Safety Data Sheet

1: Identification of substance / mixture

1. Product Identifier

Substance

Product Name	**KANAMYCIN MONOSULPHATE**
Product Code	K22000.
CAS Number	25389-94-0
Other Names	
IUPAC	
MFCD Number	
EC/EINECS	246-933-9
REACH Number	Index-No

2. Relevant identified uses of the substance or mixture and uses advised against

For research and laboratory use only.

3. Details of the supplier of the safety data sheet

Melford Laboratories Ltd
Bildeston Road,Chelsworth
Ipswich
Suffolk
IP77LE
UK

Telephone: 01449 741178
Fax: 01449 741217
Email: support@melford.co.uk

4. Emergency telephone number

+44(0)1449 741178 -

2. Hazards Identification

1. Classification of the substance or mixture

H317	Skin Sens. 1A	
H334	Resp. Sens. 1	
H360	Repr. 1A	

2. Label elements

Signal Word **Danger**

Hazard Statements

H317	May cause an allergic skin reaction.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H360	May damage fertility or the unborn child ..

Precautionary Phrases

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P281	Use personal protective equipment as required.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P405	Store locked up.
P501	Dispose of contents/container to in accordance with local regulation.

3. Other Hazards

Additional precautionary phrases are located throughout the safety data sheet

3. Composition / Information on Ingredients

1. Substances

Product Name	Hazards	Concentration
KANAMYCIN MONOSULPHATE		
CAS Number: 25389-94-0 EC/EINECS: 246-933-9	H317, H334, H360 Repr. 1A, Resp. Sens. 1, Skin Sens. 1A	<=100%

4. First Aid Measures

1. Description of first aid measures

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

Eye Contact Flush eyes with water as a precaution
Ensure adequate flushing by separating the eyelids with fingers
Consult a doctor.

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

Inhalation If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
If unconscious and breathing is OK, place in the recovery position.
If unconscious, check for breathing and apply artificial respiration if necessary.
If breathing becomes bubbly, have the casualty sit and provide oxygen if available.
Consult a doctor

2. Most important symptoms and effects

P308 + P313: IF exposed or concerned: Get medical advice/attention.
The most important known symptoms and effects are described in section 11

3. Indication of any immediate medical attention

no data available
Notes to Physician: Treat symptomatically

5. Firefighting measures

1. Extinguishing Media

Suitable Water spray.
Alcohol resistant foam.
Dry chemical powder.
Carbon dioxide.

Unsuitable no data available

2. Special Hazards arising from the substance or mixture

In combustion toxic fumes may form:
Carbon oxides, nitrogen oxides (NOx), sulfur oxides

3. Advice for Fire Fighters

Wear self-contained breathing apparatus.

6. Accidental Release Measures

1. Personal Precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.
Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8

2. Environmental Precautions

Do not discharge into drains or rivers.

3. Methods & Materials

Transfer to a closable, labelled salvage container for disposal by an appropriate method.
Clean-up should be dealt with only by qualified personnel familiar with the specific substance.

4. Preventing the occurrence of secondary hazards.

Clean up all spills immediately. Wear suitable PPE.

7.Handling and Storage

1. Personal Precautions

Safe Handling	Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. P201: Obtain special instructions before use.
Protection against explosions and fires	P202: Do not handle until all safety precautions have been read and understood. Normal measures for preventive fire protection.

2. Conditions for safe storage, including any incompatibilities

Managing Storage Risks	Keep container tightly closed. Store in cool, well ventilated area.
Storage Controls	No special requirements
Maintaining Integrity	No special requirements
Other advice	P405: Store locked up.

3. Specific End Uses

The end use(s) have not been fully determined. The substance is supplied for Research and Development purposes by professionals only.

