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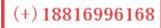
Akoafloor PB 4235-1 IVORY

Version 1.1 Revision Date 12/04/2015

Print Date 04/12/2017

SDS No.: BE8825

1. Identification of the subs	tance/mixture and o	of the company/undertak	ing
1.1 Product identifier			
Trade name Synonyms Substance name Substance No.	: Polybutene	PB 4235-1 IVORY e, 1-Butene Homopolymer, e Homopolymer	PB, PB
1.2 Relevant identified uses	s of the substance o	or mixture and uses advis	ed against
Identified uses		re of plastic articles by inje nversion process.	ction molding, extrusion
Prohibited uses	devices; H Applicatior	a III medical devices; Europ ealth Canada class IV Med ns involving permanent imp ning medical applications	lical Devices;
1.3 Details of the supplier o	f the safety data sh	eet	1.4 Emergency telephone
Company Basell Sales & Marketing Company B.V. Delftseplein 27E 3013 AA Rotterdam Netherlands	Telephone 31 (0) 10 275 55 00	Registration number NA	Emergency telephone +32 3 575 1235
			Poison Center: National Poisons Information Service UK: +44 131 242 1383 24 hours all days
E-mail address Responsible/issuing pers	: product.safe son	ety@lyb.com	
2. Hazards identification			
2.1 Classification of the sub	ostance or mixture		
Classification (REGUL	ATION (EC) No 1272	2/2008)	
Not a hazardous substar	nce or mixture accord	ding 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 (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Weight %
Polybutene	9003-28-5	Not Classified	Not Classified	95.0 - 100.0 %

Contains: Additives and stabilizers

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 the skin. Obtain immediate emergency medical attention if burn is deep
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		or extensive.		
In case of eye contact	:		oroughly with water for sev tion if discomfort persists.	reral minutes and seek
	:		e contact with molten polym flush eye(s) with cool runn	
		adherent to the	ing, DO NOT attempt to rer ne eye(s). seek medical attention.	nove the material
If swallowed	:	Adverse heal	th effects due to ingestion a	are not anticipated.
Most important symptoms	and e	ffects, both a	cute and delayed	
Symptoms	:		process fumes and vapors nd throat and coughing.	may cause soreness
Hazards	:		with the eyes can lead to m er may cause thermal burn	
Indication of any immediate	e mec	lical attention	and special treatment ne	eded
Treatment	:		overexposure should be di Id the clinical condition of th	
Fire-fighting measures				
Fire-fighting measures Extinguishing media				
	a :	SMALL FIRE Use dry chen	: nical, CO2, or water spray.	
Extinguishing media		Use dry chen	nical, CO2, or water spray.	fe location.
Extinguishing media Suitable extinguishing media Unsuitable extinguishing media	:	Use dry chen LARGE FIRE Use water sp None known.	nical, CO2, or water spray. S: ray hose nozzles from a sa	fe location.
Extinguishing media Suitable extinguishing media Unsuitable extinguishing media Special hazards arising from	: : m the	Use dry chen LARGE FIRE Use water sp None known.	nical, CO2, or water spray. S: ray hose nozzles from a sa r mixture	
Extinguishing media Suitable extinguishing media Unsuitable extinguishing media	: : m the	Use dry chen LARGE FIRE Use water sp None known. substance o Keep away fr In case of fire produced suc	nical, CO2, or water spray. S: ray hose nozzles from a sa r mixture om heat and sources of igr hazardous decomposition ch as: oxide, carbon dioxide and u	iition. products may be
Extinguishing media Suitable extinguishing media Unsuitable extinguishing media Special hazards arising from Specific hazards during fire	: : m the	Use dry chen LARGE FIRE Use water sp None known. substance o Keep away fr In case of fire produced suc Carbon mone	nical, CO2, or water spray. S: ray hose nozzles from a sa r mixture om heat and sources of igr hazardous decomposition ch as: oxide, carbon dioxide and u	iition. products may be
Extinguishing media Suitable extinguishing media Unsuitable extinguishing media Special hazards arising from Specific hazards during fire fighting	: : : :	Use dry chen LARGE FIRE Use water sp None known. substance o Keep away fr In case of fire produced suc Carbon mono hydrocarbons	nical, CO2, or water spray. S: ray hose nozzles from a sa r mixture om heat and sources of igr hazardous decomposition ch as: oxide, carbon dioxide and u	nition. products may be nburned ontained breathing

