

Polybutene

Safety Data Sheet

according to Regulation (EC) No. 453/2010 Revision date: 05/08/2020

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

1.1. Product identifier

Product form : Substance,

EC index no : Not applicable EC no : Not applicable CAS No : 9003-29-6 REACH registration No : exempt Type of product : Polymer Product group : Trade product

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Manufacture of substances

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

TKB TRADING, LLC

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

Classification according to Directive 67/548/EEC or 1999/45/EC

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

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.1. Substance

Substance type : Polymer

Name : Polymer with 2-methyl-1-propene, Copolymer of isobutylene and butene

CAS No : 9044-17-1, also registered under CAS number 9003-29-6

EC no : Not applicable EC index no : Not applicable

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Name	Product identifier	%	Classification according to Directive 67/548/EEC
Polymer with 2-methyl-1-propene	CAS Number 9044-17-1	100	Not classified
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Polymer with 2-methyl-1-propene	CAS Number 9044-17-1	100	Not classified

This product is also registered under CAS number 9003-29-6

Full text of R- and H-phrases: see section 16

3.2. Mixture

Not applicable

SECTION 4: First aid measures

First-aid measures after ingestion

4.1. Description of first aid measures

First-aid measures after inhalation : Remove victim to fresh air. In case of irregular breathing or respiratory arrest provide artificial

respiration. Seek medical advice.

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.

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. Seek medical advice.

: Do not induce vomiting. Drain stomach by gastric lavage under qualified medical supervision.

Immediately get medical attention.

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

Symptoms/injuries after inhalation : The product decreases available oxygen, causes suffocation.

Symptoms/injuries after skin contact : Hot material can cause burns. Symptoms/injuries after eye contact : Hot material can cause burns.

Symptoms/injuries after ingestion : Ingestion may cause nausea and vomiting. Central nervous system depression. Convulsions.

Death.

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

In case of burn skin, 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 : Water spray, dry chemical, foam, carbon dioxide.

Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Fire hazard : None known. Explosion hazard : None known.

Reactivity in case of fire : Upon combustion CO and CO2 are formed.

5.3. Advice for firefighters

Firefighting instructions : Cool closed containers exposed to fire with water spray.

Protective equipment for firefighters : In case of fire: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Wear protective clothing as described in Section 8 of this safety data sheet. Wear suitable

protective clothing.

Emergency procedures : Stop leak if safe to do so. stay away from low ground with wind on your back. Clean up even

minor leaks or spills if possible without unecessary risk.

6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing. In case of fire: Wear self-contained breathing apparatus.

Emergency procedures : Eliminate leaks immediately. stay away from low ground with wind on your back. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

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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.

6.3. Methods and material for containment and cleaning up

For containment : Eliminate leaks immediately. Ventilate affected area.

Methods for cleaning up : Eliminate leaks immediately, apply water mist to increase dispersion rate. Provide adequate

ventilation.

6.4. Reference to other sections

refer to section 8. For disposal of residues refer to section 13: Disposal considerations".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : product shall only used by fully trained professional users that are knowledgeable on all hazards

posed by it. Use only in well-ventilated areas. In case of insufficient ventilation, wear suitable

respiratory equipment. Avoid contact with skin and eyes.

Handling temperature : <= 120 °C Heating is not required or recommended for processing

Hygiene measures : Handle in accordance with good industrial hygiene and safety practices. Do not eat, drink or

smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Provide adequate ventilation.

Storage conditions : Keep container tightly closed. Store in a well-ventilated place. Keep cool. Bulk storage does not

require any special measure. If product is held heated above 60°C the use of nitrogen blanket is

recommended.

Incompatible products : Strong acids. Oxidizing agents, strong. Peroxides. Chlorates.

Incompatible materials : None known.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL : No significant hazards.

8.2. Exposure controls

Appropriate engineering controls : Provide 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.

Personal protective equipment : Gloves. Protective goggles. Protective clothing.



Hand protection : Wear suitable gloves tested to EN374.

Eye protection : Wear chemical goggles if material is handled hot. Not required for normal conditions of use. DIN

EN 166.

Skin and body protection : When skin contact is possible, protective clothing including gloves, apron, sleeves, boots, head

and face protection must be worn.

