Safety data sheet

Penicillin Streptomycin Solution (100x)

Product name Penicillin Streptomycin Solution (100x)	Catalog no. PS100
Synonyms -	SDS revision -
CAS no. -	Format version / date 1.0 / 24 October 2026

01 PRODUCT AND COMPANY IDENTIFICATION

Product identifier	Penicillin Streptomycin Solution (100x)
Product code	PS100
CAS number	-
Recommended use	For research use only. Not intended for diagnostic or therapeutic use.
Supplier	EcoTech Biotechnology
Address	Universite Mah. İpekyolu Cad. Ata Teknokent Sitesi B Blok No: Z10 Yakutiye Erzurum Türkiye
Telephone	0090 544 327 34 97
SDS contact	info@ecotechbiotech.com
Emergency telephone	0090 544 327 34 97
Available	Monday-Saturday/08:00-20:00/GMT+3
Languages	Turkish/English
Outside these hours	Contact: info@ecotechbiotech.com

02 HAZARDS IDENTIFICATION

Classification	CLP health hazards: Respiratory sensitization 1 (H334); Skin sensitization 1 (H317); Reproductive toxicity 1B (H360FD). Physical/environmental hazards: Not classified.
Symbols / pictograms	
Signal word	Danger
Hazard statements	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317: May cause an allergic skin reaction. H360FD: May damage fertility. May damage the unborn child.
Precautionary statements - Prevention	P261: Avoid breathing dust/fume/gas/mist/vapours/spray. P280: Wear eye protection/face protection. P201: Obtain special instructions before use.
Precautionary statements - Response	P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. P308+P313: If exposed or concerned: Get medical advice/attention. P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Composition & response

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03 COMPOSITION / INFORMATION ON INGREDIENTS

Mixture	Penicillin Streptomycin Solution (100x)
Water	CAS 7732-18-5; EC 231-791-2; 97-98%.
Penicillin G, sodium salt	CAS 69-57-8; EC 200-710-2; 0.5-1.0%. Respiratory Sens. 1 (H334); Skin Sens. 1 (H317).
Streptomycin sulfate	CAS 3810-74-0; EC 223-286-0; 1.0%. Skin Sens. 1 (H317); Repr. 2 (H361d); Acute Tox. 4 (H302).
Sodium chloride	CAS 7647-14-5; EC 231-598-3; 0.9%.

04 FIRST AID MEASURES

4.1 Description of first aid measures

Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Skin contact	Rinse skin with water. Immediate medical attention is not required.
Inhalation	Get medical attention. If not breathing, give artificial respiration.
Ingestion	Do NOT induce vomiting. Get medical attention.
Self-protection of first aider	Use personal protective equipment as required.
Most important symptoms / effects	May cause allergy, asthma symptoms or breathing difficulties if inhaled, or an allergic skin reaction. Possible symptoms: rash, itching, swelling, dizziness, tingling, breathing difficulty, chest or muscle pain, or flushing.
Immediate medical attention / treatment	Treat symptomatically.

05 FIREFIGHTING MEASURES

Suitable extinguishing media	Water spray, carbon dioxide (CO2), foam or dry chemical.
Unsuitable extinguishing media	No information available.
Special hazards arising from the substance or mixture	Not known.
Explosion data	Sensitivity to mechanical impact and static discharge: No information available.
Advice for firefighters	Standard procedure for chemical fires.

Safe use & protection

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06 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Ensure adequate ventilation. Wear appropriate personal protective equipment and avoid inhaling mist, vapours or spray.
Environmental precautions	Avoid release to the environment. See Section 12 for additional ecological information.
Methods and materials for containment and cleaning up	Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.
Reference to other sections	See Sections 8 and 13.

07 HANDLING AND STORAGE

Precautions for safe handling	Use only under a chemical fume hood. Wear appropriate personal protective equipment and face protection. Ensure adequate ventilation. Avoid breathing mist, vapours and spray, skin or eye contact, or ingestion. Seek medical assistance if swallowed.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice. Keep away from food and drink; do not eat, drink or smoke. Wash hands before breaks and after work. Remove and wash contaminated clothing and gloves before reuse.
Conditions for safe storage	Keep container tightly closed and dry. Store in freezer at -20°C.

