

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Reference number: D1342 Issue date: 10-2-2025 Revision date: 10-2-2025 Supersedes version of: 18-4-2018 Version: 3.0

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

1.1. Due duet identifieu	
<b>1.1. Product identifier</b>	
Product form	: Substance
Trade name	: Dextran Sulphate Sodium
EC-No.	: 618-471-1
CAS-No.	: 9011-18-1
Product code	: D1342
Formula (Override)	: $(C_6H_9O_5SO_3Na)_n$
Product group	: Raw material
1.2. Relevant identified uses of	the substance or mixture and uses advised against
1.2.1. Relevant identified uses	
Main use category	: Professional use
Industrial/Professional use spec	: For professional use only. Duchefa Biochemie B.V. products are intended only
	for "in vitro laboratory" research purposes.
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of th	e safety data sheet
Supplier	
Duchefa Biochemie B.V.	
A. Hofmanweg 71	
2031 BH Haarlem	
The Netherlands	
The Netherlands T +31(0)23-5319093, F +31(0)23-5318	027

 
 Emergency number
 : Supplier contact information: +31(0)23-5319093 (M-F 09:00-17:00) +31(0)6-30008100 (outside office hours)

# **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

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

## 2.2. Label elements

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

No labelling applicable

## 2.3. Other hazards

Contains no PBT and/or vPvB substances  $\geq$  0.1% assessed in accordance with REACH Annex XIII

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# **SECTION 3: Composition/information on ingredients**

## 3.1. Substances

Substance type	: Mono-constituent
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Name	Product identifier	%
	CAS-No.: 9011-18-1 EC-No.: 618-471-1	≤ 100

# 3.2. Mixtures

Not applicable

SECTION 4: First aid measures	
4.1. Description of first aid measu	ires
First-aid measures general First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion	<ul> <li>If you feel unwell, seek medical advice.</li> <li>Remove person to fresh air and keep comfortable for breathing.</li> <li>Wash skin with plenty of water.</li> <li>Rinse eyes with water as a precaution.</li> <li>Call a poison center or a doctor if you feel unwell.</li> </ul>
4.2. Most important symptoms an	d effects, both acute and delayed
Symptoms/effects after inhalation Symptoms/effects after skin contact	<ul> <li>None under normal conditions. Dust of the product, if present, may cause respiratory irritation after excessive inhalation exposure.</li> <li>None under normal conditions. Dust may cause irritation in skin folds or by</li> </ul>
Symptoms/effects after eye contact Symptoms/effects after ingestion	contact in combination with tight clothing. None under normal conditions. Dust from this product may cause eye irritation. None under normal conditions.

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

Treat symptomatically.

SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media Unsuitable extinguishing media	<ul><li>Dry chemical, CO2, or water spray or regular foam.</li><li>Do not use a heavy water stream.</li></ul>			
5.2. Special hazards arising from the	e substance or mixture			
Fire hazard Explosion hazard Hazardous decomposition products in case of fire	<ul> <li>No fire hazard.</li> <li>No direct explosion hazard.</li> <li>- COx SOx.</li> </ul>			
5.3. Advice for firefighters				
Firefighting instructions	: Prevent fire fighting water from entering the environment. Do not enter fire area without proper protective equipment, including respiratory protection.			
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.			

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SECTION 6: Accidental release measures			
6.1. Personal precautions, pro	tective equipment and emergency procedures		
General measures	: Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.		
6.1.1. For non-emergency personr	nel		
Protective equipment	: Wear suitable protective clothing.		
Emergency procedures	: Ventilate spillage area.		
6.1.2. For emergency responders			
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".		
Emergency procedures	: Evacuate unnecessary personnel.		
6.2. Environmental precaution	IS		
Avoid release to the environment.			
6.3. Methods and material for	containment and cleaning up		
For containment	: Using a clean shovel, put the material in a dry container and cover without compressing it.		
Methods for cleaning up	: Mechanically recover the product. Sweep up dry powder and dispose properly.		
Other information	: Dispose of materials or solid residues at an authorized site.		
6.4. Reference to other section	ns		

For further information refer to section 8.

SECTION 7: Handling and stor	age
7.1. Precautions for safe handling	J
Additional hazards when processed	: Not expected to present a significant hazard under anticipated conditions of normal use.
Precautions for safe handling	<ul> <li>Wear personal protective equipment. Ensure good ventilation of the work station. Handle in accordance with good industrial hygiene and safety procedures.</li> </ul>
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, i	ncluding any incompatibilities
Technical measures Storage conditions	<ul> <li>Keep in a cool, well-ventilated place away from heat.</li> <li>Store in a well-ventilated place. Keep container tightly closed. Store at room temperature.</li> </ul>
Packaging materials	: Store always product in container of same material as original container.
7.3. Specific end use(s)	

For professional use only. Duchefa Biochemie B.V. products are intended only for "in vitro laboratory" research purposes.

