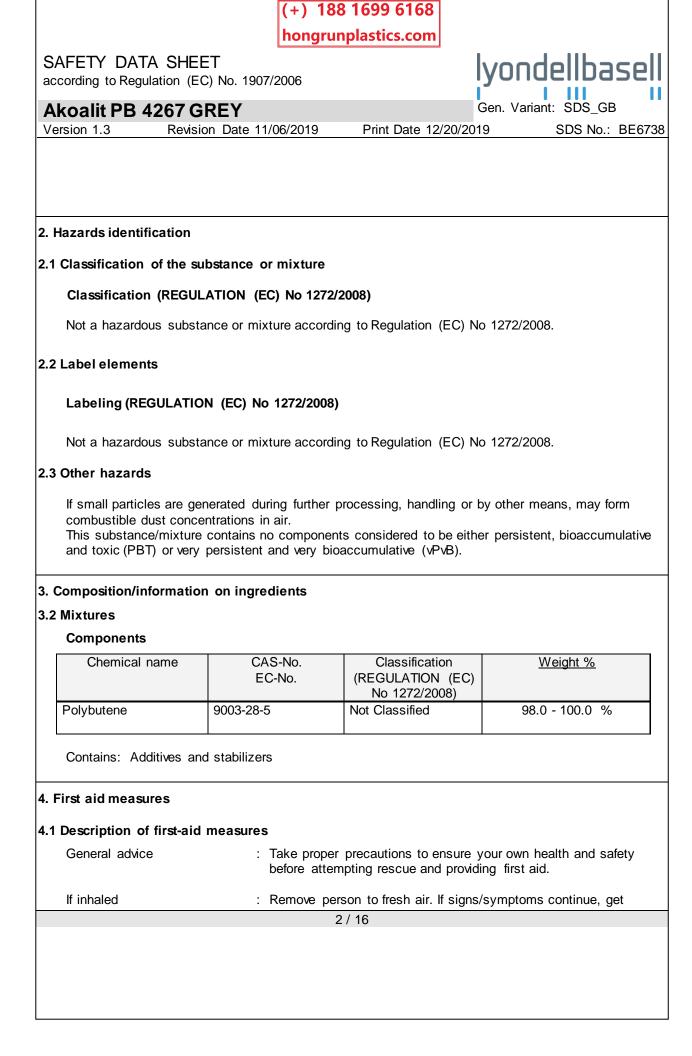
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SAFETY DATA SHEET according to Regulation (EC) No. 1	907/2006	lyor	ndellbasell
Akoalit PB 4267 GREY		Gen. Va	riant: SDS_GB
Version 1.3 Revision Date	11/06/2019 Print I	Date 12/20/2019	SDS No.: BE6738
1. Identification of the substance/	mixture and of the com	pany/undertaking	
1.1 Product identifier			
Trade name Synonyms Substance name Substance No. Chemical characterization	 Akoalit PB 4267 GRE Polybutene, 1-Butene Polybutene Homopoly 9003-28-5 Polybutene 	Homopolymer, PB	
1.2 Relevant identified uses of the	e substance or mixture	and uses advised ag	ainst
Identified uses	: Manufacture of plastic or other conversion pl	c articles by injection n rocess.	nolding, extrusion
Prohibited uses	devices; Health Canad	devices; European cl da class IV Medical De permanent implantational applications	evices;
1.3 Details of the supplier of the s	afety data sheet		
Company Basell Sales & Marketing Compar Delftseplein 27E 3013 AA Rotterdam Netherlands			Telephone 1 (0) 10 275 55 00
E-mail address : Responsible/issuing person	product.safety@lyb.com	1	
1.4 Emergency telephone numbe	r		
Basell Sales & Marketing Compar	y B.V.	+3	32 3 575 1235
Poison Center: National Poisons Information Serv UK: +44 131 242 1383 24 hours all days	ice		
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according to Regulation	ET Ivondellbase
Akoalit PB 4267	C) NO. 1907/2008
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	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 conta	 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 conta	: Flush eyes thoroughly with water for several minutes and seek medical attention if discomfort persists.
	 In case of eye contact with molten polymer: Continuously flush eye(s) with cool running water for at least 15 minutes. Beyond flushing, DO NOT attempt to remove the material adherent to the eye(s). Immediately seek medical attention.
If swallowed	: Adverse health effects due to ingestion are not anticipated.
.2 Most important sym	oms 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.
.3 Indication of any im	ediate 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 measure .1 Extinguishing medi	
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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	he substance or mixture
Specific hazards during fire fighting	 Keep away from heat and sources of ignition. In case of fire hazardous decomposition products may be produced such as: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).
5.3 Advice for firefighters	
Special protective equipment for fire-fighters	: Wear approved positive pressure self-contained breathing apparatus and firefighter protective clothing.
Further information	 Combustible particulate solid, will decompose under fire conditions. Calorific Value: 8000 - 11000 kcal/kg Fight fire from safe distance with hose lines or monitor nozzles. Heat from fire may melt, decompose polymer, and generate flammable vapors. Move containers from fire area if it can be done without risk. Evacuate immediately in the event of opening of storage container pressure relief devices or discoloration of container. Always stay away from tanks engulfed in fire. Do not attempt to get on top of storage containers involved in fire. Cool storage containers with large volumes of water even after fire is out.
6. Accidental release measures	
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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Akoalit PB 4267 GREY		Gen. Variant: SDS_GB
Version 1.3 Revision Date 1	1/06/2019 Print Date 12/20	/2019 SDS No.: BE6738
	Equip emergency responders wi equipment (PPE) Avoid generating dust. Avoid dispersal of dust in the air with compressed air). Potential combustible dust hazar Polymer particles create slipping surfaces.	(i.e., clearing dust surfaces
6.2 Environmental precautions		
Environmental precautions :	Do not flush into surface water of	or sanitary sewer system.
6.3 Methods and materials for conta	inment and cleaning up	
Methods for containment / : Methods for cleaning up	On land, sweep/shovel into suita vacuum using equipment which On water, material is insoluble; o solid. All recovered material should be transported and disposed of or r applicable laws and regulations engineering practices. Reclaim v	avoids ignition risk. collect and contain as any packaged, labeled, reclaimed in conformance with 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 du handling, or by other means, ma concentrations in air. Avoid dust accumulation in enclo Avoid generating dust; fine dust presence of an ignition source is hazard. Static discharge (spark), or othe environments may ignite the dus explosion Electrostatic charge may build d Equipment handling polymer sho grounded (earthed) and bonded. Metal containers involved in the	ay form combustible dust osed space. suspended in air and in the s a potential dust explosion r ignition sources, in high dust st and result in a dust luring conveying or handling. ould be conductive and
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SAFETY DATA SH according to Regulation		/2006		lyond	lellbasell
Akoalit PB 4267	GREY			Gen. Variar	nt: SDS_GB