08 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

No occupational exposure values specified. Biological limit values: no components with established region-specific biological limits.

8.2 Exposure controls

Engineering measures	Ensure adequate ventilation, especially in confined areas.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or smoke. Wash hands, forearms and face after handling.
Eye / face protection	Tight-sealing safety goggles.
Hand protection	Wear suitable gloves. Use compatible chemical-resistant gloves.
Skin and body protection	Wear laboratory coat or impervious clothing. Choose protection appropriate for the amount and concentration at the workplace.
Respiratory protection	If ventilation is insufficient, wear an approved respirator.

Material properties

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09 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Liquid
Odor	No data available
Odor 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
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Solubility(ies)	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	None known, based on available information.
Chemical stability	Stable under recommended conditions.
Possibility of hazardous reactions	No data available
Conditions to avoid	Incompatible products. Excess heat.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Thermal decomposition can release irritating gases and vapours.

Health & environment

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11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	No evidence available indicating acute toxicity. Penicillin G sodium salt: LD50 oral 6916 mg/kg (rat). Streptomycin sulfate: LD50 oral 430 mg/kg (rat). Sodium chloride: LD50 oral 3 g/kg (rat).
Skin corrosion / irritation	No data available
Serious eye damage / eye irritation	No data available
Carcinogenicity	No data available
Reproductive toxicity	Category 1B. Reproductive and developmental toxicity reported in laboratory animal studies; teratogenic effects observed in experimental animals.
STOT - SE	No data available
STOT - RE	No data available
Aspiration hazard	No data available

11.2 Potential health effects

Potential symptoms / effects: May cause allergy or asthma symptoms, difficulty breathing, and allergic skin reactions. Tumorigenic effects have been reported in experimental animals. Endocrine disrupting properties: No known or suspected endocrine disruptors.

11.3 Additional information

No additional information is available.

12 ECOLOGICAL INFORMATION

Ecotoxicity	The mixture contains substances with aquatic hazard information. Sodium chloride: freshwater fish LC50 7650 mg/L/96 h; water flea EC50 1000 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 mixture does not contain substances assessed to be PBT or vPvB.
Endocrine disrupting properties	No known or suspected endocrine disruptors.
Other adverse effects	No known or suspected persistent organic pollutants or ozone depleting substances.

13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product	Contact a licensed waste disposal service to dispose of this material in accordance with federal, state and local requirements.
Contaminated packaging	Dispose of this container at a hazardous or special waste collection point.

Transport & reference

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14 TRANSPORT INFORMATION

Mode	UN no.	UN proper shipping name	Hazard class	Packing group	Environmental hazards
ADR/RID	Not applicable	Not regulated	Not applicable	Not applicable	No data available
IMDG	Not applicable	Not regulated	Not applicable	Not applicable	No data available
IATA	Not applicable	Not regulated	Not applicable	Not applicable	No data available

15 REGULATORY INFORMATION

EU/UK occupational and chemical safety	Observe Directives 98/24/EC, 94/33/EC and 92/85/EC; UK COSHH 2002 and 2005 amendment.
REACH authorisation / restrictions	Penicillin G sodium salt: Annex XVII restriction. Refer to relevant restriction conditions. Other mixture components: No additional restrictions indicated.
PFAS	Not applicable.
Water classification	WGK: Non-hazardous to water (self-classification).
Chemical Safety Assessment	A Chemical Safety Assessment/Report (CSA/CSR) has not been conducted.

16 OTHER INFORMATION

Key to abbreviations and acronyms

STOT-SE	Specific Target Organ Toxicity - Single Exposure
STOT-RE	Specific Target Organ Toxicity - Repeated Exposure
PBT	Persistent Bioaccumulative and Toxic
vPvB	very Persistent very Bioaccumulative and toxic
ADR	European Agreement concerning the international carriage of Dangerous goods by Road
CAS	Chemical Abstracts Service
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime code for Dangerous Goods
REACH	Registration, Evaluation, Authorization and restriction of Chemicals
RID	Regulations concerning the International transport of Dangerous goods by rail