

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form	: Substance
Trade name	: Polyisobutene (PIB)
Chemical name	: 1-Propene, 2-methyl-, homopolymer
EC-No.	: 618-360-8
CAS-No.	: 9003-27-4
Product code	: PIB06, PIB06 IBC, PIB06 TF, PIB06 TR, PIB08, PIB08 TF, PIB08 TR, PIB10, PIB10 IBC, PIB10 TF, PIB10 TR, PIB10B, PIB10B IBC, PIB10B TF, PIB12, PIB12 TF, PIB12 TR, PIB16, PIB16 IBC, PIB16 TF, PIB16 TR, PIB18, PIB18 TF, PIB18 TR, PIB20, PIB20 TF, PIB20 TR, PIB24, PIB24 A, PIB24 A TR, PIB24 TF, PIB24 TR, PIB28, PIB28 TF, PIB28 TR, PIB28LZ, PIB30, PIB30 TF, PIB30 TR, PIB32, PIB32DM, PIB32 TF, PIB32 TR, PIB32 3M, PIB80, PIB80 TF, PIB80 TR, PIB90, PIB120, PIB120 TF, PIB120 TR, PIB121, PIB121 TR, PIB122, PIB122 TF, PIB122 TR, PIB122LZ, PIB126, PIB126 TF, PIB126 TR, PIB128, PIB128 TF, PIB128 TR, PIB128KL, PIB128KL TR, PIB240, PIB240 TF, PIB240 TR, PIB240KL, PIB240KL TR, PIB N/E.
Formula	: (C <sub>4</sub> H <sub>8</sub> ) <sub>x</sub>
Synonyms	: POLYISOBUTENE / Poly(4+) isobutylene / Polyisobutene / 1-Propene, 2-methyl-, homopolymer

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### 1.2.1. Relevant identified uses

Industrial/Professional use spec	: Industrial
Use of the substance/mixture	: Use as an intermediate Formulation & (re)packing of substances and mixtures coatings Adhesives Agrochemicals Fuels Lubricants and additives Laboratory chemicals Functional fluids Consumer use Metal working fluids Cosmetics, personal care products

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Supplier (Only Representative):  
Braskem Netherland BV  
Weena 238-240, 9th Floor, Tower C  
NL - 3012 NJ – Rotterdam  
+31 10 798 5002

Email: [productsafety@braskem.com](mailto:productsafety@braskem.com)

Website : [www.braskem.com.br](http://www.braskem.com.br)

#### 1.4. Emergency telephone number

Emergency number : +1 703-741-5970 (24h)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

**Adverse physicochemical, human health and environmental effects**

No additional information available

#### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

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### 2.3. Other hazards

other hazards which do not result in classification : Spilled material may present a slipping hazard.

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Name	Product identifier	%
Polyisobutylene	CAS-No.: 9003-27-4 EC-No.: 618-360-8	100

Comments : The substance has a variable viscosity and some grades meet the criteria for classification as an aspiration hazard, while some grades do not meet the criteria for classification. The information in Section 3 of this SDS indicates that the CAS number is associated with the Aspiration Toxicity hazard classification. In the absence of a measured viscosity, the substance will be classified as being an aspiration hazard. Where viscosity measurements are available, the overall classification presented in Section 2 of this SDS will reflect the hazard classification based on the measured viscosity.

### 3.2. Mixtures

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Remove victim to fresh air. If breathing stops, give artificial respiration. Get medical advice/attention. Allow affected person to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact : In case of contact with cold material: Wash skin with plenty of water and soap. In case of contact with hot material: Rinse immediately with plenty of water for 15 minutes. Seek immediate medical advice. Obtain medical attention. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

First-aid measures after eye contact : In case of contact with cold material: Rinse immediately with plenty of water. In case of contact with hot material: Rinse immediately with plenty of water for 15 minutes. Get medical advice/attention. Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.

First-aid measures after ingestion : Do NOT induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Seek medical attention immediately. Rinse mouth. Obtain emergency medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/effects after inhalation : Overexposure to vapours may result in cough.

