

## SAFETY DATA SHEET

## DEAE-Dextran

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

## 1.1. Product identifier

Trade name

DEAE-Dextran

Product no.

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

Relevant identified uses of the substance or mixture

Active pharmaceutical ingredient for pharmaceutical preparations and other industrial uses.

Relevant identified uses of the substance or mixture (REACH)

Not applicable

Uses advised against

Not applicable

## 1.3. Details of the supplier of the safety data sheet

Company and address

**Pharmacosmos A/S**

Roervangsvej 30

4300 Holbaek

Denmark

T: +45 5948 5959

F: +45 5948 5960

Contact person

Lise Larsen

E-mail

info@pharmacosmos.com

SDS date

2019-06-18

SDS Version

2.0

## 1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service). See section 4 "First aid measures".

## SECTION 2: Hazards identification

## 2.1. Classification of the substance or mixture

Not classified according to Regulation (EC) No. 1272/2008 (CLP)

## 2.2. Label elements

Hazard pictogram(s)

Not applicable

Signal word

Not applicable

Hazard statement(s)

Not applicable

Safety statement(s)

General

-

Prevention

-

Response

-

Storage

## According to EC-Regulation 2015/830

-  
Disposal

-  
Hazardous substances

Not applicable

## 2.3. Other hazards

Additional labelling

Not applicable

## SECTION 3: Composition/information on ingredients

## 3.1 Substances

Product/Ingredient name	Identifier number	% w/w	CLP	Note
DEAE-Dextran	CAS No.: 9064-91-9	95-100%		
	EC No.:			
	REACH No.:			
	Index No.:			

## 3.2 Mixtures

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

## Other information

No special

## SECTION 4: First aid measures

## 4.1. Description of first aid measures

## General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. The doctor can contact the National Poisons Information Service: Dial 0344 892 0111 (24 h service).

Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

## Inhalation

Bring the person into fresh air and stay with him/her.

## Skin contact

Immediately remove contaminated clothing and shoes. Ensure that skin, which has been exposed to the material, is washed thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

## Eye contact

Remove contact lenses and open eyes widely. Flush eyes with water or saline water(20-30°C) for at least 15 minutes. Seek medical assistance and continue flushing during transport.

## Ingestion

Provide plenty of water for the person to drink and stay with him/her. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the victim lean forward with head down to avoid inhalation of- or choking on vomited material.

## Burns

Not applicable

## 4.2. Most important symptoms and effects, both acute and delayed

No special

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

No special

## Information to medic

Bring this safety data sheet.

## SECTION 5: Firefighting measures

## According to EC-Regulation 2015/830

### 5.1. Extinguishing media

Recommended: alcohol-resistant foam, carbonic acid, powder, water mist. Waterjets should not be used, since they can spread the fire.

### 5.2. Special hazards arising from the substance or mixture

Fire will result in dense black smoke. Exposure to combustion products may harm your health. Fire fighters should wear appropriate protection equipment. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous catabolic substances are produced. These are:

### 5.3. Advice for firefighters

No specific requirements

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

No specific requirements

### 6.2. Environmental precautions

No specific requirements

### 6.3. Methods and material for containment and cleaning up

To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

Collect spills carefully. Moist the material with water in order to prevent the formation and propagation of dust.

### 6.4. Reference to other sections

See section on "Disposal considerations" in regard of handling of waste.

See section on 'Exposure controls/personal protection' for protective measures.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Smoking, storage of tobacco, consumption and storage of food or liquids are not allowed in the workrooms.

See section on 'Exposure controls/personal protection' for information on personal protection.

### 7.2. Conditions for safe storage, including any incompatibilities

Always store in containers of the same material as the original container.

#### Storage temperature

Should be stored according to conditions described on the label.

### 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No substances are listed in The Control of Substances Hazardous to Health Regulations with an occupational exposure limit.

#### DNEL / PNEC

### 8.2. Exposure controls

Control is unnecessary if the product is used as intended.

#### General recommendations

Smoking, eating and drinking are not allowed in the work premises

#### Exposure scenarios

In the event exposure scenarios are appended to the safety data sheet, the operational conditions and risk management measures in these shall be complied with.

#### Exposure limits

Occupational exposure limits have not been defined for the substances in this product.

#### Appropriate technical measures

Apply standard precautions during use of the product. Avoid inhalation of gas or dust.

#### Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

## According to EC-Regulation 2015/830

## Measures to avoid environmental exposure


No specific requirements

## Individual protection measures, such as personal protective equipment

## Generally

Use only CE marked protective equipment.

