

## Safety Data Sheet

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

Version 4, Revision Date: 10-JUL-2023

Print Date: 10-JUL-2023

### **SECTION 1 Identification of the Substance/Mixture and of the Company/Undertaking**

#### **1.1. Product identifier**

Product Names: Penicillin-Streptomycin Solution 100X  
Product Options: contains 10,000 units/ ml of penicillin, 10,000 µg/ ml streptomycin  
in 0.9 % saline. Sterile filtered.  
Product Code: RAL-002-100ML

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

Identified uses: Laboratory chemicals, Manufacture of substances

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

Company: Serana Europe GmbH  
Dorfstrasse 17A  
14641 Pessin  
Germany  
Phone: +49 (0)332 3785 9253  
E-Mail: info@serana-europe.com

#### **1.4. Emergency telephone number**

Emergency Phone: Regular Office Hours +49 (0)332 3785 9253

### **SECTION 2 Hazards Identification**

#### **2.1. Classification of the substance or mixture**

The product is not classified as hazardous according to CLP Regulation (EC) No 1272/2008.

#### **2.2. Label elements**

**CLP Regulation (EC) No 1272/2008:**

Not applicable

#### **2.3. Other hazards**

Not applicable

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### SECTION 3 Composition/Information on Ingredients

#### 3.1. Substances

Non-applicable

#### 3.2. Mixtures

**Chemical characterization:** water-based mixture of inorganic and organic compounds.

Chemical name	Identification	Concentration
Streptomycin sulphate	CAS: 3810-74-0 EC: 223-286-0	10,000 µg/ml
Penicillin G sodium salt	CAS: 69-57-8 EC: 200-710-2	10,000 units/ml

### SECTION 4 First Aid Measures

#### 4.1. Description of first aid measures

In either case, seek medical attention if the symptoms get worse or persist. showing the SDS of this product.

##### **If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

##### **In case of skin contact**

Wash off with soap and plenty of water.

##### **In case of eye contact**

Flush eyes with water as a precaution.

##### **If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water.

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

Acute and delayed effects are listed in section 2 and 11.

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

No data available.

## SECTION 5 Firefighting Measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment (e.g. ABC powder).

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

Nature of decomposition products not known.

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus for fire-fighting if necessary.

## SECTION 6 Accidental Release Measures

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

Avoid breathing vapours, mist or gas. For personal protection see section 8.

### 6.2. Environmental precautions

Do not let product enter drains.

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

Absorb the spillage using sand or inert absorbent material. Keep in suitable, closed containers for disposal.

### 6.4. Reference to other sections

For disposal see section 13.

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### **SECTION 7 Handling and Storage**

#### **7.1. Precautions for safe handling**

For precautions see section 2.

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

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Recommended storage temperature: -5 to -20 °C

#### **7.3. Specific end uses**

A part from the uses mentioned in section 1.2. no other specific uses are stipulated.

### **SECTION 8 Exposure Controls/Personal Protection**

#### **8.1. Control parameters**

There are no occupational exposure limits for the substances contained in this product.

#### **8.2. Exposure controls**

##### **8.2.1. Appropriate engineering controls**

General industrial hygiene practice. Ensure adequate ventilation, especially in confined areas.

##### **8.2.2. Individual protection measures**

###### **Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

###### **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 EU Directive 89/686/EEC and the standard EN 374 derived from it.

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### Body protection

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### Respiratory protection

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### 8.2.3. Environmental expose controls

Do not let product enter drains.

## SECTION 9 Physical and Chemical Properties

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

Appearance:	Form: liquid
Odor:	No data available
pH:	6.0 – 7.0
Water solubility:	No data available

### 9.2. Other safety information

No data available

## SECTION 10 Stability and Reactivity

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

No data available.

### 10.4. Conditions to avoid

No data available.

### 10.5. Incompatible materials

Avoid alkalis or strong bases and strong acids.

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### 10.6. Hazardous decomposition products

Other decomposition products: No data available.

## SECTION 11 Toxicological Information

### 11.1. Information on toxicological effects

#### Acute toxicity

Chemical name	LD50 (oral, rat/mouse)	LD50 (dermal, rat/mouse)	LC50 (inhalation, rat/mouse)
Streptomycin sulphate	430 mg/kg (rat)	No data available	No data available
Penicillin G sodium salt	6916 mg/kg rat	No data available	No data available

#### Skin corrosion/irritation

No data available.

#### Serious eye damage/eye irritation

No data available.

#### Respiratory or skin sensitization

May cause irritation of respiratory tract.

#### Ingestion

May be harmful if swallowed.

#### Germ cell mutagenicity

No data available.

#### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### 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.

#### Potential health effects

No data available.

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### Signs and Symptoms of Exposure

The chemical, physical, and toxicological properties have not been thoroughly investigated.

### Additional Information

RTECS: No data available.

## SECTION 12 Ecological Information

### 12.1. Toxicity

No data available.

### 12.2. Persistence and degradability

No data available.

### 12.3. Bioaccumulative potential

No data available.

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

### 12.6. Other adverse effects

No data available.

## SECTION 13 Disposal Considerations

### 13.1. Waste treatment methods

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

#### Contaminated packaging

Dispose as used product.

## SECTION 14 Transport Information

### 14.1. UN-number

ADR/RID: - IMDG: - IATA: -

### 14.2. UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

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**14.3. Transport hazard class(es)**

ADR/RID: - IMDG: - IATA: -

**14.4. Packaging group**

ADR/RID: - IMDG: - IATA: -

**14.5. Environmental hazards**

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

**14.6. Special precautions for user**

No data available.

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

No data available.

### **SECTION 15 Regulatory Information**

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

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

No data available.

**15.2. Chemical safety assessment**

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

### **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 and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.



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- a) Revised Version:  
Third Version, date of issue: 01-JUL-2020
- b) List of Abbreviations:  
ADR: European agreement concerning the international carriage of dangerous goods by road  
IMDG: International maritime dangerous goods code  
IATA: International air transport association  
IBC: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
vPvB: very persistent and very bioaccumulative  
LD50: Lethal Dose 50  
LC50: Lethal Concentration 50
- c) References:  
<http://echa.europa.eu>  
<http://eur-lex.europa.eu>
- d) Methods for evaluation of mixtures according to Article 9 of Regulation (EC) No 1272/2008:  
No data available.
- e) List of hazard and precautionary statements:  
If applicable, please see section 2.
- f) Training advice:  
General laboratory instructions are required. No special training advised.

- END OF SAFETY DATA SHEET -