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1. Identification of the substance and of the company

1.1 Product identifiers

Product name Dextran standard

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

Laboratory chemicals, Manufacture of substances Identified uses PSS-DXT180 - Dextran standard, nominal Mw 180 g/mol, 0.5 g PSS-DXT342 - Dextran standard, nominal Mw 342 g/mol, 0.5 g PSS-DXT504 - Dextran standard, nominal Mw 504 g/mol, 0.5 g PSS-DXT10K - Dextran standard, nominal Mw 10,000 g/mol, 0.5 g PSS-DXT130K - Dextran standard, nominal Mw 130,000 g/mol, 0.5 g PSS-DXT200K - Dextran standard, nominal Mw 200,000 g/mol, 0.5 g PSS-DXT20K - Dextran standard, nominal Mw 20,000 g/mol, 0.5 g PSS-DXT25K - Dextran standard, nominal Mw 25,000 g/mol, 0.5 g PSS-DXT320K - Dextran standard, nominal Mw 320,000 g/mol, 0.5 g PSS-DXT40K - Dextran standard, nominal Mw 40,000 g/mol, 0.5 g PSS-DXT5K - Dextran standard, nominal Mw 5,000 g/mol, 0.5 g PSS-DXT70K - Dextran standard, nominal Mw 70,000 g/mol, 0.5 g PSS-DXTB1.5M - Dextran broad/branched standard, nominal Mw1,500,000 g/mol, 1 g PSS-DXTB2M - Dextran broad/branched standard, nominal Mw 2,000,000 g/mol, 1 g PSS-MEDXTB2M - Dextran broad/branched membrane standard, nominal Mw 2,000,000 g/mol, 50 g PSS-MEDXTB70K - Dextran broad/branched membrane standard, nominal Mw 70,000 g/mol, 50 g

1.3 Details of the supplier of the safety data sheet

Company	PSS Polymer Standards Service GmbH
	In der Dalheimer Wiese 5
	D - 55120 Mainz

Technical phone	+49 6131 - 96239 - 0
Fax	+49 6131 - 96239 -11
Email	sds@pss-polymer.com

1.4 Emergency telephone number

24-hour emergency contact number: +1 872 5888271 (PSS)

2. Hazards identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008. This substance is not classified as dangerous according to Directive 67/548/EEC.

2.2 Label elements

The product does not need to be labelled in accordance with EC directives or respective national laws.

2.3 Other hazards

none

3. Composition / information on ingredients

3.1 Substances

Synonyms:	DXT
Formula:	[C ₆ H ₁₀ O ₅]n
CAS-No.:	9004-54-0

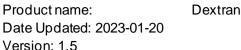
4. First aid measures

4.1 Description of first aid measures

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact





Version: 1.5 Page 2 of 5 Wash off with soap and plenty of water. In case of eye contact Flush eyes with water as a precaution. If swallowed Never give anything by mouth to an unconscious person. Rinse mouth with water. 4.2 Most important symptoms and effects, both acute and delayed To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. 4.3 Indication of any immediate medical attention and special treatment needed no data available 5. **Fire fighting measures** 5.1 Extinguishing media Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. 5.2 Special hazards arising from the substance or mixture Carbon oxides. 5.3 Advice for fire fighters Wear self-contained breathing apparatus for firefighting if necessary. 5.4 Further information no data available 6. Accidental release measures 6.1 Personal precautions, protective equipment and emergency procedures Avoid dust formation. Avoid breathing vapors, mist or gas. 6.2 Environmental precautions Do not let product enter drains. 6.3 Methods and materials for containment and cleaning up Sweep up and shovel. Keep in suitable, closed containers for disposal. 6.4 Reference to other sections For disposal see section 13. Handling and storage 7. 7.1 Precautions for safe handling Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection. 7.2 Conditions for safe storage, including any incompatibilities Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Hygroscopic; Store under inert gas. 7.3 Specific end use(s) no data available 8. Exposure controls / personal protection 8.1 Control parameters Components with workplace control parameters 8.2 Exposure controls Appropriate engineering controls General industrial hygiene practice. Personal protective equipment Eye/face protection Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of

