

SAFETY DATA SHEET

[Required under safety and health regulations for shipping and handling]

Version: 2022
Date Updated: December 31, 2022

SECTION 1. ----- PRODUCT AND COMPANY IDENTIFICATION -----

Product Name Kanamycin sulfate solution (30mg/ml, Sterile)
Product Code(s) BSAT005010
Recommended Use For Laboratory Research Use Only
Not for Human or Animal Drug Use

Supplier Bio Basic Asia Pacific Pte Ltd.
Address 2 International Business Park Road
Strategy #01-04, Singapore 609930
Telephone (+65) 6954 2519
(+65) 6491 5938
Email sg@biobasic-asia.com

SECTION 2. ----- HAZARDS IDENTIFICATION -----

Classification of the substance or mixture

Reproductive toxicity, Category 1B

GHS label elements, including precautionary statements

Hazard pictogram(s)



Signal word Danger
Hazard statement(s) H360 May damage fertility or the unborn child

Precautionary statement(s)

Prevention	P280 Wear protective gloves/protective clothing/eye protection/face protection
	P203 Obtain and follow all safety instruction before use
Response	P318 IF exposed or concerned, get medical advice
Storage	P405 Store locked up
Disposal	P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

SAFETY DATA SHEET

[Required under safety and health regulations for shipping and handling]

SECTION 3. ----- COMPOSITION/INFORMATION ON INGREDIENTS -----

Substances

Not applicable

Mixtures

Chemical Name	Common Names and Synonyms	CAS number	EC number	% [weight]
Kanamycin sulphate	Kanamycin Sulfate	25389-94-0	246-933-9	3%
Water	Water	7732-18-5	231-791-2	-

SECTION 4. ----- FIRST-AID MEASURES -----

Description of necessary first-aid measures

Following inhalation

Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.

In case of skin contact

Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes (remove contact lenses if possible) and consult a physician.

If swallowed

Rinse mouth with water. Do not drink anything. Do NOT induce vomiting. Consult a physician/Poison Control Center immediately

Most important symptoms/effects, acute or delayed

No data available

indication of immediate medical attention and special treatment needed, if necessary

Absorption, Distribution and Excretion

Kanamycin is excreted primarily by kidney, mostly by glomerular filtration, but some is secreted by tubules. only 0.3-1.5% of ingested dose is excreted in urine because of poor enteric absorption. from 40-80% of parenteral dose is recoverable in urine in 24-hr period after injection

SECTION 5. ----- FIRE FIGHTING MEASURES -----

Suitable extinguishing media

Use dry chemical, carbon dioxide or alcohol-resistant foam

SAFETY DATA SHEET

[Required under safety and health regulations for shipping and handling]

Special hazards arising from the substance or mixture

Hazardous combustion products

No data available

Advice for firefighters

Wear self-contained breathing apparatus for fire-fighting if necessary

SECTION 6. - - - - - ACCIDENTAL RELEASE MEASURES - - - - -

Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing mist, gas or vapors. Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Environmental precautions

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations

SECTION 7. - - - - - HANDLING AND STORAGE - - - - -

Precautions for safe handling

Handling in a well-ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam

Conditions for safe storage, including any incompatibilities

Kanamycin sulfate capsules should be stored in tight containers at a temperature less than 40°C, preferably between 15-30 °C. Kanamycin sulfate injection should be stored at a temperature less than 40°C, preferably between 15-30°C; freezing should be avoided. Kanamycin sulfate

SECTION 8. - - - - - EXPOSURE CONTROLS/PERSONAL PROTECTION - - - - -

Control parameters

Occupational Exposure limit values

No data available

Appropriate engineering controls

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk elimination area.

Personal protective equipment

Eye/face protection

Wear tightly fitting safety goggles with side-shields conforming to EN 166(EU) or NIOSH(US)

Skin protection

Wear fire/ flame resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use. 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.

SAFETY DATA SHEET

[Required under safety and health regulations for shipping and handling]

Respiratory protection

If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-face respirator

SECTION 9. ----- PHYSICAL AND CHEMICAL PROPERTIES -----

Information on basic physical and chemical properties

Physical state	Liquid
Appearance	No data available
Color	pure CAS 25389-94-0: CRYSTALS FROM METHANOL + ETHANOL
Odor	No data available
pH	No data available
Melting point/freezing point	pure CAS 25389-94-0: 250°C (lit.); pure CAS 7732-18-5: 0°C
Initial boiling point and boiling range	pure CAS 25389-94-0: 187°C/15mmHg(lit.); pure CAS 7732-18-5: 100°C (lit)
Flash point	pure CAS 25389-94-0: 60°C(lit.); pure CAS 7732-18-5: 100°C
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapor pressure	pure CAS 7732-18-5: 3mm Hg (37 °C)
Vapor density	pure CAS 7732-18-5:
Relative Density	pure CAS 7732-18-5: 1.000g/ml at 3.98°C(lit.)
Water solubility	No data available
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Viscosity	No data available
Particle characteristic	No data available