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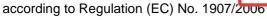


according to Regulation (EC) No. 1907/2006

Akoafloor PB 4235-1 IV	ORY	Gen.	Variant: SDS_GB
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Further information	conditions.	articulate solid, will decom : 8000 - 11000 kcal/kg	pose under fire
	Fight fire from a nozzles. Heat from fire r flammable vap Move containe Evacuate imme container press Always stay aw Do not attempt fire. Cool storage c	safe distance with hose lin may melt, decompose poly ors. rs from fire area if it can be ediately in the event of ope sure relief devices or disco vay from tanks engulfed in to get on top of storage c ontainers with large volum	ymer, and generate e done without risk. ening of storage ploration of container. fire. ontainers involved in
	after fire is out.		
6. Accidental release measures			
6.1 Personal precautions, protec	tive equipment an	d emergency procedure	S
Personal precautions	Creates dange surface. Equip emerger equipment (PP Avoid generatin Avoid dispersa with compress Potential comb	ng dust. I of dust in the air (i.e., cle	ny hard smooth r personal protective aring dust surfaces
6.2 Environmental precautions			
Environmental precautions	: Do not flush int	to surface water or sanitar	y sewer system.
5.3 Methods and materials for co	ntainment and cle	aning up	
Methods for cleaning up	vacuum using On water, mate solid. All recovered n transported an applicable laws	p/shovel into suitable dispo equipment which avoids ig erial is insoluble; collect ar naterial should be package d disposed of or reclaimed s and regulations and in co actices. Reclaim where po	nition risk. nd contain as any ed, labeled, d in conformance with onformance with good
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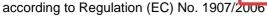
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Gen. Variant: SDS_GB

7. Handling and storage	
7.1 Precautions for safe handlin	g
Advice on safe handling	 Material is in a pellet form. If converted to small particles during further processing, handling, or by other means, may form combustible dust concentrations in air. Avoid dust accumulation in enclosed space. Avoid generating dust; fine dust suspended in air and in the presence of an ignition source is a potential dust explosion hazard. Static discharge (spark), or other ignition sources, in high dust environments may ignite the dust and result in a dust explosion Electrostatic charge may build during conveying or handling. Equipment handling polymer should be conductive and grounded (earthed) and bonded. Metal containers involved in the transfer of this material should be grounded and bonded. All electrical equipment should conform to applicable electric codes and regulatory requirements for areas handling combustible dusts. After handling, always wash hands thoroughly with soap and water. When bringing the material to processing temperatures vapors may develop may condense in the exhaust ventilation. See 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 areas and containers	 Store in a dry location. Use good housekeeping practices during storage, transferring 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.
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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. Use appropriate respiratory protection where atmosphere exceeds recommended limits. Where workers could be exposed to dust concentrations
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	above the exposure limit they must use appropriate certified respirators.
Hand protection	: Wear gloves that provide thermal protection where there is a potential for contact with heated material.
Eye and face protection	: Dust service goggles should be worn to prevent mechanical injury or other irritation to eyes due to airborne particles which may result from handling this product.
Skin and body protection	: Wear suitable protective clothing.
Hygiene measures	 Selection of appropriate personal protective equipment shoul be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the hazards and/or potential hazards that may be encountered during use. Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Take off contaminated clothing and wash before reuse.
Environmental exposure c	ontrols
General advice	: See section 6.
hysical and shamical press	
hysical and chemical prope	
Information on basic physic	cal and chemical properties
Information on basic physic Appearance	cal and chemical properties : Pellets.
Information on basic physic	cal and chemical properties
Information on basic physic Appearance Color	cal and chemical properties : Pellets. : Ivory white
Information on basic physic Appearance Color Odor	 cal and chemical properties Pellets. Ivory white Slight. Note: The minimum explosive concentration (MEC) for
Information on basic physic Appearance Color Odor Lower explosion limit	 cal and chemical properties Pellets. Ivory white Slight. Note: The minimum explosive concentration (MEC) for polymer dust varies according to particle size distribution.
Information on basic physic Appearance Color Odor Lower explosion limit Upper explosion limit	 cal and chemical properties Pellets. Ivory white Slight. Note: The minimum explosive concentration (MEC) for polymer dust varies according to particle size distribution. Note: Not applicable.
Information on basic physic Appearance Color Odor Lower explosion limit Upper explosion limit Flammability (solid, gas)	 cal and chemical properties Pellets. Ivory white Slight. Note: The minimum explosive concentration (MEC) for polymer dust varies according to particle size distribution. Note: Not applicable. Polymer will burn but does not easily ignite.
Information on basic physic Appearance Color Odor Lower explosion limit Upper explosion limit Flammability (solid, gas) Oxidizing properties	 cal and chemical properties Pellets. Ivory white Slight. Note: The minimum explosive concentration (MEC) for polymer dust varies according to particle size distribution. Note: Not applicable. Polymer will burn but does not easily ignite. Not considered an oxidizing agent.