Symptoms/effects after skin contact : Heated product causes burns.

Symptoms/effects after eye contact : Heated product causes burns.

Symptoms/effects after ingestion : Ingestion may cause nausea and vomiting.

### 4.3. Indication of any immediate medical attention and special treatment needed

In case of skin burns, to minimize physical damage to the skin, do not remove the polybutene. Cover the injured area with appropriate burn gel.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide (CO<sub>2</sub>), dry chemical powder, foam. Water spray. Foam. Dry powder. Carbon dioxide. Sand.

Unsuitable extinguishing media : Do not use a water jet since it may cause the fire to spread. Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : On combustion forms: Carbon dioxide. Carbon monoxide.

Explosion hazard : No direct explosion hazard.

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### 5.3. Advice for firefighters

- Firefighting instructions : Cool closed containers exposed to fire with water spray. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
- Protective equipment for firefighters : Fully enclosed impervious protective suit with integral or tight-fitting gloves, boots, self-contained or supplied air respirator must be worn. For further information refer to section 8: "Exposure controls/personal protection". Do not enter fire area without proper protective equipment, including respiratory protection.
- Other information : Do not allow run-off from fire fighting to enter drains or water courses.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

- Protective equipment : Wear suitable protective clothing. For further information refer to section 8: "Exposure controls/personal protection".
- Emergency procedures : Stop leak if safe to do so. Stay upwind/keep distance from source. Clean up even minor leaks or spills if possible without unnecessary risk. Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

- Protective equipment : Wear suitable protective clothing. For further information refer to section 8: "Exposure controls/personal protection". Equip cleanup crew with proper protection.
- Emergency procedures : Stop leaks if it can be done without personal risk. Stay upwind/keep distance from source. Clean up any spills as soon as possible, using an absorbent material to collect it. Collect all waste in suitable and labelled containers and dispose according to local legislation. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Ventilate area.

### 6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Do not discharge into drains or the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

- For containment : Stop leaks if it can be done without personal risk. Ventilate spillage area. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
- Methods for cleaning up : Take up liquid spill into dry absorbent material e.g.: dry sand/earth/vermiculite. Collect all waste in suitable and labelled containers and dispose according to local legislation. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of residues refer to section 13 : "Disposal considerations". See Section 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Work in a well-ventilated area. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin and eyes. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

### 7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Provide adequate ventilation.
- Storage conditions : Store tightly closed in a dry, cool and well-ventilated place. Bulk storage does not require any special measure. Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.
- Incompatible products : Strong bases. Strong acids.
- Incompatible materials : Strong acids. Strong oxidizing agents. Sources of ignition. Direct sunlight.

### 7.3. Specific end use(s)

See Section 1.

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1 National occupational exposure and biological limit values

No additional information available

##### 8.1.2. Recommended monitoring procedures

No additional information available

##### 8.1.3. Air contaminants formed

No additional information available

##### 8.1.4. DNEL and PNEC

No additional information available

##### 8.1.5. Control banding

No additional information available

#### 8.2. Exposure controls

##### 8.2.1. Appropriate engineering controls

###### Appropriate engineering controls:

Ensure adequate ventilation. Either local exhaust or general room ventilation is usually required. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

##### 8.2.2. Personal protection equipment

###### Personal protective equipment:

Avoid all unnecessary exposure.

