

## Safety Data Sheet

Penicillin/Streptomycin (100x)

According to Regulation (EC) No. 1907/2006 (REACH)

Date of Compilation 04.10.2017

Revision Date 16.01.2024

Version 002/01.2024

Replaces Version of 02.08.2022 (Version 001/08.2022)

### Section 1 Identification of the Substance/Mixture and of the Company/Undertaking

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#### Product Identifiers

Product name: Penicillin/Streptomycin (100x)

Catalogue No: PS-B

REACH No. A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration, or the registration is envisaged for a later registration deadline.

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

Identified uses: Laboratory chemicals, Manufacture of substances.

#### Details of the Supplier of the Safety Data Sheet

Company: Capricorn Scientific GmbH  
Auf der Lette 13 A  
35085 Ebsdorfergrund  
Germany  
Phone: +49 6424 94464 0  
E-Mail: [info@capricorn-scientific.com](mailto:info@capricorn-scientific.com)

#### Emergency Telephone Number

Emergency Phone: During Office Time: +49 6424 94464 0.

### Section 2 Hazards Identifications

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#### Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

#### Label elements

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

#### Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Statements

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Contains: penicillin G sodium salt (1:1). May produce an allergic reaction.

### Section 3 Composition/Information on Ingredients

#### Mixtures

Component	Classification	Concentration
<b>Streptomycin sulphate</b>		
CAS-No. 3810-74-0 EC-No. 223-286-0 *	Acute Tox. 4; H302 Repr. 2; H361fd	>= 0.1 - < 1 %
<b>Penicillin G sodium salt (1:1)</b>		
CAS-No. 69-57-8 EC-No. 200-710-2 *	Skin Sens. 1; H317	>= 0.1 - < 1 %

\*A registration number is not available for this substance as the substance, or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration, or the registration is envisaged for a later registration deadline.

#### Hazard statement(s)

H317 May cause an allergic skin reaction.  
H302 Harmful if swallowed.  
H361fd May probably harm fertility and the infant.

### Section 4 First Aid Measures

#### Description of first aid measures

**If inhaled** Fresh air. Consult doctor if feeling unwell.  
**In case of skin contact** Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
**In case of eye contact** Rinse out with plenty of water. Remove contact lenses.  
**If swallowed** Make victim drink water (two glasses at most). Consult doctor if feeling unwell.

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

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

**Indication of any immediate medical attention and special treatment needed: No data available.**

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### Section 5 Firefighting Measures

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#### Extinguishing media

##### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

##### Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

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

Nature of decomposition products not known.

Not combustible. Ambient fire may liberate hazardous vapours.

#### Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

#### Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

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### Section 6 Accidental Release Measures

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

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

#### Environmental precautions

Do not let product enter drains.

#### Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material. Dispose of properly. Clean up affected area.

#### Reference to other sections

For disposal see section 13

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### Section 7 Handling and Storage

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#### Precautions for safe handling

For precautions see section 2.

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

##### Storage conditions

Tightly closed.

Recommended storage temperature  $\leq -15$  °C.

##### Storage class

Storage class (TRGS 510): 10: Combustible liquids

##### Specific end use(s)

Apart from the uses mentioned in section 1 no other specific uses are stipulated.

### Section 8 Exposure Controls/Personal Protection

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#### Control parameters

#### Components with workplace control parameters

#### Exposure controls

#### 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). Safety glasses.

##### 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 contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

##### Body protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

##### Respiratory protection

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Required when vapors/aerosols are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

### Control of environmental exposure

Do not let product enter drains.

## Section 9 Physical and Chemical Properties

### Information on basic physical and chemical properties

Appearance	Form: liquid
Odor	No data available.
pH	No data available.
Melting/freezing point	No data available.
Initial boiling point and range	No data available.
Flash point	No data available.
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper/lower flammability or exposure limits	No data available.
Vapor pressure	No data available.
Vapor density	No data available.
Relative density	No data available.
Water solubility	at 20 °C soluble.
Partition coefficient: n-octanol/water	No data available.
Autoignition temperature	Not applicable.
Decomposition temperature	No data available.
Viscosity (kinematic/dynamic)	No data available.
Explosive properties	Not classified as explosive.
Oxidizing properties	None
<b>Other safety information</b>	No data available.

