

MATERIAL SAFETY DATA SHEET

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

Product identifiers

Product name: Streptomycin sulfate, Powder
Product number: P06-11025P, P06-11050P, P06-11100P

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
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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 [EU-GHS/CLP]

Acute toxicity, Oral (Category 4), H302

Reproductive toxicity (Category 2), H361

Label elements

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

Pictogram



Signal word: Warning

Hazard statement(s)

H302 Harmful if swallowed.

H361 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.	Classification	Concentration
Streptomycin sulphate	3810-74-0	223-286-0	Resp. Sens. 1; Skin Sens. 1; H317, H334	≤ 100%

4. FIRST AID MEASURES

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance

Skin contact

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

Eye contact

Flush eyes with water as a precaution.

Ingestion

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

Inhalation

If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.

5. FIREFIGHTING 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 (NO_x), 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

Storage class (TRSG 510): Combustible solids

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Appropriate engineering controls

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

Safety glasses with side-shields. 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

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

10. STABILITY AND REACTIVITY

Reactivity	no data available
Chemical stability	stable under recommended storage conditions
Possibility of hazardous reactions	no data available
Conditions to avoid	no data available
Incompatible materials	strong oxidizing agents
Hazardous decomposition products	Carbon oxides, Nitrogen oxides (NOx)

11. TOXICOLOGICAL INFORMATION

Acute toxicity	LD50 Oral – rat- 430 mg/kg
Potential Health effects	
Serious eye damage/eye irritation	No data available.
Skin corrosion/irritation	No data available.
Respiratory or skin sensitisation	Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.
Germ cell mutagenicity	No data available.
Carcinogenic effects	
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	Suspected human reproductive toxicant
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: WK4990000

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

Liver – Irregularities – Based on Human Evidence

12. ECOLOGICAL INFORMATION

Toxicity

Toxicity to fish

LC50 – Oncorhynchus mykiss (rainbow trout) - >180 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates

EC50 – Daphnia magna (Water flea) 650 mg/l - 48 h

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.

Other adverse effects 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 chem 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

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 or reverse side of invoice or packing slip for additional terms and conditions of sale.