# Safety data sheet according to 1907/2006/EC, Article 31

Version number 1

Revision: 18.01.2024

1.1 Product identifier	CFDV/
Trade name: <u>D-Mannose</u>	serving scientis
Article number: 28460	
CAS Number:	
3458-28-4	
EC number:	
222-392-4	
<b>1.2 Relevant identified uses of the substance or mixture and uses of</b> No further relevant information available.	advised against
Application of the substance / the mixture: Laboratory chemicals	
1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier:	
SERVA Electrophoresis GmbH	· Co
Carl-Benz-Str. 7	
D-69115 Heidelberg	5
Tel.: +49 6221 13840-0	75
FAX: +49 6221 13840-10	
msds.info@serva.de	
Information department:	
Product Safety Department	
Product Safety Department Tel.: +49 6221 13840-35	
1.4 Emergency telephone number:	
Emergency medical information in case of poisoning	
Poison Information Centre Mainz-Tel: +49 (0) 6131 19240	
(Counselling in German and English)	
~0	
SECTION 2: Hazards identification	
2.1 Classification of the substance or mixture	
Classification according to Regulation (EC) No 1272/2008:	
The substance is not classified, according to the GB CLP regulation	n.
2.2 Label elements	
Labelling according to Regulation (EC) No 1272/2008: Void	
Hazard pictograms: Void	
Signal word: Void	
Hazard statements: Void	
2.3 Other hazards Results of PBT and vPvB assessment:	
<b>PBT:</b> PBT - Assessment not available.	
<b>vPvB:</b> vPvB - Assessment not available.	
<b>Determination of endocrine-disrupting properties</b> No further relev	ant information available.
SECTION 3: Composition/information on ingredients	
3.1 Substances CAS No. Description:	
CAS No. Description: 3458-28-4 D-mannose	
Identification number(s):	
<b>EC</b> number: 222-392-4	
Description:	
Empirical formula: C <sub>o</sub> H <sub>12</sub> O <sub>6</sub>	
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#### Trade name: D-Mannose

• MW: 180.2 g/mol

### **SECTION 4: First aid measures**

- · 4.1 Description of first aid measures
- General information: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact:
- Wash off immediately with soap and water and rinse thoroughly. In case of complaints, consult a doctor. *After eye contact:*
- Rinse opened eye for several minutes with running water. Remove contact lenses, if possible, and continue rinsing. In case of complaints, consult an ophthalmologist.
- After swallowing: Rinse out mouth. In case of complaints, consult a doctor.
- **4.2** *Most important symptoms and effects, both acute and delayed No further relevant information available.*
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

#### **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:
- $CO_2$ , extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. • 5.2 Special hazards arising from the substance or mixture:
- Formation of hazardous vapours and gases possible during heating or in case of fire. In case of fire, the following can be formed, but not limited to: Carbon monoxide and carbon dioxide
- · 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained breathing apparatus.

#### **SECTION 6: Accidental release measures**

· 6.1 Personal precautions, protective equipment and emergency procedures Avoid formation of dust.

- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up Dispose contaminated material as waste according to section 13. Pick up mechanically.
- 6.4 Reference to other sections
  See Section 7 for information on safe handling
  See Section 8 for information on personal protection equipment.
  See Section 13 for disposal information.

#### **SECTION 7: Handling and storage**

• 7.1 Precautions for safe handling: No special measures required.

- · Information about protection against explosions and fires: Keep ignition sources away Do not smoke.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage
- Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Store containers tightly closed and dry.
- 7.3 Specific end use(s): No further relevant information available.