## Section 10 Stability and Reactivity

### Reactivity

No data available.

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### Chemical stability

The product is chemically stable under recommended storage conditions.

### Possibility of hazardous reactions

Violent reactions possible with: The generally known reaction partners of water.

### Conditions to avoid

No data available.

### Incompatible materials

Strong oxidizing agents.

### Hazardous decomposition products

In the event of fire: see section 5.

## Section 11

## Toxicological Information

### Information on toxicological effects

#### Mixture

#### Acute toxicity

Oral: No data available

Inhalation: No data available

Dermal: No data available

**Skin corrosion/irritation** No data available

**Serious eye damage/irritation** No data available

**Respiratory or skin sensitization** No data available

**Germ cell mutagenicity** No data available

**Carcinogenicity** No data available

**Reproductive toxicity** No data available

**Specific target organ toxicity - single exposure** No data available

**Specific target organ toxicity - repeated exposure** No data available

**Aspiration Hazard** No data available

### Additional information

#### Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately.

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### Components

#### Streptomycin sulphate

**Acute toxicity** LD50 Oral - Rat - 430 mg/kg

Remarks: (RTECS)

Inhalation: No data available

Dermal: No data available

<b>Skin corrosion/irritation</b>	No data available.
<b>Serious eye damage/eye irritation</b>	No data available.
<b>Respiratory or skin sensitization</b>	No data available.
<b>Germ cell mutagenicity</b>	No data available.
<b>Carcinogenicity</b>	No data available.
<b>Reproductive toxicity</b>	Suspected of damaging the unborn child. Suspected of damaging fertility.

**Specific target organ toxicity - single exposure** No data available.

**Specific target organ toxicity - repeated exposure** No data available.

**Aspiration hazard** No data available.

#### Penicillin G sodium salt (1:1)

##### Acute toxicity

LD50 Oral - Rat - 6.916 mg/kg

Remarks: (RTECS)

Inhalation: No data available

Dermal: No data available

<b>Skin corrosion/irritation</b>	No data available.
<b>Serious eye damage/eye irritation</b>	No data available.
<b>Respiratory or skin sensitization</b>	No data available.
<b>Germ cell mutagenicity</b>	No data available.
<b>Carcinogenicity</b>	No data available.
<b>Reproductive toxicity</b>	No data available.
<b>Specific target organ toxicity - single exposure</b>	No data available.
<b>Specific target organ toxicity - repeated exposure</b>	No data available.
<b>Aspiration hazard</b>	No data available.

## Section 12

## Ecological Information

### Toxicity

<b>Mixture</b>	No data available.
<b>Persistence and degradability</b>	No data available.
<b>Bioaccumulative potential</b>	No data available.
<b>Mobility in soil</b>	No data available.

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### Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher.

### Components

#### streptomycin sulphate

Toxicity to fish LC50 – Oncorhynchus mykiss (rainbow trout) -> 180 mg/l – 96 h Remarks: (Lit.)

Toxicity to daphnia / Invertebrates EC50 – Ceriodaphnia (water flea) – 487 mg/l – 48h Remarks: (Lit.)

penicillin G sodium salt (1:1) No data available.

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## Section 13 Disposal Considerations

### Waste treatment methods

#### Product

See a disposal company for processes regarding the return of chemicals and containers or contact us there if you have further questions.

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## Section 14 Transport Information

### UN-number

ADR/RID: - IMDG: - IATA: -

### UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

### Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

### Packaging group

ADR/RID: - IMDG: - IATA: -

### Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

### Further information

Not classified as dangerous in the meaning of transport regulations.



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### Section 15 Regulatory Information

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

#### Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

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### Section 16 Other Information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.