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Melting point/range	: 50 - 170 °C
Boiling point/boiling range	: Note: Not applicable.
Vapor pressure	: Note: Not applicable.
Density	: <1 g/cm3
Water solubility	: Note: Insoluble.
Partition coefficient: n- octanol/water	: Note: No Data Available.
Viscosity, dynamic	: Note: Not applicable.
Relative vapor density	: Note: Not applicable.
Evaporation rate	: Note: Not applicable.

Explosive properties : No Data Available.

9.2 Other information

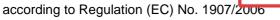
10. Stability and reactivity	
10.1 Reactivity	
No known reactivity hazards.	
10.2 Chemical stability	
Stable under normal condition	ns.
10.3 Possibility of hazardous rea	actions
Hazardous reactions	: Will not occur.
10.4 Conditions to avoid	
Conditions to avoid	: Avoid contact with strong oxidizers, excessive heat, sparks or open flame.
10.5 Incompatible materials	
Materials to avoid	: Material may be softened by some hydrocarbons.
10.6 Hazardous decomposition	products
Hazardous decomposition products	: Not expected to decompose under normal conditions.
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SAFETY DATA SHEET according to Regulation (EC) No.	1907/2006 Yondelbase
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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	Il effects
Acute toxicity	
Acute oral toxicity	: Not classified
Acute inhalation toxicity	: Not classified
Acute dermal toxicity	: Not classified
Skin corrosion/irritation	: Not a skin irritant.
Serious eye damage/eye irritation	: Not an eye irritant. Mechanical irritation is possible.
Respiratory or skin sensitization	: Not classified
Chronic toxicity	
Carcinogenicity	: Not classified
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 exposure
	: The substance or mixture is not classified as specific target organ toxicant, single exposure.
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SAFETY DATA SHEET				
according to Regulation (EC) No. 1	907/2006 Iyondellbasel			
Akoafloor PB 4235-1 IVORY Gen. Variant: SDS_GB				
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Target Organ Systemic Toxicant - 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	у			
Biodegradability	: Not expected to be biodegradable.			
	. Not expected to be biologiadable.			
12.3 Bioaccumulative potential				
Bioaccumulation	: This material is not expected to bioaccumulate.			
12.4 Mobility in soil				
Additional advice	: This material is not volatile and insoluble in water.			
Environmental fate and pathways				
12.5 Results of PBT and vPvB ass				
	is 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.			
	No data available on this product. However, birds, fish and other wildlife may eat pellets which may obstruct their			
	intestinal tracts.			
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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

Not regulated for transport

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACh status

If the product has been purchased from any company of the LyondellBasell group of companies registered in the European Union, we confirm that all substances in this preparation have been pre-registered or, where required under REACh, registered, and that we have the intention to proceed with their registration in accordance with the deadlines set forth in REACh. (Regulation (EU) No. 1907/2006)

Other international regulations

Global Inventory Status

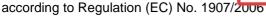
The ingredients of this product are compliant with the following chemical inventory requirements or exemptions.

*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
New Zealand	NZIoC	Compliant
Philippines	PICCS	Compliant
United States of America	TSCA	Compliant
Taiwan	TCSCA	Compliant

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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): 1 2 7 8 15 November 10 2015

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.

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.



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Disclaimer

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.