###### 8.2.2.1. Eye and face protection

###### Eye protection:

Wear chemical goggles if material is handled hot. No special eye protection equipment recommended under normal conditions of use. Chemical goggles or safety glasses

###### 8.2.2.2. Skin protection

###### Skin and body protection:

When skin contact is possible, protective clothing including gloves, apron, sleeves, boots, head and face protection must be worn

###### Hand protection:

Insulating protective gloves. Impermeable protective gloves. Wear protective gloves

###### 8.2.2.3. Respiratory protection

###### Respiratory protection:

If excessive exposure exists, use only approved air-purifying or supplied air respirator operated in a positive pressure mode. Wear appropriate mask

###### 8.2.2.4. Thermal hazards

No additional information available

##### 8.2.3. Environmental exposure controls

###### Other information:

Do not eat, drink or smoke during use.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Colourless.
Appearance	: Clear. Viscous.
Odour	: characteristic.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Non flammable.
Explosive limits	: Not available
Lower explosion limit	: Not available

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Upper explosion limit	: Not available
Flash point	: PIB06, PIB06 IBC, PIB06 TF, PIB06 TR : 125°C PIB08, PIB08 TF, PIB08 TR : 130°C PIB10, PIB10 IBC, PIB10 TF, PIB10 TR : 130°C PIB10B, PIB10B IBC, PIB10B TF: 130°C PIB12, PIB12 TF, PIB12 TR : 135°C PIB16, PIB16 IBC, PIB16 TF, PIB16 TR : 135°C PIB18, PIB18 TF, PIB18 TR: 150°C PIB20, PIB20 TF, PIB20 TR: 165°C PIB24, PIB24 TF, PIB24 TR: 190°C PIB24 A, PIB24 A TR: 190°C PIB28, PIB28 TF, PIB28 TR: 190°C PIB30, PIB30 TF, PIB30 TR: 190°C PIB32, PIB32 TF, PIB32 TR: 195°C PIB32 3M: 200°C PIB32DM: >=220°C PIB80, PIB80 TF, PIB80 TR: 220°C PIB90 : > 190°C PIB120, PIB120 TF, PIB120 TR: 220°C PIB121, PIB121 TR: 240°C PIB122, PIB122 TF, PIB122 TR: 235°C PIB126, PIB126 TF, PIB126 TR: 240°C PIB128, PIB128 TF, PIB128 TR: 240°C PIB128KL, PIB128KL TR: 240°C PIB240, PIB240 TF, PIB240 TR, PIB240KL TR: 245°C
Auto-ignition temperature	: Not available
Decomposition temperature	: > 260 °C
pH	: Not applicable
Viscosity, kinematic	: PIB06, PIB06 IBC, PIB06 TF, PIB06 TR : 26 - 34 mm <sup>2</sup> /s (37.8°C) PIB08, PIB08 TF, PIB08 TR : 102 -110 mm <sup>2</sup> /s (37.8°C) PIB10, PIB10 IBC, PIB10 TF, PIB10 TR : 20 - 30 mm <sup>2</sup> /s (100°C) PIB10B, PIB10B IBC, PIB10B TF: 20 - 30 mm <sup>2</sup> /s (100°C) PIB12, PIB12 TF, PIB12 TR : 34 - 42 mm <sup>2</sup> /s (100°C) PIB16, PIB16 IBC, PIB16 TF, PIB16 TR : 46 - 52 mm <sup>2</sup> /s (100°C) PIB18, PIB18 TF, PIB18 TR: 65 - 80 mm <sup>2</sup> /s (100°C) PIB20, PIB20 TF, PIB20 TR: 100 - 120 mm <sup>2</sup> /s (100°C) PIB24, PIB24 TF, PIB24 TR: 200 - 240 mm <sup>2</sup> /s (100°C) PIB24 A, PIB24 A TR: 200 - 240 mm <sup>2</sup> /s (100°C) PIB28, PIB28 TF, PIB28 TR: 260 - 320 mm <sup>2</sup> /s (100°C) PIB30, PIB30 TF, PIB30 TR: 600 - 650 mm <sup>2</sup> /s (100°C) PIB32 3M : 610 - 720 mm <sup>2</sup> /s (100°C) PIB32, PIB32DM, PIB32 TF, PIB32 TR: 640 - 720 mm <sup>2</sup> /s (100°C) PIB80, PIB80 TF, PIB80 TR: 1450 – 1700 mm <sup>2</sup> /s (100°C) PIB90 : 1900 - 2100 °C mm <sup>2</sup> /s (100°C) PIB120, PIB120 TF, PIB120 TR: 2300 – 2700 mm <sup>2</sup> /s (100°C) PIB121, PIB121 TR: 2900 - 3200 mm <sup>2</sup> /s (100°C) PIB122, PIB122 TF, PIB122 TR: 3000 - 3400 mm <sup>2</sup> /s (100°C) PIB126, PIB126 TF, PIB126 TR: 3900 – 4200 mm <sup>2</sup> /s (100°C) PIB128, PIB128 TF, PIB128 TR: 4000 – 4700 mm <sup>2</sup> /s (100°C) PIB128KL, PIB128KL TR: 4000 – 4700 mm <sup>2</sup> /s (100°C) PIB240, PIB240 TF, PIB240 TR, PIB240KL TR: 11000 – 14000 mm <sup>2</sup> /s (100°C)
Solubility	: Soluble in hydrocarbons. Water: ≤ 0.1 % Negligible in water
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: 0,84 (PIB06) - 0,92 (PIB240) (water =1)
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

