

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

1.1 Product identifier

Product Form : Substance
Product Name : SOLTEX POLYBUTENES; PB6, PB8, PB10, PB12, PB16, PB18, PB20, PB24,
PB24(Kosher) PB32, PB32(Kosher), PB120C, PB122, PB124, PB128
CAS-No. : 9003-27-4
REACH Registration -No. : 2-methylpropene (EC No.204-066-3, CAS No.115-11-7): 01-2119456616-32-0055
butene, mixed isomers (EC No.246-689-3, CAS No.25167-67-3): 01-2119457401-46-0010

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

1.2.1. Recommended use

Polymer.

1.3 Details of the supplier of the safety data sheet

Company

Soltex, Inc. (Synthetic Oils & Lubricants of Texas)
4 Waterway Square Place, Suite 275
The Woodlands, TX 77380
(281)-587-0900
soltexinc.com

1.4 Emergency telephone number

Emergency number : (800)-424-9300 (CHEMTREC); (281)-587-0900 (Other Safety Information)
See section 16.6 for the list of telephone numbers of poison centers in the European Economic Area.

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

In accordance with Regulation (EC) No. 1272/2008 (CLP) this product is not classified as hazardous.

2.2 Label elements

Not applicable.

2.3 Other hazards

No other hazards known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

Not applicable.

3.2 Substance

CAS/EC and EINECS Reg.number	Chemical name of the substance	Concentration Classification
9003-27-4	Polyisobutylene (Polyisobutene) (100%)	Not classified.

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.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

4.1.2 Inhalation

Remove to fresh air and call for medical help if respiratory irritation develops or if breathing becomes difficult.

4.1.3 Skin contact

Wash with soap and rinse with water for several minutes. Get medical attention immediately if irritation occurs.

4.1.4 Eye contact

Immediately wash affected eyes for at least 15 minutes under pure running water with eyelids held open. Get medical attention immediately if irritation occurs.

SOLTEX POLYBUTENES; PB6, PB8, PB10, PB12, PB16, PB18, PB20, PB24, PB24(Kosher), PB32, PB32(Kosher), PB120C, PB122, PB124, PB128

Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

4.1.5 Ingestion

Wash mouth with water and and call physician. Do not induce vomiting. Seek medical attention. Do not give anything by mouth to an unconscious or convulsing person.

4.2 Most important symptoms and effects, both acute and delayed

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 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: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

5.1.1 Suitable extinguishing media

Foam, water spray (fog), carbon dioxide, dry chemicals.

5.1.2 Extinguishing media which must not be used for safety reasons

None known.

5.2 Special hazards arising from the substance or mixture

At high temperature, the product may decompose to monomers and form flammable vapours (butene monomers). Vapours may accumulate in low areas. Vapours may cause fire. Decomposition products may include carbon dioxide and carbon monoxide.

5.3 Advice for firefighters

Fire fighters should wear proper protective equipment with self-contained breathing apparatus.

5.4 Specific methods

Not available.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Evacuate surrounding areas. Do not breathe vapour. Wear personal protective equipment and appropriate respirator.

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.

6.1.2. For emergency responders

Protective equipment	: Wear suitable protective clothing. For further information refer to section 8: "Exposure controls/personal protection".
----------------------	---

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 materials 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.

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".

SOLTEX POLYBUTENES; PB6, PB8, PB10, PB12, PB16, PB18, PB20, PB24, PB24(Kosher), PB32, PB32(Kosher), PB120C, PB122, PB124, PB128

Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 7: HANDLING AND STORAGE

7.1 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. 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

Provide adequate ventilation. Store tightly closed in a dry, cool and well-ventilated place. Bulk storage does not require any special measure. Incompatible with strong acids and strong oxidizing agents.

7.3 Specific end use(s)

Not available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Not available.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Use adequate ventilation to keep airborne concentration low. When using, do not eat, drink or smoke. Keep away from food, drink and animal feeding stuffs. Wash hands before break and at the end of workday.

8.2.2 Individual protection measures

8.2.2.1 Respiratory protection

Use a respirator if the ventilation is not adequate.

8.2.2.2 Hand protection

Gloves. Nitrile rubber.

8.2.2.3 Eye/face protection

Safety goggles with side shields are recommended.

8.2.2.4 Skin protection

Suitable protective clothing.

8.2.3 Environmental exposure controls

Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Clear colorless, or pale yellow, tacky semi-solid/liquid resin or rubberlike
Odour	Mild, Hydrocarbon
Odour threshold	Not available
pH	Not available
Melting point/freezing point	Not available
Initial boiling point and boiling range	Not available
Flash point	>120°C (>248°F)
Evaporation rate	Not available Not
Flammability (solid, gas)	available
Explosive properties	
Lower explosion limit	Not available
Upper explosion limit	Not available
Vapour pressure	< 0.001 kPa (0.01 mm Hg)
Vapour density	Not available
Specific gravity	0.83-0.91

SOLTEX POLYBUTENES; PB6, PB8, PB10, PB12, PB16, PB18, PB20, PB24, PB24(Kosher), PB32, PB32(Kosher), PB120C, PB122, PB124, PB128

Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Solubility(ies)	
Water solubility	Insoluble
Fat solubility (solvent - oil to be specified)	Not available
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Decomposes
Decomposition temperature	Not available
Viscosity	4.5-4900 cSt @100°C(212°F)
Explosive properties	Not available
Oxidising properties	Not available
Other information	Not available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Hazardous reactions will not occur under normal conditions.

