

Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 14/09/2011 Revision date 13/06/2018

S0188

Version: 2.0

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

### 1.1. Product identifier

Product form : Substance

Trade name : Spectinomycin dihydrochloride pentahydrate

EC-No. : 244-554-3 CAS-No. : 22189-32-8 Product code : S0188

Formula : C14H24N2O7 · 2HCl · 5H2O

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 the safety data sheet

### Supplier

Duchefa Biochemie B.V.
A. Hofmanweg 71
2031 BH Haarlem - The Netherlands
T +31(0)23-5319093 - F +31(0)23-5318027
info@duchefa.nl

### 1.4. Emergency telephone number

Emergency number : Supplier contact information:

+31(0)23-5319093 (M-F 09:00-17:00) +31(0)6-30109355 (outside office hours)

Organisation/Company	Address	Comment
World Health Organization world	http://apps.who.int/poisoncentres/	Consult website for a local poison centre
directory of poison centres		

# **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

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

Respiratory sensitisation, Category 1 H334 Skin sensitisation, Category 1 H317

Full text of H statements : see section 16

### Adverse physicochemical, human health and environmental effects

No additional information available

Safety Data Sheet

according to Regulation (EU) 2015/830

### 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS08

Signal word (CLP) : Danger

Hazard statements (CLP) : H317 - May cause an allergic skin reaction.

H334 - May cause allergy or asthma symptoms or breathing difficulties if

inhaled.

Precautionary statements (CLP) : P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 - Wear protective gloves/protective clothing/eye protection/face

protection

P342+P311 - If experiencing respiratory symptoms: Call a POISON

CENTER/doctor

P302+P352 - IF ON SKIN: Wash with plenty of water.

### 2.3. Other hazards

No additional information available

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

### 3.1. Substances

Name : Spectinomycin dihydrochloride pentahydrate

CAS-No. : 22189-32-8 EC-No. : 244-554-3

Name	Product identifier	%
Spectinomycin dihydrochloride pentahydrate	(CAS-No.) 22189-32-8 (EC-No.) 244-554-3	>= 95

Full text of H-statements: see section 16

### 3.2. Mixtures

Not applicable

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

### 4.1. Description of first aid measures

First-aid measures general : Seek medical attention if ill effect or irritation develops.

First-aid measures after inhalation : Assure fresh air breathing

Allow the victim to rest.

First-aid measures after skin contact : Wash skin with plenty of water and soap.

First-aid measures after eye contact : Rinse with water. First-aid measures after ingestion : Rinse mouth.

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

No additional information available

SDS Ref.: S0188

Safety Data Sheet

according to Regulation (EU) 2015/830

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

No additional information available

# **SECTION 5: Firefighting measures**

5.1. Extinguishing media

Suitable extinguishing media : Foam

> Dry powder Carbon dioxide Water spray.

Unsuitable extinguishing media : Do not use a heavy water stream.

Special hazards arising from the substance or mixture

Hazardous decomposition products in : When exposed to heat, may decompose liberating hazardous gases

case of fire

- COx - NOx.

5.3. Advice for firefighters

Precautionary measures fire : Avoid raising dust.

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution

when fighting any chemical fire.

Protection during firefighting : Do not enter fire area without proper protective equipment, including

respiratory protection.

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

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

### 6.1.1. For non-emergency personnel

No additional information available

### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

**Emergency procedures** : Ventilate area.

#### 6.2. **Environmental precautions**

Prevent entry to sewers and public waters.

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

: On land, sweep or shovel into suitable containers. Minimize generation of Methods for cleaning up

dust.

#### 6.4. Reference to other sections

Reference to other sections (8, 13).

## SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Handle in accordance with good industrial hygiene and safety procedures.

### Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container closed when not in use

Store in dry, cool, well-ventilated area.

: 2 - 8 °C Storage temperature

13/06/2018 Duchefa Biochemie B.V. EN (English) SDS Ref.: S0188

Safety Data Sheet

according to Regulation (EU) 2015/830

### 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

No additional information available

### 8.2. Exposure controls

### Personal protective equipment:

Avoid all unnecessary exposure.

### Hand protection:

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

### Eye protection:

Chemical goggles or safety glasses

### Skin and body protection:

Wear suitable protective clothing

### Respiratory protection:

Where excessive dust may result, wear approved mask. Type P2 (EN 143)

# SECTION 9: Physical and chemical properties

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

Physical state : Solid

Appearance : Crystalline powder.
Molecular mass : 495,34 g/mol

Colour : White

Colourless.

Odour : Odourless.