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contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves must satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific workplace., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

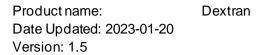
Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts is desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Form: solid	
Odour	no data available	
Odour Threshold	no data available	
рН	no data available	
Melting point/freezing point	no data available	
Initial boiling point and boiling	range no data available	
Flash Point	no data available	
Evaporation rate	no data available	
Flammability	no data available	
Upper/lower flammability or ex	plosive limits no data available	
Vapour pressure	no data available	
Vapour density	no data available	
Relative density	no data available	
Water solubility	no data available	
Partition coefficient: n- Octand	l/Water no data available	
Auto ignition temperature	no data available	
Decomposition temperature	no data available	
Viscosity	no data available	
Explosiveproperties	no data available	
Oxidizing properties	no data available	
9.2 Other safety information		
no data available		
10. Stability and reactivity		
10.1 Reactivity		
no data available		
10.2 Chemical stability		
no data available		
10.3 Possibility of hazardous rea no data available	Ctions	
10.4 Conditions to avoid		
no data available		
10.5 Incompatible materials		
Strong oxidizing agents		
10.6 Hazardous decomposition p	roducts	
Other decomposition products	s - no data available	





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11. Toxicological inform	nation
11.1 Information on toxic	cological effects
Acute toxicity	
no data available	
Skin corrosion/irrita	Ition
no data available	
Serious eye damage	e/eye irritation
no data available	
Respiratory or skin	sensitisation
no data available	
Germ cell mutageni	city
no data available	,
Carcinogenicity	
Carcinogenicity - rat -	Intraperitoneal
	tic by RTECS criteria. Skin and Appendages: Other: Tumors. Tumorigenic
Effects: Uterine tumo	
Carcinogenicity - mo	
	al tumorigenic agent by RTECS criteria. Liver: Tumors. Endocrine: Tumors.
	of this product present at levels greater than or equal to 0.1% is identified
	e or confirmed human carcinogen by IARC.
Reproductive toxici	ty
no data available	
	n toxicity - single exposure
no data available	
	n toxicity - repeated exposure
no data available	
Aspiration hazard	
no data available	
Potential health effe	
Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion	May be harmful if swallowed.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.
Signs and Sympton	
	owledge, the chemical, physical, and toxicological properties have not been
thoroughly investigat	
Additional Informati	
RTECS: Not available	
12. Ecological informat	ion
12.1 Toxicity	
no data available	
12.2 Persistence and dec	jradability
no data available	
12.3 Bioaccumulative po	tential
no data available	
12.4 Mobility in soil	
no data available	
12.5 Results of PBT and no data available	VP VD assessment
12.6 Other adverse effect	
	3
no data available	

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13. Disposal considerations				
13.1 Waste treatment methods				
Product				
Offer surplus and non-recyclabl	e solutions to a licensed dispo	salcompany.		
	Contaminated packaging			
Dispose of as unused product.				
14. Transport information				
14.1 UN number		14 74		
ADR/RID: -	IMDG: -	IATA: -		
14.2 UN proper shipping name				
ADR/RID: Not dangerous	poods			
0				
IATA: Not dangerous	5			
14.3 Transport hazard class(es)	-			
ADR/RID: -	IMDG: -	IATA: -		
14.4 Deckering group				
14.4 Packaging group ADR/RID: -	IMDG: -	IATA: -		
14.5 Environmental hazards				
ADR/RID: no	IMDG Marine pollutant: no	IATA: no		
14.6 Special precautions for user				
Further information				
no data available				
15. Regulatory information				
	with the requirements of Requ	lation (EC) No. 1907/2006		
This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. 15.1 Safety, health and environmental regulations/legislation specific for the substance or				
mixture				
no data available				
15.2 Chemical Safety Assessment				
no data available				
16. Other information				

WARRANTY

The information in this document is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product. PSS GmbH shall not be held liable for any damage resulting from handling or from contact with the above product.

DISCLAIMER

For R&D use only. Not for drug, household or other uses.