Respiratory protection : In case of inadequate ventilation wear respiratory protection. half-mask with filter according to

EN 149.

SECTION 9: Physical and chemical properties

Relative evaporation rate (butylacetate=1)

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Clear, colorless liquid.

Molecular mass Mn : 250 – 6.000 g/mol

Colour : colourless.

Odour : No data available

Odour threshold : No data available

pH : not applicable

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: not applicable

Melting point : No data available
Freezing point : No data available
Boiling point : No data available

Flash point : >100 °C (Polybut X2) >180 °C (Polybut 1800)

Self ignition temperature : No data available

Decomposition temperature : > 150 °C

Flammability (solid, gas) : No data available
Vapour pressure : No data available
Relative vapour density at 20 °C : No data available

Relative density : Average 0,85 g/cm³ (water =1)

Solubility: Water: ≤ 0,1 %Log Pow: No data availableViscosity, dynamic: No data availableExplosive properties: Not explosive.Oxidising properties: Not oxidizing.Explosive limits: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

May react with strong acids or strong oxidizing such as chlorates and peroxides.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Strong acid. Strong oxidizing agents.

10.6. Hazardous decomposition products

Heating this product up 260°C may cause rapid depolymerization with production of extremely flammable isobutene vapors. Thermal combustion may release carbon monoxide and dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
Specific target organ toxicity (single : Not classified

exposure)

Specific target organ toxicity (repeated

exposure)

: Not classified

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Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Butene, polymer with 2-methyl-1-propene (9044-17-1)		
LC50 fishes 1	> 1000 mg/l 96 hours (similar material)	
EC50 Daphnia 1	> 1000 48 hours (similar material)	

12.2. Persistence and degradability

Butene, polymer with 2-methyl-1-propene (9044-17-1)		
Persistence and degradability	Product is not easily biodegradable.	

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Butene, polymer with 2-methyl-1-propene (9044-17-1)

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

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

12.6. Other adverse effects

: This product is not expected to move rapidly on water flows/surface due the high viscosity and very low solubility

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Dispose of contents/container to comply with applicable local, national and international

regulations.

Waste disposal recommendations : Consult the appropriate local waste disposal expert about waste disposal.

Additional information : Do not cut, grind, drill, weld, reuse or dispose off containers unless adequate precautions are

taken against these hazards.

SECTION 14: Transport information

14.1. UN-Number

ADR, AND, IMDG, IATA : Void

14.2. UN proper shipping name

ADR, AND, IMDG, IATA : Void

14.3. Transport hazard class(es)

ADR, AND, IMDG, IATA : Void

Class

14.4. Packing group

ADR, AND, IMDG, IATA : Void

14.5. Environmental hazards

Marine pollutant : No

14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

UN 'Model Regulation' : Void

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SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Contains no REACH candidate substance

Other information, restriction and prohibition

regulations

: Compliance with following regulations: Regulation (EC) 1907/2006 as amended. Regulation (EC) 1272/2008 as amended. Directive 1999/45/EC as amended. Directive 67/548/EEC as amended.

Seveso Information

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

CSA has not been established

SECTION 16: Other information

Sources of Key data : MSDS. CSR - Chemical Safety Report.

Abbreviations and acronyms : CAS - Chemical Abstracts Service. CLP - Classification, Labelling and Packaging. CSR - Chemical Safety Report. EC - European Community. EEC - European Economic Community. Overland

transport (ADR). STEL- Short-Term Exposure Limit . REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals. SDS - Safety Data Sheet . PBT - Persistent, Bioaccumulative and Toxic substance. PEL- Permissible Exposure Level. TLV- Threshold Limit Value. TWA- Time Weighted Average. vPvB - Very Persistent and Very Bioaccumulative. NLP- No

Longer Polymer.

Other information : The regulatory information is based on the available information for CAS No. 9044-17-1. This material is equal in composition to CAS 9003-29-6 and as such may be described as CAS 9003-

29-6. This material consist more than 50% (w/w) of polymer molecules with more than 3 monomer unit and less than 50% of polymer molecules with the same molecular weight.

SDS EU (REACH Annex II)

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

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