 	:			
Acute inhalation toxicity	Not classified : Not classified			
Acute dermal toxicity	: Not classified			
Skin corrosion/irritation	: Not a skin irritant			
Serious eye damage/eye irritation	: Not an eye irritar Mechanical irritat			
Respiratory or skin sensitization	: Not classified			
Chronic toxicity				
Carcinogenicity	: Not classified			
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Akoalit PB 4237 GREY				iant: SDS_GB
Version 1.3 Revision Da	te 11/06/2019	Print Date 12/20	/2019	SDS No.: BE5701
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		
		e or mixture is not t, single exposure.	classified as	specific target
Target Organ Systemic Tox	icant - Repeated e	exposure		
		e or mixture is not t, repeated exposu		specific target
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 biodegradab	le.	
12.3 Bioaccumulative potential				
Bioaccumulation	: This material i	s not expected to	bioaccumulat	e.
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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 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 methods	
Product	: All recovered material should be packaged, labeled, transported and disposed of or reclaimed in conformance with applicable laws and regulations and in conformance with good engineering practices. Reclaim where possible. Recycle if possible.
14. Transport information	
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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



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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.

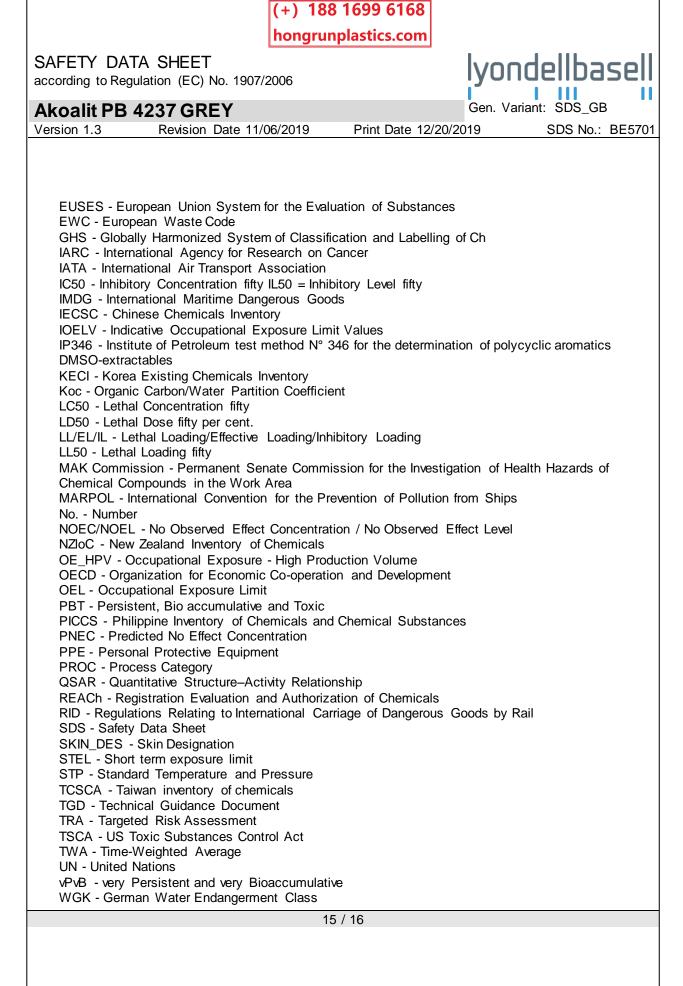
16. OTHER INFORMATION

Material safety datasheet sections which have been updated:

Revised Section(s): 15 16 Abbreviations and Acronyms

ACGIH - American Conference of Governmental Industrial Hygienists ACGIH BEIs - American Conference of Governmental Industrial Hygienists Biological Exposure Indices ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road AICS - Australian Inventory of Chemical Substances 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

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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.

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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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