

Kanamycin Sulfate

Section 1. Product and supplier information

1.1. Identification

Product name: Kanamycin Sulfate

Product catalog number: P8010-5, P8010-25, P8010-100

CAS#: 25389-94-0

1.2. Recommended use and restrictions on use

Research use only. Not for clinical or human use.

1.3. Supplier

Ubiquitin-Proteasome Biotechnologies (UBPBio), LLC

12635 E. Montview Blvd, STE100

Aurora, CO 80045

USA

Tel: 1-800-218-0982

Fax: 1-800-682-6801

Email: info@ubpbio.com

Web: www.ubpbio.com

1.4. Emergency telephone number

Emergency number: 1-800-218-0982

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS classification

Acute toxicity (Oral): Category 4

Acute toxicity (Inhalation): Category 4

Acute toxicity (Dermal): Category 4

Reproductive toxicity: Category 1

2.2. GHS Label elements, including precautionary statements

Hazard Pictograms:



Signal word: Danger

Hazard Statements:

H360 May damage fertility or the unborn child.

Precautionary Statements:

Prevention:

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- P201: Obtain special instructions before use.
 P202: Do not handle until all safety precautions have been read and understood.
 P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
 P270 Do not eat, drink or smoke when using this product.
 P280 Wear protective gloves.
 P285 In case of inadequate ventilation wear respiratory protection.

Responses:

- P302 + P352 If contacting with skin, wash with plenty of soap and water.
 P304 + P341 If inhaled and breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P333 + P313 If skin irritation or rash occurs, get medical advice/ attention.
 P342 + P311 If experiencing respiratory symptoms, call a doctor.
 P363 Wash contaminated clothing before reuse.

Disposal:

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

SECTION 3: Composition/Information on ingredients**3.1. Substances**

Product Name: Kanamycin sulfate
 Formula: $C_{18}H_{36}N_4O_{11} \cdot H_2SO_4$
 Molecular weight: 582.6 g/mol
 CAS Number: 25389-94-0

SECTION 4: First-aid measures**4.1. Description of first aid measures**

First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.

First-aid measures after skin contact: Wash skin with plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur.

First-aid measures after eye contact: Hold eyelids apart and flush eyes with plenty of water. Have eyes examined and tested by medical professional.

First-aid measures after ingestion: Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get immediate medical attention.

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

The known symptoms and effects are listed in Section 2.2 (above) and Section 11 (below).

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SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Specific hazards arising from the chemical

Fire hazard: No data available.

Reactivity: The product is non-reactive under normal conditions of use, storage and transport.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Avoid breathing dust, and provide adequate ventilation.

As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).

6.1.2. For emergency responders

Protective equipment: Do not attempt to take action without suitable protective equipment.

6.2. Environmental precautions

Avoid release to drains.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Take up liquid spill into absorbent material. Pick up powder without creating dust. Notify authorities if product enters sewers or public waters. Dispose of materials or solid residues at an authorized site.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: Ensure good ventilation. Wear personal protective equipment.

Avoid breathing dust.

Hygiene measures: Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Keep container tightly closed. Store in a well-ventilated place. Keep at room temperature for long-term storage.

7.3. Specific end uses

Use in a laboratory fume hood where possible.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Contains no substances with occupational exposure limit values.

8.2. Appropriate engineering controls

Appropriate engineering controls: Ensure good ventilation.

Environmental exposure controls: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection: Protective gloves

Eye protection: Safety glasses

Skin and body protection: Wear suitable protective clothing

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Solid

Color: White powder

Odor: No data available

Odor threshold: No data available

pH: No data available

Melting point: No data available

Freezing point: No data available

Boiling point: No data available

Flash point: No data available

Relative evaporation rate (butyl acetate=1): No data available

Flammability (solid, gas): No data available

Vapor pressure: No data available

Relative vapor density at 20 °C: No data available

Relative density: No data available

Solubility: up to 50 mg/ml in water

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Viscosity, kinematic: No data available

Viscosity, dynamic: No data available

Explosion limits: No data available

Explosive properties: No data available

Oxidizing properties: No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

Kanamycin Sulfate**10.2. Chemical stability**

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Heat and moisture.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

Under fire conditions, may decompose and emit toxic fumes.

Other decomposition products – Nitrogen oxides, Sulfur oxides, Sodium oxides

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute Toxicity**

Harmful if swallowed, inhaled or contacting skin.

Skin corrosion/irritation

Classification criteria are not met based on available data

Serious eye damage/irritation

Classification criteria are not met based on available data

Respiratory or skin sensitization

Classification criteria are not met based on available data

Germ cell mutagenicity

Classification criteria are not met based on available data

Carcinogenicity

IARC: No component of this product present at a level equal to or greater than 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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

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

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

Reproductive toxicity**No data available****Specific target organ toxicity - single exposure**

Classification criteria are not met based on available data

Specific target organ toxicity - repeated exposure

Classification criteria are not met based on available data

Aspiration hazard

Classification criteria are not met based on available data

Symptoms / Routes of exposure

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Ingestion: There may be irritation of the throat.

Skin: There may be mild irritation at the site of contact.

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Eyes: There may be irritation and redness.

Additional Information

Exposure may cause irritation of eyes, mucous membranes, upper respiratory tract and skin. To the best of our knowledge, the chemical, physical and toxicological properties have not been fully investigated.

SECTION 12: Ecological information**12.1. Toxicity**

Ecology - general: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

12.2. Persistence and degradability

No data available on mobility of the substance.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment unavailable as chemical safety assessment not required or not conducted.

12.6 Other adverse effects

No data available.

SECTION 13: Disposal considerations**13.1. Disposal methods**

Waste treatment methods: Dispose substance in accordance with prevailing country, federal, state and local regulations.

SECTION 14: Transport information

Department of Transportation (DOT): Not regulated

TDG Transport by sea: Not regulated

Air transport: Not regulated

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:



MATERIAL SAFETY DATA SHEET

Revision: 6/26/2019

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No SARA Hazards.

Massachusetts Right to Know components:

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

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

Pennsylvania Right to Know components:

No components are subject to the New Jersey Right to Know Act.

New Jersey Right to Know components:

No components are subject to the New Jersey Right to Know Act.

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

H317 May cause an allergic skin reaction.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Resp. Sens. Respiratory sensitization

Skin Sens. Skin sensitization

HMIS Rating

Health hazard: 1

Chronic Health Hazard: *

Flammability: 0

Physical Hazard 0

NFPA Rating

Health hazard: 1

Fire Hazard: 0

Reactivity Hazard: 0

DISCLAIMER:

This above information is believed to be correct and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty with respect to such information, and we assume no liability resulting from its use. Users should make independent decisions regarding the suitability of the information for their particular purposes.