

Safety Data Sheet

Antibiotic/Antimycotic Solution (100x)

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

Date of compilation 28.09.2017

Revision Date 08.05.2025

Version 004/05.2025

Replaces version of 15.03.2023 (Version 003/03.2023)

Section 1 Identification of the substance/mixture and of the company/undertaking

Product identifiers

Product name: Antibiotic/Antimycotic Solution (100x)

Catalogue No.: AAS-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
For research and development or in-vitro diagnostic use only.
Not for therapeutic use. Not for use on human subjects.

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
Website: www.capricorn-scientific.com

Emergency telephone number

Emergency Phone: +49 6424 94464 0 (on workdays, Mon. to Fri. from 8:00 – 16:00 h CET/CEST)

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Section 2 Hazards identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008:

Acute toxicity, 4, H302
 Reproduction 2, H361fd
 Skin sensitization 1, H317

For the full text of the H-Statements mentioned in this Section, see below.

Label elements

Labelling according to Regulation (EC) No 1272/2008:

Pictogram



Signal Word

Warning

Hazard statements:

H302 Harmful if swallowed.
 H317 May cause an allergic skin reaction.
 H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

Precautionary statements:

P202 Do not handle until all safety precautions have been read and understood.
 P261 Avoid breathing mist or vapors.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P302/P352 IF ON SKIN: Wash with plenty of water.
 P308/P313 IF exposed or concerned: Get medical advice/ attention.
 P333/P313 If skin irritation or rash occurs: Get medical advice/ attention.
 P362/P364 Take off contaminated clothing and wash it before reuse.

Supplemental Hazard Statements

none

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.

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Section 3 Composition/information on ingredients



Substances

not relevant (mixture)

Mixtures

The product contains no components which at their given concentration, are considered to be hazardous to health.

Mixtures

Identification	Chemical name/Classification	Concentration
CAS: 3810-74-0 EC: 223-286-0 Index: Non-applicable REACH: Non-applicable	Streptomycinsulfat Acute toxicity 4, H302 Warning Reproductive toxicity 2, H361fd 	≥ 0,1%
Identification	Chemical name/Classification	Concentration
CAS: 113-24-6 EC: 204-024-4 Index: Non-applicable REACH: Non-applicable	Penicillin G sodium salt Synonyme: Benzylpenicillinsodium salt Skin sensitization 1, H317 Warning 	≥ 0,1%

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.

For the full text of the H-Statements mentioned in this Section, see Section 2.

Section 4 First aid measures

Description of first aid measures

General notes	Show this material safety data sheet to the doctor in attendance
Following skin contact	After contact with skin, wash immediately with plenty of water and soap. If skin irritation occurs: Get medical advice/attention.
Following eye contact	Remove contact lenses. Rinse immediately carefully and thoroughly with eyebath or water. If eye irritation persists: Get medical advice/attention.
Following ingestion	Do NOT induce vomiting. Call a doctor. Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person or a person with cramps.
Following inhalation	If breathed in, move person into fresh air. If not breathing, give artificial respiration.

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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

Section 5 Firefighting measures

Extinguishing media

Suitable extinguishing media Water Foam Carbon dioxide (CO₂) Dry powder

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

Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides (NO_x), Sulfur oxides, Sodium oxides
Not combustible

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

Suppress (knock down) gases/vapors/mists with a water spray jet.
Prevent fire extinguishing water from contaminating surface water or the ground water system.

Section 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. 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 material 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

Precautions for safe handling For precautions see section 2.

Conditions for safe storage, including any incompatibilities

Storage

Conditions: Tightly closed & dry

Storage class (TRGS 510): 10 – Not Combustible liquids

Stability: Recommended storage temperature: + 2 - +8 °C

Specific end use(s)

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

Section 8 Exposure controls/personal protection

Control parameters

Ingredients 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

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves.

Full contact:	Material: Nitrile rubber	Minimum layer thickness: 0,11 mm	Break through time: 480 min
Splash contact:	Material: Nitrile rubber	Minimum layer thickness: 0,11 mm	Break through time: 480 min

Body Protection

Protective clothing

Respiratory protection

Required when dusts 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. Recommended Filter type: Filter Type P2

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.

