SAFETY DATA SHEET



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Polyisoprene-3.4 Standard

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

_	
1.1 Product identifier	
Product name	: Polyisoprene-3.4 Standard
EC number	: Not available.
CAS number	: 9003-31-0
Part no.	: PSS-PIT12K, PSS-PIT1K, PSS-PIT34K, PSS-PIT50K, PSS-PIT75K
Chemical formula	: (C₅H₀)x
1.2 Relevant identified use	es of the substance or mixture and uses advised against
Identified uses	: Reagents and Standards for Analytical Chemistry Laboratory Use PSS-PIT12K PI-3.4, nominal Mw 12,000 g/mol, 1 g PSS-PIT1K PI-3.4, nominal Mw 1,000 g/mol, 1 g PSS-PIT34K PI-3.4, nominal Mw 34,000 g/mol, 1 g PSS-PIT50K PI-3.4, nominal Mw 50,000 g/mol, 1 g PSS-PIT75K PI-3.4, nominal Mw 75,000 g/mol, 1 g
Uses advised against	: None known.
1.3 Details of the supplier	of the safety data sheet
Agilent Technologies Deuts Hewlett-Packard-Str. 8 76337 Waldbronn Germany 0800 603 1000	schland GmbH
e-mail address of person responsible for this SDS	: pdl-msds_author@agilent.com
1.4 Emergency telephone	number

Emergency telephone : CHEMTREC®: +(44)-870-8200418 number (with hours of operation)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

 Product definition
 : Mono-constituent substance

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

 Not classified.

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements		
Signal word	:	No signal word.
Hazard statements	1	No known significant effects or critical hazards.
Precautionary statements		
Prevention	1	Not applicable.
Response	:	Not applicable.
Storage	:	Not applicable.

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SECTION 2: Hazards identification Disposal : Not applicable.

Supplemental label elements	: Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.

Special packaging requirements

Tactile warning of
danger: Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB:according to Regulation (EC) No. 1907/2006, Annex XIII:	: PBT	Р	В	Т	vPvB	vP	vB	
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Other hazards which do	: None know	n.						

Other hazards which do : None kn not result in classification

SECTION 3: Composition/information on ingredients

2 1	Substances	
J . I	Jubstances	

: Mono-constituent substance

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
1,3-Butadiene, 2-methyl-, homopolymer	CAS: 9003-31-0	100	Not classified.	-	[1]
			See Section 16 for the full text of the H statements declared above.		

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

Туре

[1] Constituent

Occupational exposure limits, if available, are listed in Section 8.

: 12/06/2023

SECTION 4: First aid measures

4.1 Description of first aid measures

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Eye contact	:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	:	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training.

: No previous validation

Version :1

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SECTION 4: First aid measures

4.2 Most important symptoms and effects, both acute and delayed				
Potential acute health	<u>effects</u>			
Eye contact	: No known significant effects or critical hazards.			
Inhalation	: No known significant effects or critical hazards.			
Skin contact	: No known significant effects or critical hazards.			
Ingestion	: No known significant effects or critical hazards.			
Over-exposure signs/s	symptoms			
Eye contact	: No specific data.			
Inhalation	: No specific data.			
Skin contact	: No specific data.			
Ingestion	: No specific data.			
4.3 Indication of any im	mediate medical attention and special treatment needed			
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. 			
Specific treatments	: No specific treatment.			

SECTION 5: Firefighting measures

5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , alcohol-resistant foam or water spray (fog).
Unsuitable extinguishing media	: None known.

5.2 Special hazards arising from the substance or mixture

5.2 Special hazarus ansing	
Hazards from the substance or mixture	: No specific fire or explosion hazard.
Hazardous combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide
5.3 Advice for firefighters	
Special precautions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire- fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1	Personal	precautions.	protective eq	uipment and	emergency	procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

SECTION 6: Accidental release measures

6.2 Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
6.3 Methods and material f	or containment and cleaning up
Methods for cleaning up	: Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.
6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

direct sunli (see Section ready for u upright to p containment	cordance with local regulations. Store in original container protected from ght in a dry, cool and well-ventilated area, away from incompatible materials on 10) and food and drink. Keep container tightly closed and sealed until se. Containers that have been opened must be carefully resealed and kept prevent leakage. Do not store in unlabelled containers. Use appropriate int to avoid environmental contamination. See Section 10 for incompatible efore handling or use.
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7.3 Specific end use(s)	
Recommendations	: Industrial applications, Professional applications
Industrial sector specific solutions	: Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

Biological exposure indices

None known.

Recommended monitoring procedures Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

SECTION 8: Exposure controls/personal protection

No PNECs available

8.2 Exposure controls				
Appropriate engineering controls	general ventilation should be sufficient to con minants.	ntrol worker exposure to airborne		
Individual protection meas				
Hygiene measures	h hands, forearms and face thoroughly after h g, smoking and using the lavatory and at the e opriate techniques should be used to remove a contaminated clothing before reusing. Ensu- ers are close to the workstation location.	end of the working period. potentially contaminated clothing.		
Eye/face protection	y eyewear complying with an approved stands sement indicates this is necessary to avoid ex s or dusts. If contact is possible, the following seessment indicates a higher degree of prote ls.	posure to liquid splashes, mists, protection should be worn, unless		
Skin protection				
Hand protection	nical-resistant, impervious gloves complying v at all times when handling chemical products ssary.			
Body protection	nal protective equipment for the body should rmed and the risks involved and should be ap ing this product.			
Other skin protection	ppriate footwear and any additional skin prote d on the task being performed and the risks ir alist before handling this product.			
Respiratory protection	d on the hazard and potential for exposure, se priate standard or certification. Respirators r atory protection program to ensure proper fitt cts of use.	nust be used according to a		
Environmental exposure controls	sions from ventilation or work process equipm comply with the requirements of environmenta s, fume scrubbers, filters or engineering modi e necessary to reduce emissions to acceptab	al protection legislation. In some fications to the process equipment		

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance		
Physical state	1	Solid.
Colour	1	Not available.
Odour	1	Not available.
Odour threshold	1	Not available.
Melting point/freezing point	:	Not available.
Initial boiling point and boiling range	1	Not available.
Flammability	:	Not available.
Upper/lower flammability or explosive limits	:	Not applicable.
Flash point	:	Not applicable.
Auto-ignition temperature	:	Not applicable.

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SECTION 9: Physical and chemical properties

Decomposition temperature	: Not available.
рН	: Not available.
Viscosity	: Not applicable.
Solubility(ies)	: Not available.
Partition coefficient: n- octanol/water	: Not available.
Vapour pressure	: Not available.
Evaporation rate	: Not available.
Relative density	: Not available.
Density	: 0.92 g/cm ³ [20°C]
Vapour density	: Not applicable.
Explosive properties	: Not available.
Oxidising properties	: Not available.
Particle characteristics	
Median particle size	: Not available.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity		
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.	
10.2 Chemical stability	: The product is stable.	
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.	
10.4 Conditions to avoid	: No specific data.	
10.5 Incompatible materials	: May react or be incompatible with oxidising materials.	
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.	

SECTION 11: Toxicological information

11.1 Information on toxico <u>Acute toxicity</u> Not available.	logical effects
Acute toxicity estimates N/A	
Irritation/Corrosion	
Conclusion/Summary	: Not available.
<u>Sensitiser</u>	
Conclusion/Summary	: Not available.
Mutagenicity	
Conclusion/Summary	: Not available.
Carcinogenicity	
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2020/878 - Ireland Polyisoprene-3.4 Standard SECTION 11: Toxicological information **Conclusion/Summary** : Not available. **Reproductive toxicity Conclusion/Summary** : Not available. **Teratogenicity** : Not available. Conclusion/Summarv Specific target organ toxicity (single exposure) Not available. Specific target organ toxicity (repeated exposure) Not available. **Aspiration hazard** Not available. Information on likely : Not available. routes of exposure Potential acute health effects Inhalation : No known significant effects or critical hazards. Ingestion : No known significant effects or critical hazards. Skin contact : No known significant effects or critical hazards. : No known significant effects or critical hazards. **Eve contact** Symptoms related to the physical, chemical and toxicological characteristics Inhalation : No specific data. Ingestion : No specific data. Skin contact : No specific data. Eye contact : No specific data. Delayed and immediate effects as well as chronic effects from short and long-term exposure Short term exposure Potential immediate : Not available. effects **Potential delayed** : Not available. effects Long term exposure **Potential immediate** : Not available. effects : Not available. **Potential delayed** effects Potential chronic health effects : No known significant effects or critical hazards. General Carcinogenicity : No known significant effects or critical hazards. **Mutagenicity** : No known significant effects or critical hazards. : No known significant effects or critical hazards. **Reproductive toxicity** 11.2 Information on other hazards **11.2.1 Endocrine disrupting properties**

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB	
1,3-Butadiene, 2-methyl-, homopolymer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment mether	nods
Product	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.
Packaging	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	: This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No.	No.

Additional information

for user

14.6 Special precautions : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

: Not available. 14.7 Transport in bulk according to IMO instruments

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Not listed.

Label : Not applicable.

Other EU regulations

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

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SECTION 15: Regulatory information

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

assessment

Inventory list

Australia	: This material is listed or exempted.
Canada	: This material is listed or exempted.
China	: This material is listed or exempted.
Eurasian Economic Union	: Russian Federation inventory: This material is listed or exempted.
Japan	 Japan inventory (CSCL): This material is listed or exempted. Japan inventory (ISHL): This material is listed or exempted.
New Zealand	: This material is listed or exempted.
Philippines	: This material is listed or exempted.
Republic of Korea	: This material is listed or exempted.
Taiwan	: This material is listed or exempted.
Thailand	: This material is listed or exempted.
Turkey	: This material is listed or exempted.
United States	: This material is active or exempted.
Viet Nam	: This material is listed or exempted.
15.2 Chemical safety	: This product contains substances for which Chemical Safety Assessments might still

SECTION 16: Other information

✓ Indicates information that has changed from previously issued version.

be required.

Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.
	1272/2008]
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EUH statement = CLP-specific Hazard statement
	N/A = Not available
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Not classified.	

Full text of abbreviated H statements

Not applicable.

Full text of classifications [CLP/GHS]

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SECTION 16: Other information

Not applicable.	
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Notice to reader	

Notice to reader

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