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### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable in use and storage conditions as recommended in item 7. Not established.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known. Hazardous polymerization will not occur. Not established.

### 10.4. Conditions to avoid

Extremely high temperatures. Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong oxidizing agents. Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases. fume. Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: Not applicable
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: Not applicable
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)

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Polyisobutene (PIB) (9003-27-4)	
Viscosity, kinematic	PIB06, PIB06 IBC, PIB06 TF, PIB06 TR : 26 - 34 mm <sup>2</sup> /s (37.8°C) PIB08, PIB08 TF, PIB08 TR : 102 - 110 mm <sup>2</sup> /s (37.8°C) PIB10, PIB10 IBC, PIB10 TF, PIB10 TR : 20 - 30 mm <sup>2</sup> /s (100°C) PIB10B, PIB10B IBC, PIB10B TF: 20 - 30 mm <sup>2</sup> /s (100°C) PIB12, PIB12 TF, PIB12 TR : 34 - 42 mm <sup>2</sup> /s (100°C) PIB16, PIB16 IBC, PIB16 TF, PIB16 TR : 46 - 52 mm <sup>2</sup> /s (100°C) PIB18, PIB18 TF, PIB18 TR: 65 - 80 mm <sup>2</sup> /s (100°C) PIB20, PIB20 TF, PIB20 TR: 100 - 120 mm <sup>2</sup> /s (100°C) PIB24, PIB24 TF, PIB24 TR: 200 - 240 mm <sup>2</sup> /s (100°C) PIB24 A, PIB24 A TR: 200 - 240 mm <sup>2</sup> /s (100°C) PIB28, PIB28 TF, PIB28 TR: 260 - 320 mm <sup>2</sup> /s (100°C) PIB30, PIB30 TF, PIB30 TR: 600 - 650 mm <sup>2</sup> /s (100°C) PIB32 3M : 610 - 720 mm <sup>2</sup> /s (100°C) PIB32, PIB32 TF, PIB32 TR: 640 - 720 mm <sup>2</sup> /s (100°C) PIB80, PIB80 TF, PIB80 TR: 1450 – 1700 mm <sup>2</sup> /s (100°C) PIB90 : 1900 - 2100 °C mm <sup>2</sup> /s (100°C) PIB120, PIB120 TF, PIB120 TR: 2300 – 2700 mm <sup>2</sup> /s (100°C) PIB121, PIB121 TR: 2900 - 3200 mm <sup>2</sup> /s (100°C) PIB122, PIB122 TF, PIB122 TR: 3000 - 3400 mm <sup>2</sup> /s (100°C) PIB126, PIB126 TF, PIB126 TR: 3900 – 4200 mm <sup>2</sup> /s (100°C) PIB128, PIB128 TF, PIB128 TR: 4000 – 4700 mm <sup>2</sup> /s (100°C) PIB128KL, PIB128KL TR: 4000 – 4700 mm <sup>2</sup> /s (100°C) PIB240, PIB240 TF, PIB240 TR, PIB240KL TR: 11000 – 14000 mm <sup>2</sup> /s (100°C)

### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : No additional information available

#### 11.2.2. Other information

Other information : Likely routes of exposure: ingestion, inhalation, skin and eye

## SECTION 12: Ecological information

### 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified (Based on available data, the classification criteria are not met)

Hazardous to the aquatic environment, long-term (chronic) : Not classified (Based on available data, the classification criteria are not met)

### 12.2. Persistence and degradability

Polyisobutene (PIB) (9003-27-4)	
Persistence and degradability	Not established.