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Section 9 Physical and chemical properties

Information on basic physical and chemical properties

Physical state	Form: Suspension
Colour	yellow
Odour (Treshold)	Odorless
Melting/freezing point	No data available
Initial boiling point and range	No data available
Flammability (solid, gas)	No data available
Upper/lower explosion limit	Not classified as explosive
Flash point	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
pH	No data available
Viscosity - Kinematic:	No data available
- Dynamic:	No data available
Water solubility	Soluble
Partition coefficient [n-octanol/water]	No data available
Vapour pressure	No data available
Density/Relative density	No data available
Relative vapour density	No data available
Particle characteristics	No data available
Oxidizing properties	No data available

Other safety information No data available

Section 10 Stability and Reactivity

Reactivity	No data available
Chemical stability	Product is chemically stable under standard ambient conditions (+20 °C).
Possibility of hazardous reactions	Violent reactions possible with the generally known reaction partners of water.
Conditions to avoid	No information available
Incompatible materials	Strong oxidizing agents, acids and heavy metal salts
Hazardous decomposition products	In the event of fire: see section 5

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Section 11 Toxicological information

Information on toxicological effects

Mixture

Acute toxicity	Oral: > 2 000 mg/kg (Calculation method) Inhalation: No data available Dermal: No data available
Skin corrosion/irritation	No data available
Serious eye damage/eye 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
- repeated exposure	No data available
Aspiration hazard	No data available

Additional Information

Endocrine disrupting properties

Product

Assessment: 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.

Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Components

Streptomycinsulfat

Acute toxicity	Oral: LD50 Oral - Ratte - 430 mg/kg (RTECS) Inhalation: No data available Dermal: No data available
Skin corrosion/irritation	No data available
Serious eye damage/irritation	No data available

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Respiratory/skin sensitization No data available

Germ cell mutagenicity No data available

Carcinogenicity No data available

Reproductive toxicity Suspected of damaging the unborn child. Suspected of damaging fertility.

Specific target organ toxicity:

- single exposure No data available

- repeated exposure No data available

Aspiration hazard No data available

Penicillin G sodium salt

Acute toxicity Oral: LD50 Oral - Ratte – 6 916 mg/kg (RTECS)

Inhalation: No data available

Dermal: No data available

Skin corrosion/irritation No data available

Serious eye damage/irritation No data available

Respiratory/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

- repeated exposure No data available

Aspiration hazard No data available

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Section 12 Ecological information

Toxicity

Mixture No data available

Persistence and degradability No data available

Bioaccumulative potential No data available

Mobility in soil No data available

Results of PBT and vPvB assessment 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.

Endocrine disrupting properties

Product

Assessment: 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.

Other adverse effects No data available

Components

Streptomycinsulphate

Toxicity

to fish:

LC50 - Oncorhynchus mykiss (rainbow trout) => 180 mg/L - 96 h (Lit.)

to daphnia and other aquatic invertebrates:

Static test EC50 - Ceriodaphnia (water flea) => 487 mg/L - 48 h (Lit.)

Penicillin G sodium salt

No data available

General comments on entries in Section 12 as a whole

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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Section 13 Disposal considerations

Waste treatment methods

Product Discourage sewage disposal. Dispose of waste according to applicable legislation.
Contaminated packaging Dispose of as unused product. Dispose of waste according to applicable legislation.

Section 14 Transport Information

In accordance with ADR / RID / IMDG / IATA

ADR/RID	IMDG	IATA
UN number		
-	-	-
UN proper shipping name		
Not dangerous goods	Not dangerous goods	Not dangerous goods
Transport hazard classes		
-	-	-
Packaging group		
-	-	-
Environmental hazards		
no	Marine pollutant: no	no

Special precautions for user No data available

Maritime transport in bulk according to IMO instruments No data available

Section 15 Regulatory information

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

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

Other regulations Take note of Dir 94/33/EC on the protection of young people at work.

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

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Section 16

Other information

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 of the chemical substance or mixture and is applicable to the product regarding appropriate safety precautions. It does not represent any guarantee of the properties of the product.

Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways;

ADR - Agreement concerning the International Carriage of Dangerous Goods by Road;

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight;

CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation;

DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response;

EmS - Emergency Schedule; ENCS - Existing & New Chemical Substances (Japan);

ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice;

IARC - International Agency for Research on Cancer; IATA - International Air Transport Association;

IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk;

IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization;

IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods;

IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan);

ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory;

LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose);

MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified;

NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level;

NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals;

OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention;

PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances;

(Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals;

RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature;

SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory;

TSCA - Toxic Substances Control Act (United States); UN - United Nations;

UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative