

MSDS

Material Safety Data Sheet

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)
Classification according to Regulation (EC) No. 1272/2008 [CLP]

1. Product and Company Identification

Product Name	Kanamycin Sulfate, from <i>Streptomyces kanamyceticus</i>
Product References	TBR0118 (5 g)
Brand	TIARIS BIOSCIENCES
Manufacturer/ Supplier	Tiaris Biosciences SL Parque Tecnológico Rabanales 21, Edificio Aldebarán, Calle Astrónoma Cecilia Payne s/n. 14014. Córdoba, España Phone: +34 681 867 714 mailto: info@tiarisbiosciences.com web: www.tiarisbiosciences.com
Emergency Telephone	900-868538 (CHEMTREC Spain) +34 931 768 545 (CHEMTREC International)

2. Hazards Identification

2.1. Classification According to Regulation (EC) N°1272/2008 (EU-GHS/CLP)

H317 Causes skin irritation (Category 1).

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled (Category 1).

H360FD May cause reproductive toxicity. May damage the unborn child. (Category 1B).

2.2. Label Elements and Precautionary Statements

Pictogram



Signal Word

DANGER

P201 Obtain special instructions before use.

P261 Avoid breathing dust.

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

P308+P313 If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/ physician.

P405 Store locked up.

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3. Composition / Information on Components

Chemical Name	CAS Number	EC Number	Weight (%)	Classification according to Regulation (EC) No.1272/2008 [CLP]
Kanamycin, Kanamycin A	25389-94-0	246-933-9	>95	Skin Sens. 1 (H317) Resp. Sens. 1 (H334) Repr. 1B (H360FD)

4. First-Aid Measures

Inhalation	Remove to fresh air. Keep respiratory tract clear. If not breathing, give artificial respiration. If symptoms persist, call a doctor.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Immediate medical attention is required.
Eye Contact	Remove contact lenses. Flush with running water for 15 minutes. Requires medical attention.
Ingestion	Requires immediate medical attention. Rinse mouth with water. Never give anything by mouth to an unconscious person.
Notes to Physician	Not information available.

5. Fire Fighting Measures

Extinguish Media	
Suitable Extinguish Media	Water spray, alcohol resistant foam, dry chemical or carbon dioxide
Unsuitable Extinguish Media	No limitations of extinguishing agents are given.
Special hazards during fire fighting	Development of hazardous combustions gases or vapours is possible in the event of fire. Decomposition products: Carbon oxides, nitrogen oxides, sulfur oxides, combustible.
Advice for firefighters	In the event of fire stay in the danger area only with self-contained breathing apparatus. Prevent skin contact. Suppress gases/ vapours/ mists with a water spray.

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6. Accidental Release Measures

Personal Precautions, protective equipment and emergency procedures	<p>Ensure adequate ventilation.</p> <p>Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.</p> <p>Use personal protection equipment.</p> <p>Evacuate the danger area.</p>
Environmental Precautions	<p>Prevent product from entering drains.</p>
Methods and Material for Containment and Cleaning up	<p>Cover drains. Collect, bind and pump off spills</p> <p>Avoid generation of dust.</p> <p>Clean up affected area and dispose of properly.</p>

7. Handling and Storage

Advice on protection against fire and explosion	<p>Normal measures for preventive fire protection.</p>
Precautions for Safe Handling	<ul style="list-style-type: none"> - Work under hood. Do not inhale substance/ mixture - Do not breathe vapors/dust. - Avoid contact with skin and eyes. - Wash hands and face after working with substance.
Conditions for Safe Storage, Including Any Incompatibilities	<p>Keep container tightly closed in a dry and well-ventilated place, accessible only to qualified or authorized persons.</p> <p>Storage Class (TRGS): 6.1C, Combustible, acute toxic (Cat 3) Toxic compounds or compounds which causing chronic effects</p>
Specific End Use(s)	<p>For research use only</p>

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8. Exposure Control/ Personal Protection

Personal Protective Equipment:

Respiratory Protection

Required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Recommended Filter type: Filter type P3.

Hand 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.

Eye Protection

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin Protection.

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

Wash hands before breaks and at the end of workday.

Keep away from food and drink.

Ensure adequate ventilation, especially in confined areas.

Avoid contact with the skin and the eyes.

9. Physical and Chemical Properties

Appearance:	Powder
Form:	Solid
Colour:	Light yellow
Odour:	Odourless
pH (Value):	6.5-8.5 (1%)
Boiling Point:	No data available
Melting Point:	No data available
Flammable Limits:	No data available

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Auto Ignition Temperature:	No data available
Explosive Properties:	No data available
Oxidising Properties:	None
Vapour Pressure (mm Hg):	No data available
Density (g/ml):	No data available
Solubility (Water):	50 g/L
Solubility (Other):	No data available
Partition Coefficient:	No data available

10. Stability and Reactivity

Possibility of Hazardous Reaction:	Keep away from oxidizing agents, violent reactions are possible.
Chemical Stability:	Stable under standard ambient conditions (room temperature).
Hazardous Decomposition Product(s):	Carbon monoxide, carbon dioxide, nitrogen oxides
Conditions to avoid:	None known.
Incompatible Materials:	Strong oxidizing agents.

11. Toxicology Information

Acute toxicity:

Acute oral toxicity: Rat, LD50 > 4000mg/ kg | Mouse, 17500 mg/kg.

Acute inhalation toxicity: no data available.

Acute dermal toxicity: no data available.

Skin corrosion/irritation: no data available information.

Serious eye damage/eye irritation: no data available information.

Respiratory or skin sensitization: no data available information.

Germ cell mutagenicity: no data available.

Carcinogenicity: no data available.

IARC: not listed.

NTP: not listed.

OSHA: not listed.

Reproductive toxicity: May damage the unborn child.

Teratogenicity: no data available.

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Specific target organ toxicity – single exposure (GHS): no data available.

Specific target organ toxicity – repeated exposure (GHS): no data available.

Aspiration hazard: no data available.

Endocrine Disrupting Properties: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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	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.

13. Disposal Considerations

Waste treatment methods:

No data available.

14. Transport Information

IATA / ADR / DOT-US / IMDG:	Not dangerous goods
UN number or ID number:	Not Applicable.
UN Proper Shipping Name:	Not Applicable.
Transport Hazard Class(es):	Not Applicable.
Packing Group:	Not Applicable.
Special Precautions for User:	Not Applicable.
Maritime Transport in Bulk according to IMO Instruments:	Not Applicable.

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15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture	None
Chemical Safety Assessment	None

16. Other 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. *Tiaris Biosciences* shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.