10.2 Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3 Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4 Conditions to avoid

Direct sunlight, extremely high or low temperatures, and incompatible materials.

10.5 Incompatible materials

Strong acids and strong oxidizing agents.

10.6 Hazardous decomposition products

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

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

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

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Acute Aquatic toxicity

Not classified (Based on available data, the classification criteria are not met)

Chronic Aquatic Toxicity

Not classified (Based on available data, the classification criteria are not met)

12.2 Persistence and degradability

Biodegradation

Non biodegradable. High persistence.

SOLTEX POLYBUTENES; PB6, PB8, PB10, PB12, PB16, PB18, PB20, PB24, PB24(Kosher), PB32, PB32(Kosher), PB120C, PB122, PB124, PB128

Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Not available.

12.5 Results of PBT and vPvB assessment

Polyisobutene (CAS#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 Other adverse effects

Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods


Incinerate in a chemical incinerator equipped with an afterburner and scrubber.

Follow relevant local, states and federal laws and regulations. Do not contaminate any sewers waterways, lakes, ponds, streams, rivers or underground water suppliers etc.


SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.


14.1. In Accordance with ADR

Proper Shipping Name	: ELEVATED TEMPERATURE LIQUID, N.O.S.	
Hazard Class	: 9	
Identification Number	: UN3257	
Label Codes	: 9	
Packing Group	: III (D)	
ERG Number	: 128	
Environmental Hazards	: Yes, when transported at elevated temperature ($\geq 100^{\circ}\text{C}$)	
Transport document description	: UN 3257 ELEVATED TEMPERATURE LIQUID, N.O.S. (Polyisobutylene), 9, III, (D)	


14.2. In Accordance with IMDG

Proper Shipping Name	: ELEVATED TEMPERATURE LIQUID, N.O.S.	
Hazard Class	: 9	
Identification Number	: UN3257	
Label Codes	: 9	
Packing Group	: III	
EmS-No. (Fire)	: F-A	
EmS-No. (Spillage)	: S-P	
Environmental Hazards	: Yes, when transported at elevated temperature ($\geq 100^{\circ}\text{C}$). Marine pollutant : No	
Transport document description	: UN 3257 ELEVATED TEMPERATURE LIQUID, N.O.S. (Polyisobutylene), 9, III	

14.3. In Accordance with IATA

Proper Shipping Name	: ELEVATED TEMPERATURE LIQUID, N.O.S.	
Hazard Class	: 9	
Identification Number	: UN3257	
Label Codes	: 9	
ERG Code (IATA)	: 9L	
Environmental Hazards	: Yes	
Transport document description	: UN 3257 Elevated temperature liquid, n.o.s. (Polyisobutylene), 9, III	

14.4. In Accordance with ADN

Proper Shipping Name	: ELEVATED TEMPERATURE LIQUID, N.O.S.	
Hazard Class	: 9	
Identification Number	: UN3257	
Label Codes	: 9	
Packing Group	: III	
Environmental Hazards	: Yes, when transported at elevated temperature ($\geq 100^{\circ}\text{C}$)	
Transport document description	: UN 3257 ELEVATED TEMPERATURE LIQUID, N.O.S. (Polyisobutylene), 9, III	

SOLTEX POLYBUTENES; PB6, PB8, PB10, PB12, PB16, PB18, PB20, PB24, PB24(Kosher), PB32, PB32(Kosher), PB120C, PB122, PB124, PB128

Safety Data Sheet
According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

14.5. In Accordance with RID

Proper Shipping Name	: ELEVATED TEMPERATURE LIQUID, N.O.S.
Hazard Class	: 9
Identification Number	: UN3257
Label Codes	: 9
Packing Group	: III
Environmental Hazards	: Yes, when transported at elevated temperature (≥ 100°C)
Transport document description	: UN 3257 ELEVATED TEMPERATURE LIQUID, N.O.S. (Polyisobutylene), 9, III



Remarks : When this material is shipped at temperature <100°C(<212°F) this material is NOT regulated for transport.

14.6 Special precautions for users

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 Land Transport Agency (ANTT), 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
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
EAC code	: 2Y

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

SOLTEX POLYBUTENES; PB6, PB8, PB10, PB12, PB16, PB18, PB20, PB24, PB24(Kosher), PB32, PB32(Kosher), PB120C, PB122, PB124, PB128

Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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
Special provisions for carriage - Loading, unloading and handling (RID)	: CW17, CW31
Hazard identification number (RID)	: 99

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

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
Polyisobutene (PIB) is not on the REACH Candidate List
Polyisobutene (PIB) is not on the REACH Annex XIV List
Polyisobutylene is not subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.
Polyisobutylene is not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

15.1.2 National regulations

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on the Canadian DSL (Domestic Substances List)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)

Germany

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

SOLTEX POLYBUTENES; PB6, PB8, PB10, PB12, PB16, PB18, PB20, PB24, PB24(Kosher), PB32, PB32(Kosher), PB120C, PB122, PB124, PB128

Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Netherlands

SZW-lijst van kankerverwekkende stoffen	: The substance is not listed
SZW-lijst van mutagene stoffen	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: The substance is not listed

15.2 Chemical safety assessment

No additional information available.

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision Date	: 01/26/2023
Other Information	: This document has been prepared in according to regulation (EU) No. 2015/830 and regulation (EC) No. 1272/2008.

16.1 Additions, Deletions, Revisions
Version 1.5

Other information	: This material is very similar in composition to CAS 9044-17-1 and as such may be described as CAS 9044-17-1.
--------------------------	--

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.

EU GHS SDS