Safety data sheet

ChemiPURE Kanamycin Sulfate

Product name ChemiPURE Kanamycin Sulfate	Catalog no. KS05, KS10, KS25
Synonyms Kanamycin monosulfate	Source SDS revision -
CAS no. 25389-94-0	Format version / date 3 / 25 October 2026

01 PRODUCT AND COMPANY IDENTIFICATION

Product identifier	ChemiPURE Kanamycin Sulfate
Product code	KS05 (5 g); KS10 (10 g); KS25 (25 g)
CAS number	25389-94-0
EC number	246-933-9
Recommended use	Laboratory research use only: microbiology, molecular biology and cell culture. Not for diagnostic, therapeutic or veterinary use.
Supplier	EcoTech Biotechnology
Website	www.ecotechbiotech.com
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	Resp. Sens. 1 (H334); Skin Sens. 1 (H317); Repr. 1B (H360FD) under Regulation (EC) No. 1272/2008 (CLP).
Label elements	GHS08 (health hazard). Restricted to professional users.
Symbols / pictograms	
Signal word	Danger
Hazard statements	H317 May cause an allergic skin reaction. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H360FD May damage fertility. May damage the unborn child.
Precautionary statements - Prevention	P201 Obtain special instructions before use. P261 Avoid breathing dust. P280 Wear protective gloves and eye protection. P284 Wear respiratory protection as appropriate.
Precautionary statements - Response	P302+P352 IF ON SKIN: Wash with water. P304+P340 IF INHALED: Remove to fresh air. P308+P313 If exposed or concerned: Get medical advice. P342+P311 If experiencing respiratory symptoms: Call a doctor.
Other hazards	Avoid dust exposure and release of antibiotic material into the environment.

Composition & response

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03 COMPOSITION / INFORMATION ON INGREDIENTS

Product name	ChemiPURE Kanamycin Sulfate
Synonyms	Kanamycin monosulfate; kanamycin A sulfate
Concentration	Single substance; product-specific purity / assay: No data available
Formula	C18H36N4O11·H2SO4
Molecular weight	582.58 g/mol
Substance statement	Kanamycin sulfate (CAS 25389-94-0; EC 246-933-9). Product-specific impurity or additive information: No data available.

04 FIRST AID MEASURES

4.1 Description of first aid measures

Eye contact	Immediately rinse eyes with plenty of water for at least 15 minutes, including under eyelids. Remove contact lenses if easy. Obtain medical advice.
Skin contact	Remove contaminated clothing. Wash skin thoroughly with soap and water for at least 15 minutes. Seek medical advice, particularly if allergic symptoms develop.
Inhalation	Move to fresh air and keep comfortable for breathing. Seek immediate medical attention for coughing, wheezing, asthma or other breathing symptoms.
Ingestion	Rinse mouth. Do not induce vomiting. Contact a physician or poison control center immediately.
Self-protection of first aider	Avoid direct contact and breathing dust. Wear protective gloves, eye protection and suitable respiratory protection during assistance.
Most important symptoms / effects	May cause allergic skin reaction, asthma-like breathing difficulties and reproductive harm following exposure.
Notes to physicians	Treat symptomatically. Inform the physician of potential aminoglycoside-related hypersensitivity and reproductive hazard.

05 FIREFIGHTING MEASURES

Suitable extinguishing media	Water spray, carbon dioxide (CO2), dry chemical powder or alcohol-resistant foam.
Unsuitable extinguishing media	No data available.
Special hazards arising from the substance or mixture	Heating or combustion may release irritating gases and vapors including carbon monoxide, carbon dioxide and nitrogen oxides.
Explosion data	Dust explosion characteristics: No data available. Avoid dispersing dust during firefighting.
Advice for firefighters	Use self-contained breathing apparatus and full protective clothing. Contain contaminated firefighting water.

Safe use & protection

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06 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Restrict access. Ensure adequate ventilation and avoid dust formation. Wear gloves, safety goggles, protective clothing and appropriate respiratory protection.
Environmental precautions	Prevent entry to drains, soil and surface water. Do not release antibiotic-containing waste to the environment.
Methods and materials for containment and cleaning up	Collect powder carefully without creating airborne dust; place in sealed, properly labelled containers for disposal. Clean residue with suitable damp methods.
Reference to other sections	See Sections 8 and 13 for exposure controls and waste disposal.

