Kanamycin Monosulphate

KAN0005
KAN0025

SECTION 1 Identification of the Substance/Mixture and of the Company/Undertaking

1.1. Product identifier

Identification of the product : Raw Material
Product code : KAN0005, KAN0025
Trade name : Kanamycin Monosulphate
CAS number : 25389-94-0

Danger

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

Use : For research purposes only

1.3. Details of the supplier of the safety data sheet

Company identification : **Formedium Ltd.**
King's Lynn, England, PE31 6DJ
Tel: +44(0)1485 609069
Web: www.formedium.com
E-mail: info@formedium.com

1.4. Emergency telephone number

Emergency phone nr : Tel: +44(0)1485 609069 (local time : 9.00 to 17.00)
National Poison Information Centre :Europe UK : +44 0845 4647 (this service is only available to health professionals)
See www.toxbase.org for a local poison centre

SECTION 2 Hazards Identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008

Reproductive toxicity (Category 1B) : H360 – May damage fertility or the unborn child.
Specific target organ toxicity – repeated exposure (Category 2)

Signal Word: DANGER

2.2. Label elements

Labelling according to Regulation (EC) 1272/2008

Hazard statement(s): H360 – May damage fertility or the unborn child.

Precautionary statement(s): P201 – Obtain special instructions before use.
P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.

2.3. Other hazards

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.

SECTION 3 Composition/Information on Ingredients

Hazardous ingredients according to Regulation (EC) No 1272/2008

Component

Substance name	contents	CAS No	EC No	Classification
Kanamycin monosulphate	<=100 %	25389-94-0	246-933-9	Repr.1B; H360

Formula: C18H36N4O11 – H2SO4
Molecular Weight: 582,60 g/mol

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4 First Aid Measures

4.1. Description of First Aid Measures

- **General advice** : Consult a physician. Show this safety data sheet to the doctor in attendance.
- **Inhalation** : If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
- **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.

4.2. Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.3. Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5 Fire-fighting Measures

5.1. Extinguishing media

Suitable extinguishing media : Alcohol resistant foam, Carbon Dioxide (C°2), Water Spray, Dry chemical

5.2. Special hazards arising from the substance or mixture

No data available.

5.3. Advice for fire-fighters

If necessary, wear self-contained breathing apparatus for firefighting.

5.4. Further information

No data available.

SECTION 6 Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

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.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Discharge into the environment must be avoided.

6.3. Methods and material for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

For disposal, see section 13

SECTION 7 Handling and Storage

7.1. Precautions for safe handling

Avoid formation of dust and aerosols. Avoid exposure – obtain special instructions before use.

Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2. Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature 2 – 8 °C

7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8 Exposure Controls / Personal Protection

8.1. Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2. Exposure controls

Handle in accordance with 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 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:	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. Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min
Body 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.
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).

Control of environmental exposure Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

SECTION 9 Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

a)	Appearance	Form: solid
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	No data available.
f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available.
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2. Other safety information

No data available

SECTION 10 Stability and Reactivity

10.1. Reactivity
No data available

10.2. Chemical stability
Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions
No data available

10.4. Conditions to avoid
No data available

10.5. Incompatible materials
Strong oxidizing agents.

10.6. Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides
Other decomposition products - No data available.
In the event of fire: see section 5

SECTION 11 Toxicological Information

11.1. Information on toxicological effects

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 mg/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: Behavioural 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 Intramuscular – Child – 390 mg/kg
Remarks: Sense organs and Special Senses (Nose, Eye, ear and Taste) : Ear: Change in acuity.

Skin corrosion/irritation
No data available.

Serious eye damage/eye 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 Foetus: Foetal death. Specific Developmental Abnormalities: Musculoskeletal system.

Reproductive toxicity – Guinea Pig – female – Intramuscular
Specific Developmental Abnormalities: Eye, ear.

SECTION 11 Toxicological Information (continued)

Reproductive toxicity (continued)
Presumed 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: NZ3225030
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Liver - Irregularities - Based on Human Evidence

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.

SECTION 12 Ecological Information

12.1. Toxicity
No data available.

12.2. Persistence and degradability
No data available.

12.3. Bioaccumulative potential
No data available

12.4. Mobility in soil
No data available

12.5. 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.

12.6. Other adverse effects
No data available.

12.7 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.

SECTION 13 Disposal Considerations

13.1. Waste treatment methods
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 chemical incinerator with an afterburner and scrubber.

Contaminated packaging : Dispose of as unused product

SECTION 14 Transport Information

14.1. UN Number

ADR/RID: - IMDG: - IATA: -

14.2. UN Proper Shipping Name

ADR/RID: Not dangerous goods
IMDG: Not dangerous goods
IATA: Not dangerous goods

14.3. Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

14.4. Packaging Group

ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards

ADR/RID: No IMDG Marine pollutant: No IATA: No

14.6. Special precautions for user

No data available.

SECTION 15 Regulatory Information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety datasheet complies with the requirements of Regulation (EC) No. 2015/830

15.2. Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

SECTION 16 Other Information

Full text of H-Statements referred to under sections 2 and 3.
H360 May damage fertility or the unborn child.

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. Formedium Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product.

Revision: Complete SDS revision.

End of document