### 12.3. Bioaccumulative potential

Polyisobutene (PIB) (9003-27-4)	
Bioaccumulative potential	Not established.

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

Polyisobutene (PIB) (9003-27-4)	
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

Additional information : Avoid release to the environment.

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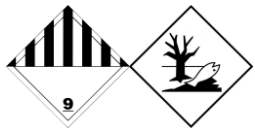




### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

- Regional legislation (waste) : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
Product/Packaging disposal recommendations : Consult an expert on waste disposal or treatment. Dispose of in a safe manner in accordance with local/national regulations.  
Ecology - waste materials : Avoid release to the environment.

### SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number or ID number</b>				
UN 3257	UN 3257	UN 3257	UN 3257	UN 3257
<b>14.2. UN proper shipping name</b>				
ELEVATED TEMPERATURE LIQUID, N.O.S.	ELEVATED TEMPERATURE LIQUID, N.O.S.	Elevated temperature liquid, n.o.s.	ELEVATED TEMPERATURE LIQUID, N.O.S.	ELEVATED TEMPERATURE LIQUID, N.O.S.
<b>Transport document description</b>				
UN 3257 ELEVATED TEMPERATURE LIQUID, N.O.S. (Polyisobutylene), 9, III, (D), ENVIRONMENTALLY HAZARDOUS	UN 3257 ELEVATED TEMPERATURE LIQUID, N.O.S. (Polyisobutylene), 9, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS	UN 3257 Elevated temperature liquid, n.o.s. (Polyisobutylene), 9, ENVIRONMENTALLY HAZARDOUS	UN 3257 ELEVATED TEMPERATURE LIQUID, N.O.S. (Polyisobutylene), 9, III, ENVIRONMENTALLY HAZARDOUS	UN 3257 ELEVATED TEMPERATURE LIQUID, N.O.S. (Polyisobutylene), 9, III, ENVIRONMENTALLY HAZARDOUS
<b>14.3. Transport hazard class(es)</b>				
9	9	9	9	9
				
<b>14.4. Packing group</b>				
III	III	Not applicable	III	III
<b>14.5. Environmental hazards</b>				
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes, when transported at elevated temperature ( $\Rightarrow$ 100°C).	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes
Transport at temperature below 100°C: Not regulated for all modes of transport.				

#### 14.6. Special precautions for user

- Special transport precautions : The information about transport regulations as supplied herein does not cover all technical and operational requirements and, therefore, can not be considered exhaustive. Please check out the guidelines from the regulations of the National Road and Rail organization, International Maritime Organisation (IMO) and the International Air Transport Association (IATA) before transporting the product. The transporting company is responsible for compliance with the laws, regulations and other rules as may apply to the transport of the material.

#### Overland transport

- Classification code (ADR) : M9  
Special provisions (ADR) : 274, 643, 668  
Limited quantities (ADR) : 0  
Excepted quantities (ADR) : E0  
Packing instructions (ADR) : P099, IBC99



# Polyisobutene (PIB)

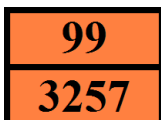
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Portable tank and bulk container instructions (ADR) : T3  
Portable tank and bulk container special provisions (ADR) : TP3, TP29

Tank code (ADR) : LGAV  
Tank special provisions (ADR) : TU35, TC7, TE6, TE14, TE18, TE24  
Vehicle for tank carriage : AT  
Transport category (ADR) : 3  
Special provisions for carriage - Bulk (ADR) : VC3  
Hazard identification number (Kemler No.) : 99  
Orange plates :



