

Safety Data Sheet

SECTION 1 CHEMICAL IDENTIFICATION

PRODUCT NAME: KANAMYCIN SULFATE 50MG/ML SOLUTION

ALTERNATE NAME: O-3-AMINO-3-DEOXY- α -D-GLUCOPYRANOSYL-(16)-O-[6-AMINO-6-DEOXY- α -D-GLUCOPYRANOSYL-(14)]-2-DEOXY-D-STREPTAMINE SULFATE; CANTREX; CRISTALOMICINA; ENTEROKANACIN; KAMYCIN; KANABRISTOL; KANAMYTREX; KANAQUA; KANASIG;

Catalog Number: MBS651522

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APPLICATION

CREATION DATE 11/24/2020

REVISION DATE

CAS NO: 25389-94-0

MOLECULAR WEIGHT: 582.58

MOLECULAR FORMULA: $C_{18}H_{36}N_4O_{11} \cdot H_2SO_4$



ATTENTION

This product is in liquid form. Per section 1910.1200(d) of title 29 CFR, hazardous ingredients at less than 1% and carcinogens at less than 0.1% are considered non-hazardous.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification:

Reproductive toxicity (Category 1B), H360

Signal Word: Danger

Hazard Statements:

T: Toxic

H360: May damage fertility or the unborn child

Precautionary Statements:

P202: Do not handle until all safety precautions have been read and understood.

P308+P313: If exposed or concerned: Get medical advice/ attention

P405: Store locked up

P501: Dispose of contents/container to an approved waste disposal plant

NFPA CLASSIFICATION:

HEALTH: 1

FLAMMABILITY: 0

PHYSICAL HAZARDS: 0

HMIS CLASSIFICATION:

HEALTH: 0

FLAMMABILITY: 0

REACTIVITY: 0

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>SUBSTANCE</u>	<u>CAS NO.</u>	<u>EC#</u>	<u>%</u>	<u>CLASSIFICATION*</u>
Kanamycin Sulfate	25389-94-0	246-933-9	50mg/ml	T, H360

Synonyms:

O-3-Amino-3-deoxy- α -D-glucopyranosyl-(16)-O-[6-amino-6-deoxy- α -D-glucopyranosyl-(14)]-2-deoxy-D-streptamine Sulfate; Cantrex; Cristalomicina; Enterokanacin; Kamycin; Kanabristol; Kanamytrex; Kanaqua; Kanasig; Kanatrol; Kanescin; Otokalixin; Resistomycin; Amikacin EP Impurity D Sulfate

SECTION 4. FIRST-AID MEASURES

Skin contact: Remove contaminated clothing and wash the exposed skin area thoroughly with soap and water.

Eye contact: Flush with copious amounts of water for at least 15 minutes. Seek medical attention.

Inhalation: Remove to fresh air, give oxygen if breathing becomes difficult and seek medical attention.

Ingestion: Flush mouth with copious amounts of water, provided that the person is conscious and seek medical attention.

SECTION 5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water spray, dry chemical, foam or carbon dioxide.

Special firefighting procedures: wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Body precautions: Wear rubber gloves, impermeable shoe covers and long laboratory coat.

Environmental precautions: Contain the spill to the smallest area possible.

Cleaning measures: Take care not to contaminate body. Absorb the material with disposable towels. Wash area with disposable towels. Transfer contaminated absorbent to a chemical waste container for disposal. Dispose of all contaminated trash in accordance with local regulations.

SECTION 7. HANDLING AND STORAGE

Avoid inhalation and contact with eyes and skin. Avoid prolonged or repeated exposure.

Storage: Store at 4°C.

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Safety shower and eye bath. Use only in a chemical fume hood. Wash contaminated clothing before reuse. Wash thoroughly after handling. Do not breathe dust. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure. Niosh/Osha-approved respirator. Compatible chemical-resistant gloves. Chemical safety goggles. Keep tightly closed.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Supplied as a liquid in 0.9% saline

SECTION 10. STABILITY AND REACTIVITY

Stability: Stable

Conditions to Avoid: Strong oxidizing agents

Hazardous Decomposition Products: May form carbon and nitrogen oxides.

Hazardous polymerization: Will not occur

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Acute toxicity:

LD50 Oral - rat - >4000mg/Kg

Inhalation: No data available

Dermal: No data available

LD50 Intravenous - Rat - 225mg/Kg

LD50 Intramuscular - rat - >4000mg/Kg

LD50 Subcutaneous - rabbit - >3g/Kg

LD50 Intravenous - rabbit - 550mg/Kg

LD50 Intramuscular - rabbit - >3g/Kg

LD50 Intraperitoneal - mouse - 1353mg/Kg

LD50 Subcutaneous - mouse - 1100mg/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 - 4400mg/Kg

TDLo Intramuscular - Child - 390mg/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 sensitization: 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.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: No data available

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

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

SECTION 12. ECOLOGICAL INFORMATION

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Observe all federal, state and local environmental regulations.

SECTION 14. TRANSPORT INFORMATION

DOT (US): Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

SECTION 15. REGULATORY INFORMATION

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Chronic Health Hazard

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

	CAS No.	Revision Date
Kanamycin sulfate	25389-94-0	

New Jersey Right To Know Components

	CAS No.	Revision Date
Kanamycin sulfate	25389-94-0	

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16. OTHER INFORMATION

Recommended use: For research use only not for use on or in humans and animals. Consider all materials as potentially infectious and use only approved FDA and NIH guidelines for the proper handling and disposal of infectious material. Only authorized and trained personnel should handle this reagent.

DISCLAIMER:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide for experienced personnel. MyBioSource, Inc., shall not be held liable for any damage resulting from the handling of or from contact with the above product. The burden of safe use of this material rests entirely with the user.