

# MATERIAL SAFETY DATA SHEET

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

### Product identifiers

Product name: Penicillin/Streptomycin  
Product number: P06-07021 P06-07025 P06-07050 P06-07100  
Brand: PAN Biotech

### 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: PAN Biotech GmbH  
Am Gewerbepark 6  
94501 Aidenbach  
GERMANY

Telephone: +49-(0)8543-6016-30  
Fax: +49-(0)8543-6016-49  
E-mail: info@pan-biotech.de

### Emergency telephone number

Emergency phone: +49-(0)8543-6016-30 or +49 151 51557123

## 2. HAZARDS IDENTIFICATION

### Classification of the substance or mixture

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

Acute toxicity, Oral (Category 4), H302  
Skin sensitisation (Category 1), H317  
Reproductive toxicity (Category 2), H361

#### 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.  
H361 Suspected of damaging fertility or the unborn child

#### Precautionary statements

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

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<b>Synonyms</b>	Pen-Strep			
<b>Component</b>		<b>CAS Number</b>	<b>Classification</b>	<b>Concentration</b>
Streptomycin sulfate		3810-74-0	Acute Tox.4 H302 Repr. 2 H361	0.9 – 1.1 %
Penicillin G Potassium Salt		113-98-4	Skin Sens.1, H317	< 1 %

### 4. FIRST AID MEASURES

<b>General advice</b>	Consult a physician. Show this safety data sheet to the doctor in attendance
<b>Inhalation</b>	If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.
<b>Skin contact</b>	Wash off with soap and plenty of water. Contact a physician.
<b>Eye contact</b>	Flush eyes with water as a precaution.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
<b>Notes to physician</b>	Treat symptomatically.

### 5. FIREFIGHTING MEASURES

#### **Extinguishing Media**

#### **Suitable extinguishing media**

Use water spray, carbon dioxide, dry chemical, or alcohol resistant foam.

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

Carbon oxides, Nitrogen oxides (NO<sub>x</sub>), Sulphur oxides.

Nature of decomposition products not known.

#### **Special Protective equipment for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

#### **Further information**

No data available.

### 6. ACCIDENTAL RELEASE MEASURES

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

Use personal protective equipment Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

Evacuate personnel to safe areas.

#### **Environmental precautions**

Do not let product enter drain.

#### **Methods for cleaning up**

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal

### 7. HANDLING AND STORAGE

#### **Handling**

Avoid contact with skin and eyes

#### **Storage**

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.

Store at -20°C

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Appropriate engineering controls**

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Handle in accordance with the good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### **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).

##### **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.

##### **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).

##### **Control of environmental exposure**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Form: Liquid
<b>pH</b>	No data available
<b>BP/BP Range</b>	No data available
<b>MP/MP Range</b>	No data available
<b>Flash Point</b>	No data available
<b>Flammability</b>	No data available
<b>Autoignition Temp</b>	No data available
<b>Oxidizing Properties</b>	No data available
<b>Explosive Properties</b>	No data available
<b>Explosion Limits</b>	No data available
<b>Vapor Pressure</b>	No data available
<b>Partition Coefficient n-Octanol/water</b>	No data available
<b>Viscosity</b>	No data available
<b>Vapor Density</b>	No data available
<b>Saturated Vapor Conc.</b>	No data available
<b>Evaporation Rate</b>	No data available
<b>Relative Density</b>	No data available
<b>Decomposition Temp.</b>	No data available
<b>Solvent Content</b>	No data available
<b>Solubility</b>	No data available

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under recommended storage conditions.
<b>Conditions to avoid</b>	No data available
<b>Incompatible materials</b>	Oxidizing agents.
<b>Hazardous decomposition products</b>	Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides.

## 11. TOXICOLOGICAL INFORMATION

<b>Information on toxicological effects</b>	
<b>Acute toxicity</b>	No data available
<b>Skin corrosion/irritation</b>	No data available (Penicillin-Streptomycin)

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**Serious eye damage/eye irritation** No data available (Penicillin-Streptomycin)  
**Respiratory or skin sensitisation** Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

**Germ cell mutagenicity** No data available (Penicillin-Streptomycin).

**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

**Additional Information** RTECS: Not available

**12. ECOLOGICAL INFORMATION**

**Toxicity** 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**

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

**Other adverse effects** No data available

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging**

Dispose of as unused product.

**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

**Special precautions for user**

no data available

**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.

**Chemical safety assessment**

For this product a chemical safety assessment was not carried out

**16. OTHER INFORMATION**

**Further 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. PAN Biotech GmbH shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.pan-biotech.com](http://www.pan-biotech.com) or reverse side of invoice or packing slip for additional terms and conditions of sale.