Tunnel restriction code (ADR) : D

### Transport by sea

Special provisions (IMDG) : 232, 274  
Packing instructions (IMDG) : P099  
IBC packing instructions (IMDG) : IBC01  
Tank instructions (IMDG) : T3  
Tank special provisions (IMDG) : TP3, TP29  
EmS-No. (Fire) : F-A  
EmS-No. (Spillage) : S-P  
Stowage category (IMDG) : A  
Stowage and handling (IMDG) : SW5  
Flash point (IMDG) : above 100°C  
Properties and observations (IMDG) : Any liquid which is transported at or above 100°C but below its flashpoint. May cause fire if in contact with combustible material due to extreme temperature.

### Air transport

PCA Excepted quantities (IATA) : E0  
PCA Limited quantities (IATA) : Forbidden  
PCA limited quantity max net quantity (IATA) : Forbidden  
PCA packing instructions (IATA) : Forbidden  
PCA max net quantity (IATA) : Forbidden  
CAO packing instructions (IATA) : Forbidden  
CAO max net quantity (IATA) : Forbidden  
ERG code (IATA) : 9L

### Inland waterway transport

Classification code (ADN) : M9  
Special provisions (ADN) : 274, 643, 668  
Limited quantities (ADN) : 0  
Excepted quantities (ADN) : E0  
Carriage permitted (ADN) : T  
Equipment required (ADN) : PP  
Number of blue cones/lights (ADN) : 0

### Rail transport

Classification code (RID) : M9  
Special provisions (RID) : 274, 643, 668  
Limited quantities (RID) : 0  
Excepted quantities (RID) : E0  
Packing instructions (RID) : P099, IBC99  
Portable tank and bulk container instructions (RID) : T3  
Portable tank and bulk container special provisions (RID) : TP3, TP29  
Tank codes for RID tanks (RID) : LGAV  
Special provisions for RID tanks (RID) : TU35, TE6, TE14  
Transport category (RID) : 3  
Special provisions for carriage – Bulk (RID) : VC3

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Special provisions for carriage - Loading, unloading and handling (RID) : CW17, CW31

Hazard identification number (RID) : 99

### 14.7. Maritime transport in bulk according to IMO instruments

Product name: POLY(+4)ISOBUTYLENE

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

##### REACH Annex XVII (Restriction List)

Not listed on REACH Annex XVII

##### REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Not listed on the REACH Candidate List

##### PIC Regulation (Prior Informed Consent)

Not listed on the PIC list (Regulation EU 649/2012)

##### POP Regulation (Persistent Organic Pollutants)

Not listed on the POP list (Regulation EU 2019/1021)

##### Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

##### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

##### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Listed on the Canadian DSL (Domestic Substances List)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the Japanese ENCS (Existing New Chemical Substances) inventory

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Listed on the NCI (Vietnam - National Chemical Inventory)

#### Germany

Water hazard class (WGK) : Not classified according to Regulation Governing Systems for Handling Substances Hazardous to Waters (AwSV).

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

#### Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed

SZW-lijst van mutagene stoffen : The substance is not listed

SZW-lijst van reprotoxische stoffen – Borstvoeding : The substance is not listed

SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : The substance is not listed

SZW-lijst van reprotoxische stoffen – Ontwikkeling : The substance is not listed

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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### SECTION 16: Other information

Indication of changes			
Section	Changed item	Change	Comments
14.5	Environmental hazards	Modified	
14.6	Special precautions for user	Modified	

Other information : None.

Braskem - SDS\_EU (modified 221026)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. It warns that the handling of any chemical substance requires the previous knowledge of its hazards for the user. It is up to the user of the product company providing this SDS to and promote the training of its employees about possible risks come upon of the product. The information contained herein is not absolute, but only general information on the use of the chemical and indication of safety and security measures.