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81 Control narameters				
8.1 Control parameters	uire monitoring at the workplace. Not required			
<b>Components with limit values that require monitoring at the workplace:</b> Not required. <b>Additional information:</b> The lists that were valid during the creation were used as basis.				
Auditonui information. The tists that	were valia auting the creation were used as basis.			
8.2 Exposure controls				
Appropriate engineering controls: No				
Individual protection measures, such a				
General protective and hygienic measured				
Keep away from foodstuffs, beverages a	and feed.			
Store protective clothing separately.				
Immediately remove all soiled and com	taminated clothing			
Avoid contact with the eyes and skin.				
Wash hands before breaks and at the en				
Breathing equipment: Suitable respira	tory protective device recommended.			
Hand protection:				
	on to the glove material can be given for the product/ the preparation			
the chemical mixture.				
	consideration of the penetration times, rates of diffusion and th			
degradation				
Material of gloves:				
	loes not only depend on the material, but also on further marks of a manufacturar			
quality and varies from manufacturer to	o manufacturer.			
Penetration time of glove material:	for a for the state of the second state of the			
-	found out by the manufacturer of the protective gloves and has to b			
observed.				
For the norman and contact of a	cimum of 15 minutes along made of the following materials			
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· Solubility:	
· Water:	no information available
· Partition coefficient n-octanol/water (log value):	No information available
· Vapour pressure:	No information available
· Density and/or relative density:	•
· Density:	No information available
· Relative density:	No information available
· Particle characteristics	No information available
• 9.2 Other information	
· Appearance:	
· Form:	Powder
• Important information on protection of health and environment, and on safety:	1
· Explosive properties:	The product is not explosive, but the formation of
Explosive properties.	explosive dust/air mixtures is possible.
· Molecular weight	180.2 g/mol

#### **SECTION 10: Stability and reactivity**

- 10.1 Reactivity: No further relevant information available.
- · 10.2 Chemical stability:
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions: No further relevant information available.
- · 10.4 Conditions to avoid: Avoid high temperatures, flames, sparks
- · 10.5 Incompatible materials: Avoid contact with strong oxidizers.
- 10.6 Hazardous decomposition products: In case of fire: see section 5

#### **SECTION 11: Toxicological information**

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:
- Acute toxicity: Based on available data, the classification criteria are not met.
- · Skin corrosion/irritation: Based on available data, the classification criteria are not met.
- Serious eye damage/irritation: Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.
- Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- Carcinogenicity: Based on available data, the classification criteria are not met.
- Reproductive toxicity: Based on available data, the classification criteria are not met.
- STOT-single exposure: Based on available data, the classification criteria are not met.
- STOT-repeated exposure: Based on available data, the classification criteria are not met.
- Aspiration hazard: Based on available data, the classification criteria are not met.
- $\cdot$  11.2 Information on other hazards:
- Endocrine disrupting properties: No relevant information available

## SECTION 12: Ecological information

- · 12.1 Toxicity:
- $\cdot \textit{Aquatic toxicity: No further relevant information available.}$
- · 12.2 Persistence and degradability: No further relevant information available.
- 12.3 Bioaccumulative potential: No further relevant information available.
- 12.4 Mobility in soil: No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment:
- **PBT:** PBT assessment not available.
- $\cdot vPvB: vPvB assessment not available.$

• 12.6 Endocrine disrupting properties: For information on endocrine disrupting properties see section 11.

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· 12.7 Other adverse effects:

· Additional ecological information:

· General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

### **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- **Recommendation** Dispose of in accordance with official regulations.
- · Uncleaned packagings:
- · Recommendation:

Uncleaned packaging must be disposed of in the same way as the product in accordance with official regulations.

SECTION 14: Transport information			
· 14.1 UN number or ID number · ADR, IMDG, IATA	Void		
· 14.2 UN proper shipping name · ADR, IMDG, IATA	Void		
· 14.3 Transport hazard class(es)			
· ADR, ADN, IMDG, IATA · Class:	Void		
· 14.4 Packing group · ADR, IMDG, IATA	Void		
· 14.5 Environmental hazards	Not applicable.		
· 14.6 Special precautions for user	Not applicable.		
• 14.7 Maritime transport in bulk according to IMO instruments Not applicable.			
· UN "Model Regulation":	Void		

#### **SECTION 15: Regulatory information**

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

· Poisons Act

- · Regulated explosives precursors Substance is not listed.
- · Regulated poisons Substance is not listed.
- · Reportable explosives precursors Substance is not listed.
- · Reportable poisons Substance is not listed.
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment Annex II
- Substance is not listed. • REGULATION (EU) 2019/1148
- Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3)) Substance is not listed.
- Annex II REPORTABLE EXPLOSIVES PRECURSORS Substance is not listed.

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• **Regulation (EC) No 273/2004 on drug precursors** Substance is not listed.

• Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors Substance is not listed.

· National regulations:

• Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Product Safety Department
- · Contact: +49 6221 13840-35
- Abbreviations and acronyms:
- PBT: persistent, bioaccumulative, toxic substance (UK REACH)
- vPvB: very persistent, very bioaccumulative substance (UK REACH)
- UK REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals

GB CLP: Regulation on classification, labelling and packaging of substances and mixtures

bw: body weight ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the

International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

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