SECTION 10. -----STABILITY AND REACTIVITY -----

Reactivity

No data available

Chemical stability

Kanamycin sulfate is stable for 24 hours at room temperature in most iv infusion fluids including 0.9% sodium chloride or 5% dextrose injection. Kanamycin sulfate

Possibility of hazardous reactions

No data available

Conditions to avoid

SAFETY DATA SHEET

[Required under safety and health regulations for shipping and handling]

No data available

Incompatible materials

No data available

Hazardous decomposition products

When heated to decomposition it emits toxic fumes of nitroxides.

SECTION 11. ----- TOXICOLOGICAL INFORMATION -----

Acute toxicity

Oral: pure CAS 25389-94-0: LD50 Mouse oral 20,500mg/kg

Inhalation: No data available

Dermal: No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

SECTION 12. ----- ECOLOGICAL INFORMATION -----

Toxicity

Toxicity to fish: No data available

Toxicity to daphnia and other aquatic invertebrates: No data available

Toxicity to algae: No data available

Toxicity to microorganisms: No data available

Persistence and degradability

No data available

SAFETY DATA SHEET

[Required under safety and health regulations for shipping and handling]

Bio accumulative potential

No data available

Mobility in soil

No data available

SECTION 13. ----- DISPOSAL CONSIDERATIONS -----

Disposal methods

Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging material

SECTION 14. ----- TRANSPORT INFORMATION -----

UN number

ARD/RID: Not dangerous goods

IMGD: Not dangerous goods

IATA: Not dangerous goods

UN Proper Shipping Name

ARD/RID: Not dangerous goods

IMGD: Not dangerous goods

IATA: Not dangerous goods

Transport hazard class(es)

ARD/RID: Not dangerous goods

IMGD: Not dangerous goods

IATA: Not dangerous goods

Packing groups, if applicable

ARD/RID: Not dangerous goods

IMGD: Not dangerous goods

IATA: Not dangerous goods

Environmental hazards

ARD/RID: No

IMGD: No

IATA: No

SAFETY DATA SHEET

[Required under safety and health regulations for shipping and handling]

SECTION 15. ----- REGULATORY INFORMATION -----

Chemical name	Common names and synonyms	CAS number	EC number
Kanamycin Sulphate	Kanamycin Sulphate	25389-94-0	246-933-9
European Inventory of Existing Commercial Chemical Substances (EINECS)			Listed
EC Inventory			Listed
United States Toxic Substances Control Act (TSCA) Inventory			Not Listed
China Catalog of Hazardous chemicals 2015			Not Listed
New Zealand Inventory of Chemicals (NZIoC)			Listed
Philippines Inventory of Chemicals and Chemical Substances (PICCS)			Listed
Vietnam National Chemical Inventory			Listed
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)			Listed
Korea Existing Chemical List (KECL)			Listed
Chemical name	Common names and synonyms	CAS number	EC number
Water	Water	7732-18-5	231-791-2
European Inventory of Existing Commercial Chemical Substances (EINECS)			Listed
EC Inventory			Listed
United States Toxic Substances Control Act (TSCA) Inventory			Listed
China Catalog of Hazardous chemicals 2015			Not Listed
New Zealand Inventory of Chemicals (NZIoC)			Listed
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Korea Existing Chemical List (KECL)			Listed

SAFETY DATA SHEET

[Required under safety and health regulations for shipping and handling]

SECTION 16. ----- OTHER INFORMATION -----

Abbreviations and acronyms

CAS: Chemical Abstracts Service

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulation concerning the International Carriage of Dangerous Goods by Rail

IMDG: International Maritime Dangerous Goods

IATA: International Air Transportation Association

TWA: Time Weighted Average

STEL: Short term exposure limit

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

EC50: Effective Concentration 50%

References

IPCS - The International Chemical Safety Cards (ICSC), website: <http://www.ilo.org/dyn/icsc/showcard.home>

HSDB - Hazardous Substances Data Bank, website: <https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm>

IARC - International Agency for Research on Cancer, website: <http://www.iarc.fr/>

eChemPortal - The Global Portal to Information on Chemical Substances by OECD, website: http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en

CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>

ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>

ERG - Emergency Response Guidebook by U.S. Department of Transportation, website: <http://www.phmsa.dot.gov/hazmat/library/erg>

Germany GESTIS-database on hazard substance, website: <http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp>

ECHA - European Chemicals Agency, website: <https://echa.europa.eu/>

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. 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. We as supplier shall not be held liable for any damage resulting from handling or from contact with the above product

End of SDS