

## MATERIAL SAFETY DATA SHEET

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

#### 1.1 Product identifiers

Product name: Streptomycin sulphate, Powder  
Product number: P06-11050P

Brand: PAN Biotech

#### 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 PAN Biotech GmbH  
Am Gewerbepark 13  
94501 Aidenbach  
GERMANY

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

#### 1.4 Emergency telephone number

Emergency phone: +49-(0)8543-6016-31

### 2. HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

##### Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Acute toxicity, Oral Category 4  
Reproductive toxicity Category 2

##### Classification according to EU Directives 67/548/EEC or 1999/45/EC

Harmful if swallowed. Possible risk of harm to the unborn child.

#### Label elements

##### Labelling according Regulation (EC) No 1272/2008 [CLP]

Pictogram



Signal word

Warning

Hazard statement(s)

H302  
H361

Harmful if swallowed.  
Suspected of damaging fertility or the unborn child.

Precautionary statement(s)

P281

Use personal protective equipment as required.

Supplemental Hazard Statements

none

3. **COMPOSITION/INFORMATION ON INGREDIENTS**

Component	CAS-No.	EG-No.
Streptomycin sulphate	3810-74-0	223-286-0

4. **FIRST AID MEASURES**

**In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

**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. Consult a physician.

**If inhaled**

Move person into fresh air. If not breathing, give artificial respiration. Consult a physician

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

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

**Indication of any immediate medical attention and special treatment needed**

no data available

5. **FIREFEIGHTING MEASURES**

**Suitable extinguishing media**

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

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

Carbon oxides, nitrogen oxides (NOx), Sulphur oxides

**Advice for firefighters**

Wear self contained breathing apparatus for firefighting if necessary.

6. **ACCIDENTAL RELEASE MEASURES**

**Personal precautions**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist, dust or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

**Methods for cleaning up**

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

**Environmental precautions**

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

7. **HANDLING AND STORAGE**

**Handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where

dust is formed.

#### **Storage**

Keep in properly labeled and tightly closed containers in a dry, cool and well-ventilated place.

**Recommended storage temperature** +2°C - +8°C

### **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **Appropriate engineering controls**

General industrial hygiene practice.

#### **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**

Complete suit protection 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**

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### **9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Form:</b>	powder
<b>Odour</b>	no data available
<b>Odour Threshold</b>	no data available
<b>pH</b>	no data available
<b>Melting point/freezing point</b>	no data available
<b>Initial boiling point and boiling range</b>	no data available
<b>Flash point</b>	no data available
<b>Evaporation rate</b>	no data available
<b>Flammability (solid, gas)</b>	no data available
<b>Upper/lower flammability or explosive limits</b>	no data available
<b>Vapour pressure</b>	no data available
<b>Vapour density</b>	no data available
<b>Relative density</b>	no data available
<b>Water solubility</b>	no data available
<b>Partition coefficient: noctanol/water</b>	no data available
<b>Auto-ignition temperature</b>	no data available
<b>Decomposition temperature</b>	no data available
<b>Viscosity</b>	no data available
<b>Explosive properties</b>	no data available
<b>Oxidizing properties</b>	no data available

10. **STABILITY AND REACTIVITY**

<b>Reactivity</b>	no data available
<b>Chemical stability</b>	no data available
<b>Possibility of hazardous reactions</b>	no data available
<b>Conditions to avoid</b>	no data available
<b>Incompatible materials</b>	strong oxidizing agents
<b>Hazardous decomposition products</b>	no data available

11. **TOXICOLOGICAL INFORMATION**

<b>Acute toxicity</b>	LD50 Oral – rat- 430 mg/kg
<b>Potential Health effects</b>	
<b>Eyes</b>	May cause eye irritation.
<b>Skin</b>	May be harmful if absorbed through skin. May cause skin irritation.
<b>Inhalation</b>	May be harmful if inhaled. May cause respiratory tract irritation.
<b>Ingestion</b>	May be harmful if swallowed.
<b>Specific effects</b>	
<b>Carcinogenic effects</b>	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.
<b>Mutagenic effects</b>	No data available
<b>Reproductive toxicity</b>	Suspected human reproductive toxicant
<b>Sensitisation</b>	Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.
<b>Signs and Symptoms of Exposure</b>	
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.	
<b>Additional Information</b>	RTECS: WK4990000

12. **ECOLOGICAL INFORMATION**

<b>Toxicity</b>	
Toxicity to fish	LC50 – Oncorhynchus mykiss (rainbow trout) 180 mg/L - 96 h
Toxicity to aquatic invertebrates	EC50 – Daphnia magna (water flea) 650 mg/L - 48 h
<b>Persistence and degradability</b>	no data available
<b>Bioaccumulative potential</b>	no data available
<b>Mobility in soil</b>	no data available
<b>Results of PBT and vPvB assessment</b>	no data available
<b>Other adverse effects</b>	no data available

### 13. DISPOSAL CONSIDERATIONS

#### 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

### 15. REGULATORY INFORMATION

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

#### Chemical Safety Assessment

no data available

### 16. OTHER INFORMATION

#### Further 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. 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.