07 HANDLING AND STORAGE

Precautions for safe handling	Use local exhaust or a suitable enclosure when weighing. Avoid inhalation of dust, swallowing, and skin or eye contact. Obtain instructions before handling.
Conditions for safe storage	Keep tightly closed and dry at 4-8°C, protected from light, heat and moisture. Ship with blue ice. Keep away from strong oxidizing agents.
Container labeling	Keep original containers clearly labelled and closed. Restrict access to personnel trained to handle reproductive and sensitization hazards.

08 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

No established occupational exposure limit identified for kanamycin sulfate.

8.2 Exposure controls

Engineering measures	Use local exhaust ventilation / fume hood for dust-generating processes. Ensure eyewash facilities and emergency washing facilities are available.
Hygiene measures	Do not eat, drink or smoke during handling. Wash hands after use. Remove contaminated clothing and gloves before re-use.
Eye / face protection	Wear safety glasses with side shields or chemical safety goggles meeting EN 166.
Hand protection	Use suitable chemical-resistant gloves, such as nitrile; check glove integrity and supplier breakthrough times.
Skin and body protection	Wear laboratory coat, long sleeves and closed shoes. Avoid clothing contamination.
Respiratory protection	Prevent dust inhalation using enclosure / ventilation. Where required, use fit-tested particulate respirator with suitable EN 149 or EN 143 filter.

Material properties

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09 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Solid; white powder
Odor	Odorless
Odor threshold	No data available
pH	6.5-8.5 (1% aqueous solution)
Melting point / freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	Not applicable (solid)
Evaporation rate	Not applicable (solid)
Flammability (solid, gas)	No data available
Upper / lower flammability or explosive limits	No data available
Vapor pressure	No data available
Vapor density	Not applicable (solid)
Relative density	No data available
Solubility(ies)	Soluble in water
Partition coefficient: n-octanol / water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	Not applicable (solid)
Explosive properties	No data available
Oxidizing properties	No data available

10 STABILITY AND REACTIVITY

Reactivity	No hazardous reactivity known under normal handling conditions.
Chemical stability	Stable under recommended storage and handling conditions.
Possibility of hazardous reactions	No hazardous polymerization expected under normal conditions.
Conditions to avoid	Excess heat, moisture, dust formation and incompatible substances.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Thermal decomposition may release carbon monoxide, carbon dioxide and nitrogen oxides.

Health & environment

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11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	Not classified for acute toxicity based on available data; reported oral LD50 (mouse): 17,500 mg/kg.
Skin corrosion / irritation	Skin sensitizer, Category 1 (H317). May cause an allergic skin reaction.
Serious eye damage / eye irritation	Specific data for serious eye damage or irritation: No data available.
Carcinogenicity	No data available for classification as carcinogenic.
Reproductive toxicity	Repr. 1B (H360FD): May damage fertility. May damage the unborn child.
STOT - SE	No data available for specific target organ toxicity after single exposure.
STOT - RE	No data available for specific target organ toxicity after repeated exposure.
Aspiration hazard	Not applicable to a solid.

11.2 Potential health effects

Ingestion: Seek medical attention after exposure.
Inhalation: Respiratory sensitization may cause asthma-like symptoms or breathing difficulty.
Skin: May cause an allergic skin reaction including rash and itching.
Eyes: Direct contact may cause discomfort; rinse thoroughly.

11.3 Additional information

Exposure may be associated with allergic symptoms. No further product-specific toxicological data available.

12 ECOLOGICAL INFORMATION

Ecotoxicity	Do not discharge into drains or waterways. Product-specific ecotoxicity data: No data available.
Persistence and degradability	Product-specific degradation data: No data available.
Bioaccumulative potential	Bioaccumulation is unlikely based on available information.
Mobility in soil	Water soluble; may spread in water systems and move through soils.
Results of PBT and vPvB assessment	No product-specific PBT or vPvB assessment data available.

13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product	Dispose of unused antibiotic and collection residues through a licensed chemical-waste contractor according to applicable local regulations. Do not pour down drains.
Contaminated packaging	Treat contaminated packaging as chemical waste. Do not reuse empty containers.

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 regulated	-	-	No
IMDG	-	Not regulated	-	-	No
IATA	-	Not regulated	-	-	No

15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation	Regulation (EC) No. 1907/2006 (REACH) and Regulation (EC) No. 1272/2008 (CLP). Kanamycin sulfate: CAS 25389-94-0, EC 246-933-9. CLP classification: Resp. Sens. 1; Skin Sens. 1; Repr. 1B.
Environmental hazards	Not identified as environmentally hazardous for transport; prevent releases of antibiotic material to water and soil.
Chemical safety assessment	No product-specific chemical safety assessment information available.

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