

# SAFETY DATA SHEET

## KANAMYCIN SULFATE

### SECTION 1: CHEMICAL AND COMPANY IDENTIFICATION

**BioShop Canada Inc.**  
**5480 Mainway**  
**Burlington, Ontario L7L 6A4**  
**1-800-234-1179**  
**Emergency Telephone No.: 1-905-466-3832**  
**Chemical Name:** Kanamycin sulfate  
**Catalog Number:** KAN201  
**Recommended use:** for research purposes only

### SECTION 2 HAZARDS IDENTIFICATION

**GHS Classification:**  
Reproductive toxicity (category 1B)

Pictogram



Signal word: Danger

Hazard statements:  
H360 May damage fertility or the unborn child.

Precautionary statement(s)

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
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

#### Potential health effects:

Inhalation: May be harmful if inhaled  
Skin: May be harmful if absorbed through skin  
Eyes: May cause eye irritation  
Ingestion: May be harmful if swallowed

### SECTION 3 COMPOSITION/ INGREDIENTS

	CAS #	%
Kanamycin sulfate	25389-94-0	100

**Molecular Formula:** C<sub>18</sub>H<sub>36</sub>N<sub>4</sub>O<sub>11</sub>.H<sub>2</sub>SO<sub>4</sub>  
**Molecular Weight:** 582.58

### SECTION 4 FIRST AID MEASURES

**Eyes:** Flush eyes with plenty of water for at least 15 minutes. If irritation persists get medical attention.  
**Skin:** Flush area immediately with plenty of soap and water.  
**Inhalation:** Remove victim to fresh air. If not breathing give artificial respiration. Get medical attention if symptoms persist.  
**Ingestion:** Wash mouth with water.

### SECTION 5 FIRE FIGHTING MEASURES

**General Information:** Always wear full protective gear in the event of a fire. Toxic gases and vapors may be generated by decomposition or combustion. Excessive dust in combination with air can create an explosive mixture.  
**Flammable:** No  
**Flash Point:** N/A  
**Autoignition Temperature:** N/A  
**Extinguishing Media:** Use water spray, foam, dry chemical or carbon dioxide.  
**Explosion Data:** Not available

### SECTION 6 ACCIDENTAL RELEASE MEASURES

Ventilate the area. Wear appropriate protective equipment. Sweep and place in a closed container. In the event of a fire always wear self-contained breathing apparatus, NIOSH/MSHA approved or equivalent.  
**Leak and Spill Procedures:** Ventilate the area. Wear appropriate protective equipment. Cover with dry lime or soda. Sweep and place in a closed container. Avoid generating dust.

### SECTION 7 HANDLING AND STORAGE

**Handling:** Avoid contact. Do not get in eyes, on skin, or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse. Minimize dust generation.  
**Storage Conditions:** 4.

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure limits: none listed**  
Use adequate ventilation. Avoid dust generation.  
Wear appropriate protective equipment to prevent eye and skin exposure. Wear appropriate respirator to prevent lung irritation.  
**Personal Protection:** Lab coat, safety goggles, rubber gloves.  
**Ventilation:** Use appropriate exhaust ventilation.  
**Respiratory protection:** use OSHA/MSHA approved dust masks.

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** powder  
**Appearance and Odor:** white, odorless

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**Freezin/Melting Point:** n/a

**Boiling Point:** n/a

**Specific Gravity:** n/a

**Vapor Density:**

**Solubility:** Soluble in water

**pH:** 6.5-8.5 (1% soln)

<b>SECTION 16</b>	<b>ADDITIONAL INFORMATION</b>
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Date Prepared: Jan 1/2025

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<b>SECTION 10</b>	<b>STABILITY AND REACTIVITY:</b>
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**Stability:** Stable under normal temperatures and pressure

**Conditions to avoid:** dust generation. Excess heat

**Incompatibility:** Strong oxidizing agents

**Hazardous Decomposition Products:** Nitrogen oxides, carbon monoxide, carbon dioxide,

**Hazardous Polymerization:** Will not occur

The information provided on this Material Safety Data Sheet is furnished in good faith and without warranty of any kind. The above information is believed to be correct and should be used only as a guide. BioShop Canada Inc. shall not be held liable for any damage resulting from the handling or from the contact with the above product.

Observe all federal, provincial and state laws concerning health, safety and pollution.

<b>SECTION 11</b>	<b>TOXICOLOGICAL PROPERTIES</b>
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**Exposure Limits:**

LD50 / LC50:

Oral rat: LD50=4000 mg/kg

Oral, mouse: LD50= 17500 mg/kg

**Epidemiology:** No data available

**Teratogenicity:** No data available

**Reproductive Effects:** developmental abnormalities in Rat, and Guinea pig have been documented.

**Neurotoxicity:** may cause auditory nerve damage

**Mutagenicity:** No data available

**Carcinogenicity:** Not listed by ACGIH, IARC, NTP, or OSHA

<b>SECTION 12</b>	<b>ECOLOGICAL INFORMATION</b>
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**Toxicity:**

No information found.

<b>SECTION 13</b>	<b>DISPOSAL CONSIDERATION</b>
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**Waste Disposal:** Burn in chemical incinerator. Observe all Federal, provincial and local regulations.

<b>SECTION 14</b>	<b>TRANSPORT INFORMATION</b>
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**Shipping Information:**

DOT (US): not regulated

IMDG: not regulated

IATA: not regulated

<b>SECTION 15</b>	<b>REGULATORY INFORMATION</b>
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**US :** TSCA: listed

**Canada:** WHMIS: D2A, D2B