Odour threshold : No data available

pH : 3,8 - 5,6

Relative evaporation rate (butylacetate=1) : No data available

Melting point : 210 °C

Freezing point : No data available **Boiling point** : No data available Flash point : No data available : No data available Auto-ignition temperature Decomposition temperature : No data available Flammability (solid, gas) : No data available Vapour pressure : No data available Relative vapour density at 20 °C : No data available Relative density : No data available

Solubility : Readily soluble in water.

### Safety Data Sheet

according to Regulation (EU) 2015/830

Log Pow: No data availableViscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive properties: No data availableOxidising properties: No data availableExplosive limits: No data available

### 9.2. Other information

No additional information available

# **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

Stable under normal conditions of storage, handling and use.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

Moisture

High temperature.

### 10.5. Incompatible materials

Strong oxidizers.

### 10.6. Hazardous decomposition products

Thermal decomposition generates:

- COx
- NOx.

# **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

Skin corrosion/irritation : Not classified

pH: 3,8 - 5,6

Serious eye damage/irritation : Not classified

pH: 3,8 - 5,6

Respiratory or skin sensitisation : May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

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

Safety Data Sheet

according to Regulation (EU) 2015/830

# **SECTION 12: Ecological information**

### 12.1. Toxicity

No additional information available

### 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

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

Additional information : Avoid release to the environment

## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Product/Packaging disposal

recommendations

: Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

# **SECTION 14: Transport information**

In accordance with ADR / IATA / IMDG

ADR	IMDG	IATA	
14.1. UN number			
Not regulated	Not regulated	Not regulated	
14.2. UN proper shipping name			
Not regulated	Not regulated	Not regulated	
Not regulated	Not regulated	Not regulated	
14.3. Transport hazard class(es)			
Not regulated	Not regulated	Not regulated	
Not regulated	Not regulated	Not regulated	
14.4. Packing group			
Not regulated	Not regulated	Not regulated	
14.5. Environmental hazards			
Not regulated	Not regulated	Not regulated	
No supplementary information available			

### 14.6. Special precautions for user

### . Overland transport

Not regulated

### - Transport by sea

Not regulated

Safety Data Sheet

according to Regulation (EU) 2015/830

### - Air transport

Not regulated

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

Not applicable

## **SECTION 15: Regulatory information**

### Safety, health and environmental regulations/legislation specific for the substance or mixture 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Spectinomycin dihydrochloride pentahydrate is not on the REACH Candidate List Spectinomycin dihydrochloride pentahydrate is not on the REACH Annex XIV List

### 15.1.2. National regulations

Ensure all national/local regulations are observed.

### Germany

Reference to AwSV : Water hazard class (WGK) 1, low

hazard to waters

12th Ordinance Implementing the Federal Immission Control Act -: Is not subject of the 12. BlmSchV

12.BImSchV

(Hazardous Incident Ordinance)

**Netherlands** 

SZW-lijst van kankerverwekkende stoffen : The substance is not listed

SZW-lijst van mutagene stoffen : The substance is not listed : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Borstvoeding NIET-limitatieve lijst van voor de voortplanting giftige stoffen – : The substance is not listed

Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : The substance is not listed

**Denmark** 

: Young people below the age of 18 Recommendations Danish Regulation

years are not allowed to use the

product

### **Chemical safety assessment**

No chemical safety assessment has been carried out

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

### Indication of changes:

1.4	Emergency telephone	Modified	Added additional information
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Added	H317 + H334
2.2	Precautionary statements (CLP)	Added	P261, P280, P342+P311, P302+P352
8.2	Hand protection	Modified	Specified material, thickness, et cetera of gloves
8.2	Respiratory protection	Modified	Filter P2

### Abbreviations and acronyms:

ATE	Acute Toxicity Estimate
-----	-------------------------

Safety Data Sheet

according to Regulation (EU) 2015/830

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
DSD	Dangerous Substances Directive 67/548/EEC
IATA	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
PBT	Persistent Bioaccumulative Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
SDS	Safety Data Sheet

Data sources : 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 : REACH Disclaimer:

This information is based on current knowledge. Consistency of data in the SDS with CSR is considered, as far as the information is available at the time of compilation (cfr Revision date and Version number). 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.

### Full text of H- and EUH-statements:

Resp. Sens. 1	Respiratory sensitisation, Category 1	
Skin Sens. 1	Skin sensitisation, Category 1	
H317	May cause an allergic skin reaction.	
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.	

### SDS Biochemicals version 2018

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

13/06/2018 Duchefa Biochemie B.V. EN (English) SDS Ref.: S0188 8/8