## Respiratory Equipment

Work situation	Recommended Filter type	Class	Colour	Standards	
If ventilation at the work place is insufficient, use a half- or full mask with a appropriate particle filter.	S/SL	-	White	EN149	


## Skin protection

No specific requirements

## Hand protection

No specific requirements

## Eye protection

Recommended	Standards	
Wear face shield alternatively safety glasses with side shields.	EN166	

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

## Form

Powder

## Colour

White

## Odour

None

## Odour threshold (ppm)

No data available

## pH

No data available

Density (g/cm<sup>3</sup>)

No data available

## Viscosity (40°C)

No data available

## Phase changes

## Melting point (°C)

No data available

## Boiling point (°C)

No data available

## Vapour pressure

No data available

## Vapour density

No data available

## Decomposition temperature (°C)

No data available

## Evaporation rate (n-butylacetate = 100)

No data available

## Data on fire and explosion hazards

## Flash point (°C)

No data available

## Ignition (°C)

## According to EC-Regulation 2015/830

No data available  
Auto flammability (°C)  
No data available  
Explosion limits (% v/v)  
No data available  
Explosive properties  
No data available  
Oxidizing properties  
No data available

## Solubility

Solubility in water  
Soluble  
n-octanol/water coefficient  
No data available

## 9.2. Other information

Solubility in fat (g/L)  
No data available

## SECTION 10: Stability and reactivity

## 10.1. Reactivity

No data available

## 10.2. Chemical stability

The product is stable under the conditions, noted in the section "Handling and storage".

## 10.3. Possibility of hazardous reactions

No special

## 10.4. Conditions to avoid

No special

## 10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

## 10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

## SECTION 11: Toxicological information

## 11.1. Information on toxicological effects

## Acute toxicity

No data available

## Skin corrosion/irritation

No data available

## Serious eye damage/irritation

No data available

## Respiratory or skin sensitisation

No data available

## Germ cell mutagenicity

No data available

## Carcinogenicity

No data available

## Reproductive toxicity

No data available

## STOT-single exposure

No data available

## STOT-repeated exposure

No data available

## Aspiration hazard

No data available

## Long term effects

No special

## SECTION 12: Ecological information

## 12.1. Toxicity

## 12.2. Persistence and degradability

## 12.3. Bioaccumulative potential

## 12.4. Mobility in soil

No data available

## 12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

## 12.6. Other adverse effects

No special

## SECTION 13: Disposal considerations

## 13.1. Waste treatment methods

Product is not covered by regulations on dangerous waste.

## EWC code

Not applicable

## Specific labelling

Not applicable

## Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

## SECTION 14: Transport information

## 14.1 - 14.4

Not dangerous goods according to ADR, IATA and IMDG.

## ADR/RID

Not applicable

## IMDG

Not applicable

## Marine pollutant

No

## 14.5. Environmental hazards

Not applicable

## 14.6. Special precautions for user

Not applicable

## 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

## Restrictions for application

No special conditions required.

## Demands for specific education

No special

## SEVESO

## CATEGORIES

Not applicable

## NAMED DANGEROUS SUBSTANCES

Not applicable

## Additional information

Not applicable

## Sources

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification,

## According to EC-Regulation 2015/830

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 (CLP).  
Regulation (EC) 1907/2006 (REACH).

## 15.2. Chemical safety assessment

No

## SECTION 16: Other information

## Full text of H-phrases as mentioned in section 3

## Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway  
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor  
CAS = Chemical Abstracts Service  
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
CSA = Chemical Safety Assessment  
CSR = Chemical Safety Report  
DMEL = Derived Minimal Effect Level  
DNEL = Derived No Effect Level  
EINECS = European Inventory of Existing Commercial chemical Substances  
ES = Exposure Scenario  
EUH statement = CLP-specific Hazard statement  
EWC = European Waste Catalogue  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
OECD = Organisation for Economic Co-operation and Development  
PBT = Persistent, Bioaccumulative and Toxic  
PNEC = Predicted No Effect Concentration  
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
RRN = REACH Registration Number  
SVHC = Substances of Very High Concern  
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure  
STOT-SE = Specific Target Organ Toxicity - Single Exposure  
TWA = Time weighted average  
UN = United Nations  
UVCB = Complex hydrocarbon substance  
VOC = Volatile Organic Compound  
vPvB = Very Persistent and Very Bioaccumulative

## Additional information

Not applicable

## The safety data sheet is validated by

SHCW/CHYMEIA

## Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.