8. Exposure Controls/Personal Protection

1. Control Parameters

No Data Available

2. Exposure Controls

General protective and hygiene measures	P281: Use personal protective equipment as required. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Engineering measures	Provide appropriate exhaust ventilation at places where dust is formed.
Eye / Face 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)
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. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it
Respiratory protection	Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or 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).
Skin protection	Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Other personal protection advice	No data available

9. Physical and Chemical Properties

1. Physical and Chemical Properties

Appearance	Powder
Odour	No Data Available

Odour threshold	No Data Available
PH	6.5-8.5
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
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
Oxidising properties	None

2. Other Information

None Available

10. Stability and Reactivity

1. Reactivity

no data available

2. Stability

Stable under recommended storage conditions.

3. Possibility of Hazardous Reactions

no data available

4.Conditions to Avoid

no data available

5. Incompatible Materials

Strong oxidizing agents.

6. Hazardous Decomposition Products

In combustion emits toxic fumes: Carbon monoxide, carbon dioxide, nitrogen oxides, sulfurt oxides

11. Toxicology information

1. Information

Acute Toxicity

LD50 Oral-rat-> 4,000 mg/kg
LD50 Intravenous-rat-225 mg/kg
LD50 Intramuscular-rat-> 4,000 mg/kg
LD50 Subcutaneous-rabbit-> 3 g/kg
LD50 Intravenous-rabbit-550 mg/kg
LD50 Intramuscular-rabbit-> 3 g/kg
LD50 Intraperitoneal-mouse-1,353 mg/kg
LD50 Subcutaneous-mouse-1,100 mg/kg
Remarks: Behavioral:Change in motor activity (specific assay). Lungs, Thorax, or Respiration.
Other changes: Nutritional and Gross Metabolic:Changes in body temperature- decrease.
TDLo Intramuscular-rat-female-4,400 mg/kg
TDLo

Skin corrosion/irritation

no data available

Serious eye Damage/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
Carcinogenicity	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	Reproductive toxicity-rat-female-Intramuscular Maternal Effects: Other effects. Specific Developmental Abnormalities: Urogenital system. Reproductive toxicity-rat-female-Subcutaneous Effects on Embryo or Fetus: Fetal death. Specific Developmental Abnormalities: Musculoskeletal system. Reproductive toxicity-guinea pig-female-Intramuscular Specific Developmental Abnormalities: Eye, ear. Presumed human reproductive toxicant
STOT-single exposure	no data available
STOT-repeated exposure	no data available
Aspiration hazard	no data available

2. Additional

RTECS:NZ3225030
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

1. Toxicity

no data available

2. Persistence and degradability

no data available

3. Bio-Accumulative Potential

no data available

4. Mobility and Soil

no data available

5. Results of PBT & vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

6. Other adverse effects

no data available

13. Disposal Considerations

1. Waste Treatment Methods

Disposal Operations	Hand over to authorised disposal company as hazardous waste.
Disposal of Packaging	Disposal must be made according to official regulations.

14. Transport Information

Air (ICAO)

Not classified as hazardous for transport

Road (ADR)

Not classified as hazardous for transport

Sea (IMDG)

Not classified as hazardous for transport

15. Safety, health, environmental and national regulations

1. Safety, health, environmental and national regulations:

product is not subject to any additional regulations or provisions

2. Safety Assessment

No Chemical Safety Assessment

16. Other Information

1. Other Information:

This safety data sheet complies to the requirements of Regulation (EC) No. 1907/2006
ADR: Accord Europeen sur le transport des merchandises Dangereuses par Route(European Agreement concerning the International Carriage of Dangerous Goods by road)
RID:Reglement International concernant le transport des merchandises dangereuses par chemin de fer (Regulations concerning the International transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the International Air Transport Association
ICAO:International Civil Aviation Organization
ICAO-TI: Technical Instructions by the ICAO
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
CAS:Chemical Abstracts Service

3. Disclaimer

The product listed is for research and development purposes only and not for human or animal use. As such, in most cases, the toxicological, ecological and physicochemical properties have not been fully determined and the product should be treated with respect and always handled under suitable conditions by appropriately qualified personnel. The responsible party shall use this datasheet only in conjunction with other sources of information gathered by them, and should make an independent judgement of suitability, to ensure proper use and protect the health and safety of employees. This information is furnished without warranty and any use of the product not in conformance with this material safety data sheet, or in combination with any other product or process, is the responsibility of the user.
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