

# Pen-Strep stock solution

## 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY

Product Name: Pen-Strep stock solution, 200x  
Catalog Number: ML-105  
Supplier: Jena Bioscience GmbH  
Loebstedter Strasse 71  
07749 Jena, Germany  
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## 2. HAZARDS IDENTIFICATION

### GHS classification according to Regulation (EC) No 1272/2008

Resp. Sens. 1; H334  
Skin Sens. 1; H317

### GHS Label elements:

Pictogram:



Signal word: Danger

### Hazard statements:

H317: May cause an allergic skin reaction.  
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

### Precautionary statements:

P261: Avoid breathing vapors.  
P280: Wear protective gloves / protective clothing / eye protection.  
P285: In case of inadequate ventilation wear respiratory protection.  
P304 + P341: IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.  
P333 + P313: If skin irritation or rash occurs: Get medical advice / attention.  
P342 + P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

### Additional information:

Laboratory chemicals must be handled only by qualified personnel and with precaution.

### Results of PBT and vPvB assessment:

PBT: No data available  
vPvB: No data available

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## 3. COMPOSITION / INFORMATION ON INGREDIENTS

### Mixtures / Hazardous components:

#### Streptomycin sulfate:

Substance Name:	Streptomycin sulfate
Molecular Formula:	$C_{42}H_{84}N_{14}O_{36}S_3$
Molecular Weight:	1457.38
CAS Number:	3810-74-0
Concentration:	1.5 %
Classification:	Acute Tox. 4, oral; H302 – Rep. Tox. 2; H361

#### Penicillin G sodium salt:

Substance Name:	Penicillin G sodium salt
Chemical Name:	4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid,3,3-dimethyl-7-oxo-6-(2-phenyl acetamido)-,monosodium salt
Molecular Formula:	$C_{16}H_{17}N_2NaO_4S$
Molecular Weight:	356.37
CAS Number:	69-57-8
Concentration:	1.5 %
Classification:	Resp. Sens. 1; H334 - Skin Sens. 1; H317

## 4. FIRST AID MEASURES

**General advice:** Consult a physician. Show this material safety data sheet to the doctor in attendance.

**After skin contact:** Immediately wash skin with soap and plenty of water. Consult a physician.

**After swallowing:** Never give anything by mouth to an unconscious person. Rinse mouth with water provided person is conscious. Consult a physician.

**After inhalation:** Remove to fresh air. If not breathing give artificial respiration. Consult a physician.

**After eye contact:** Immediately flush eyes with plenty of water for at least 15 minutes. Consult a physician.

## 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media:** Water spray, carbon dioxide, dry chemical powder or appropriate foam.

**Specific hazards arising from the chemical:** No data available

**Special Firefighting Procedures:** Wear self-contained breathing apparatus for firefighting if necessary.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Wear protective equipment. Keep unprotected persons away.

**Environmental precautions:** Dilute with plenty of water.

**Method for Cleaning Up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13.

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### 7. HANDLING AND STORAGE

**Handling:** Avoid formation of aerosols and contact with eyes, skin and clothing.

**User Exposure:** Avoid inhalation. Use personal protective equipment (i.e. impermeable gloves, lab coat or appr.).

**Storage:** Store at -20°C (Stable for 12 month).

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Measures:** Ensure adequate ventilation and cleanable resistant tightly sealed working surfaces.

**Respiratory protection:** In case of insufficient ventilation wear suitable respiratory equipment.

**Hand protection:** Handle with gloves to prevent skin contact.

**Eye protection:** Wear chemical safety goggles to prevent eye contact.

**Skin and 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.

**General Hygiene measures:** Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance:

Form:	liquid
Color:	colorless
Odor:	odorless
Odor threshold:	No data available

#### Safety data:

pH:	No data available
Melting point:	No data available
Boiling point:	No data available
Flash point:	No data available
Ignition temperature:	No data available
Thermal decomposition:	No data available
Self-igniting:	Product is not self-igniting.
Danger of explosion:	Product does not present an explosion hazard.
Vapor pressure:	No data available
Solubility in / Miscibility with water:	Fully miscible
Segregation coefficient (n-octanol / water):	No data available
Viscosity, dynamic:	No data available

### 10. STABILITY AND REACTIVITY

**Reactivity:** No data available

**Chemical stability:** Stable under recommended storage conditions at -20°C (12 months)

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



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**Possibility of hazardous reactions:** No data available

**Conditions to avoid:** No data available

**Incompatible materials:** No data available

**Hazardous decomposition products:** No data available

### 11. TOXICOLOGICAL INFORMATION

<b>Acute toxicity:</b>	No data available
<b>Skin corrosion/irritation:</b>	No data available
<b>Serious eye damage/irritation:</b>	No data available
<b>Respiratory or skin sensitization:</b>	Sensitization possible through inhalation or skin contact.
<b>Germ cell mutagenicity:</b>	No data available
<b>Carcinogenicity:</b>	No data available
<b>Reproductive toxicity:</b>	No data available
<b>Additional information:</b>	RTECS: WK4990000 (Streptomycin sulfate) RTECS: XH9800000 (Penicillin G sodium salt)

### 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity:</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
<b>General notes:</b>	Generally not hazardous for water.

### 13. DISPOSAL CONSIDERATIONS

**Product:** Observe all federal, state and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Must not be disposed of together with household garbage.

**Contaminated Packaging:** Disposal must be made according to official regulations.

**Cleansing agents:** Water, if necessary together with cleansing agents.

### 14. TRANSPORT INFORMATION

<b>ADR / RID:</b>	Not dangerous goods
<b>DOT (US):</b>	Not dangerous goods
<b>IMDG:</b>	Not dangerous goods
<b>ICAO / IATA:</b>	Not dangerous goods
<b>UN "Model Regulation":</b>	Not dangerous goods

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## 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:** No data available

## 16. OTHER INFORMATION

This material is sold for research purposes only and is not required to appear on the TSCA inventory. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. Users should make independent decisions regarding completeness of the information based on all sources available.

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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