# 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

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#### 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 good ventilation of the work station.

#### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Wear recommended personal protective equipment.

#### 8.2.2.1. Eye and face protection

Eye protection			
Туре	Field of application	Characteristics	Standard
Safety glasses	Dust		EN 166

#### 8.2.2.2. Skin protection

#### Skin and body protection:

In case of possible repeated skin contact wear protective clothing

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0,11		EN ISO 374

#### 8.2.2.3. Respiratory protection

Respiratory protection			
Device	Filter type	Condition	Standard
Dust mask	Type P1	Dust protection	EN 143

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

#### **Environmental exposure controls:**

Avoid release to the environment.

# SECTION 9: Physical and chemical properties

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

Physical state	:	Solid
Colour	:	White to off-white.
Appearance	:	Powder.
Odour	:	Not available
Odour threshold	:	Not available
Melting point	:	Not available
Freezing point	:	Not applicable

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Boiling point	: Not available
Flammability	: Non flammable.
Explosive limits	: Not applicable
Lower explosion limit	: Not applicable
Upper explosion limit	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: Not available
pH	: 6 – 8
pH solution concentration	: 1 %
Viscosity, kinematic	: Not applicable
Solubility	: Water: 100 g/l (25°C)
Partition coefficient n-octanol/water (Log	: Not available
Kow)	
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: Not available
Relative vapour density at 20°C	: Not applicable
Particle size	: Not available

#### 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 under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

Strong oxidizers. Strong acids.

#### 10.6. Hazardous decomposition products

Thermal decomposition generates : - COx. - SOx.

# SECTION 11: Toxicological information **11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008** Acute toxicity (oral) : Not classified Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified Dextran Sulphate Sodium (9011-18-1) : 20600 mg/kg

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Skin corrosion/irritation	: Not classified pH: 6 – 8
Dextran Sulphate Sodium (9011-1	.8-1)
рН	6 - 8
Serious eye damage/irritation	: Not classified pH: 6 – 8
Dextran Sulphate Sodium (9011-1	.8-1)
рН	6 - 8
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Dextran Sulphate Sodium (9011-1	.8-1)
Viscosity, kinematic	Not applicable
Dextran Sulphate Sodium (9011-1	.8-1)
Viscosity, kinematic	Not applicable
11.2. Information on other haz	zards

#### **11.2.1. Endocrine disrupting properties**

Adverse health effects caused by endocrine disrupting properties

: The substance/mixture does not contain substance(s) 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 at a concentration equal to or greater than 0,1 %

## 11.2.2. Other information

No additional information available

SECTION 12: Ecological information		
12.1. Toxicity		
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long- term adverse effects in the environment.	
Hazardous to the aquatic environment, short-term (acute)	: Not classified	
Hazardous to the aquatic environment, long- term (chronic)	: Not classified	
12.2. Persistence and degradability		
No additional information available		

# 12.3. Bioaccumulative potential

No additional information available

## 12.4. Mobility in soil

No additional information available

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## 12.5. Results of PBT and vPvB assessment

## No additional information available

12.6. Endocrine disrupting propertie	25
Adverse effects on the environment caused by endocrine disrupting properties	: The substance/mixture does not contain substance(s) 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 at a concentration equal to or greater than 0,1 %.
12.7. Other adverse effects	

Additional information

: Avoid release to the environment

SECTION 13: Disposal considerations			
13.1. Waste treatment methods			
Regional waste regulation	: Disposal must be done according to official regulations.		
Waste treatment methods	: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container in accordance with licensed collector's sorting instructions.		
Sewage disposal recommendations	: Disposal must be done according to official regulations.		
Product/Packaging disposal	: Comply with applicable regulations for solid waste disposal. Disposal must be		
recommendations	done according to official regulations.		
Additional information	: Do not re-use empty containers.		

#### TTON ion

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ADR	IMDG	ΙΑΤΑ
14.1. UN number or ID	number	
Not applicable	Not applicable	Not applicable
14.2. UN proper shippi	ng name	
Not applicable	Not applicable	Not applicable
14.3. Transport hazard	class(es)	
Not applicable	Not applicable	Not applicable
14.4. Packing group		
Not applicable	Not applicable	Not applicable
14.5. Environmental ha	azards	
Not applicable	Not applicable	Not applicable
No supplementary inform	ation available	·

EN (English)

14.6. Special precautions for user

# **Overland transport**

Not applicable

Transport by sea

Not applicable

Air transport Not applicable

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# 14.7. Maritime transport in bulk according to IMO instruments

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

#### **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)**

Contains no substance(s) 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 2024/590)

#### 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

#### Germany

Water hazard class (WGK)	:	WGK 3, Highly hazardous to water (Classification according to AwSV).
Hazardous Incident Ordinance (12. BImSchV)	:	Is not subject to the Hazardous Incident Ordinance (12. BImSchV)

#### Netherlands

SZW-lijst van kankerverwekkende stoffen SZW-lijst van mutagene stoffen SZW-lijst van reprotoxische stoffen –	<ul><li>The substance is not listed</li><li>The substance is not listed</li><li>The substance is not listed</li></ul>
Borstvoeding SZW-lijst van reprotoxische stoffen –	: The substance is not listed
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

SECTION 16: Other information				
Indication of o	changes			
Section	Changed item	Change	Comments	
	Substance type	Added		

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Indication of changes				
Section	Changed item	Change	Comments	
1.1	Product group	Added		
1.1	Formula	Modified		
2.1	Adverse physicochemical, human health and environmental effects	Added		
4.1	First-aid measures for first aider	Added		
4.1	First-aid measures general	Added		
4.1	First-aid measures after skin contact	Modified		
4.1	First-aid measures after inhalation	Modified		
4.1	First-aid measures after ingestion	Modified		
4.1	First-aid measures after eye contact	Modified		
4.2	Symptoms/effects after skin contact	Added		
4.2	Symptoms/effects after inhalation	Added		
4.2	Symptoms/effects after ingestion	Added		
4.2	Symptoms/effects after eye contact	Added		
4.3	Other medical advice or treatment	Modified		
5.1	Unsuitable extinguishing media	Added		
5.2	Fire hazard	Added		
5.2	Explosion hazard	Added		
5.2	Hazardous decomposition products in case of fire	Modified		
5.3	Protection during firefighting	Modified		
5.3	Firefighting instructions	Modified		
6.1	Protective equipment	Added		
6.1	Emergency procedures	Added		
6.1	Emergency procedures	Added		
6.1	General measures	Modified		
6.3	For containment	Added		
6.3	Other information	Added		
6.3	Methods for cleaning up	Modified		
6.4	Reference to other sections (8, 13)	Added		
7.1	Additional hazards when processed	Added		
7.1	Hygiene measures	Added		
7.1	Precautions for safe handling	Modified		
7.2	Technical measures	Added		
7.2	Packaging materials	Added		
7.3	Specific end uses	Added		
8	Formula	Modified		

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Indication of changes				
Section	Changed item	Change	Comments	
8.2	Environmental exposure controls	Added		
8.2	Personal protective equipment	Added		
8.2	Appropriate engineering controls	Added		
8.2	Respiratory protection	Removed		
8.2	Eye protection	Removed		
8.2	Skin and body protection	Modified		
9	Flammability	Added		
9	Viscosity, kinematic	Added		
9	Freezing point	Added		
9	рН	Added		
9	Flash point	Added		
9	Concentration of the solution used for the pH measurement	Added		
9	Auto-ignition temperature	Added		
9	pH solution	Removed		
9	Colour	Modified		
9.1	Explosive limits (vol %)	Added		
10.1	Reactivity	Added		
10.3	Possibility of hazardous reactions	Added		
10.4	Conditions to avoid	Added		
10.6	Hazardous decomposition products	Modified		
12.1	Ecology - general	Added		
13.1	Product/Packaging disposal recommendations	Added		
13.1	Sewage disposal recommendations	Added		
13.1	Additional information	Added		
13.1	Regional waste regulation	Added		
13.1	Waste treatment methods	Modified		
15.2	Chemical safety assessment	Added		
16	Abbreviations and acronyms	Modified		

Abbreviations and acronyms:		
ATE Acute Toxicity Estimate		
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
BCF Bioconcentration factor		
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008	
DPD	Dangerous Preparations Directive 1999/45/EC	

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Abbreviations and acronyms:		
DSD	Dangerous Substances Directive 67/548/EEC	
ΙΑΤΑ	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
РВТ	Persistent Bioaccumulative Toxic	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006	
SDS	Safety Data Sheet	
ACGIH	American Conference of Government Industrial Hygienists	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
CAS-No.	Chemical Abstract Service number	
COD	Chemical oxygen demand (COD)	
CSA	Chemical safety assessment	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
ED	Endocrine disruptor	
EN	European Standard	
EWC	European waste catalogue	
IARC	International Agency for Research on Cancer	
Log Kow	Partition coefficient n-octanol/water (Log Kow)	
Log Pow	Partition coefficient n-octanol/water (Log Pow)	
МАК	maximum workplace concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
N.O.S.	Not Otherwise Specified	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
OSHA	Occupational Safety Health Administration	
PNEC	Predicted No-Effect Concentration	
PPE	Personal protection equipment	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	

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Abbreviations and acronyms:		
STP	Sewage treatment plant	
TF	Technical function	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
TWA	Time Weighted Average	
VOC	Volatile Organic Compounds	
vPvB	Very Persistent and Very Bioaccumulative	
UFI	Unique Formula Identifier	

Data sources	: ECHA (European Chemicals Agency). Supplier's safety documents. REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
Other information	: DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness.

Safety Data Sheet (SDS), EU Duchefa 2023

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.