Version 1.3 Rev	ision Date 11	/06/2019	Print Date 12	2/20/2019	SDS No.: BE6738
Fire-fighting class 7.2 Conditions for safe Requirements for sto areas and containers	: storage, inclu orage :	All electrical codes and re combustible After handlir water. When bringi may develop section 10. Polymer will Iding any ir Store in a di Use good he and handling should be us Store away oxidizing ag Keep contai	egulatory require dusts. ng, always wash ng the material to may condense burn but does n acompatibilities y location. pusekeeping prace g. Process enclosed to avoid excert from excessive hents. ner closed to pre	Id conform to appl ments for areas ha hands thoroughly o processing temp in the exhaust ven ot easily ignite.	andling with soap and eratures vapors tilation. See ge, transferring e ventilation ulation. n strong n.
7.3 Specific end use(s)	:	See Section	1.2.		
8. Exposure controls/pe 8.1 Control parameters Ingredients with wo Occupational Expo	orkplace cont		ters		
Components	CAS-No.	Туре	Limit Value	Basis Revision Date	Additional Information
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SAFETY DATA	SHEET	L		lvoor	lellbase
according to Regulat	ion (EC) No. 1907	/2006		lyonic	
Akoalit PB 42	67 GREY			Gen. Varia	nt: SDS_GB
/ersion 1.3	Revision Date 11	/06/2019	Print Date 12	/20/2019	SDS No.: BE67
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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Eye and face protection		d be worn to prevent mechanical yes due to airborne particles which			
Skin and body protection	: Wear suitable protective clo				
Hygiene measures	be based on an evaluation of the protective equipment performed, conditions prese hazards and/or potential ha during use. Use good personal hygiene Wash hands before eating, facilities.	rsonal protective equipment should of the performance characteristics relative to the task(s) to be ent, duration of use, and the azards that may be encountered e practices. drinking, smoking, or using toilet hing and wash before reuse.			
Environmental exposure co	Environmental exposure controls				
General advice	: See section 6.				
9. Physical and chemical proper 9.1 Information on basic physica					
Appearance	: Pellets.				
Color	: Grey.				
Odor	: Slight.				
Flash point	: No Data Available.				
Lower explosion limit	: The minimum explosive convaries according to particle	ncentration (MEC) for polymer dust size distribution.			
Upper explosion limit	: Not applicable.				
Flammability (solid, gas)	: Polymer will burn but does	not easily ignite.			
Oxidizing properties	: Not considered an oxidizing	g agent.			
Autoignition temperature	: > 300 °C				
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according to Regulation (EC) No.	1907/2006 IyuluElibaSe
Akoalit PB 4267 GRE	Gen. Variant: SDS_GB
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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- 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.
0. Stability and reactivity	
0.1 Reactivity	
No known reactivity hazards.	
0.2 Chemical stability	
Stable under normal condition	ns.
0.3 Possibility of hazardous re	actions
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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Version 1.3 Revision Da	ate 11/06/2019	Print Date 12/20	/2019	SDS No.: BE6738
 10.5 Incompatible materials Materials to avoid 10.6 Hazardous decomposition Hazardous decomposition products Thermal decomposition 	products : Not expected t : Note: Carbon r	nonoxide, olefinic of organic acids,	der normal co	onditions. c compounds,
11. Toxicological information 11.1 Information on toxicologic Acute toxicity Acute oral toxicity	al effects			
Acute inhalation toxicity	Not classified : Not classified			
-				
Acute dermal toxicity	: Not classified			
Skin corrosion/irritation	: Not a skin irrita	int.		
Serious eye damage/eye irritation	: Not an eye irrit Mechanical irri	ant. tation is possible.		
Respiratory or skin sensitization	: Not classified			
Chronic toxicity				
Carcinogenicity	: Not classified			
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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 expo	osure		
		e or mixture is not , single exposure.	classified as	specific target
Target Organ Systemic Tox	icant - Repeated e	xposure		
		e or mixture is not , repeated exposu		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 t	o be biodegradabl	e.	
12.3 Bioaccumulative potential				
Bioaccumulation	: This material is	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	assessment
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	í de la companya de l
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



Compliant

Contact product.safety@lyb.com for additional global inventory information.

TCSCA

15.2 Chemical safety assessment

Taiwan

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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SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Akoalit PB 4267 GREY

Version 1.3

Revision Date 11/06/2019

Print Date 12/20/2019

SDS No.: BE6738

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.

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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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