Section 1 - Product and Company Information

Product Name: KANAMYCIN SULFATE MIXTURE OF COMPONENTS A, B AND C
Product Number: 0615
Brand: Fluka Chemical
Company: Sigma-Aldrich
Street Address: 3000 Spruce Street
City, State, Zip, Country: SAINT LOUIS, MO 63103 JS
Technical Phone: 314 771 6765
Fax: 800 255 5092
Emergency Phone: 414 273 3850 Ext. 5098

Section 2 - Composition/Information on Ingredient

<table>
<thead>
<tr>
<th>Substance Name</th>
<th>CAS #</th>
<th>SARA 313</th>
<th>EC no</th>
<th>Annex I Index Number</th>
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<td>KANAMYCIN SULFATE MIXTURE OF COMPONENTS A, B AND C</td>
<td>70550-61-9</td>
<td>No</td>
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Formula
Synonyms

Section 3 - Hazards Identification

Emergency Overview: Caution: Avoid contact and inhalation. Target organs(s): Kidneys. Ears.

HMIS Rating
- Health: 0
- Flammability: 0
- Reactivity: 0

NFPA Rating
- Health: 0
- Flammability: 0
- Reactivity: 0

For additional information on toxicity, please refer to Section 11.

Section 4 - First Aid Measures

Oral Exposure: If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Inhalation Exposure: If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

Dermal Exposure: In case of contact, immediately wash skin with soap and copious amounts of water.

Eye Exposure: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Section 5 - Fire Fighting Measures

Autoignition Temp: N/A

Extinguishing Media Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

Firefighting: Wearing self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific Hazard(s): Emit toxic fumes under fire conditions.

Section 6 - Accidental Release Measures

Methods for Cleaning Up: Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage

Handling: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

Storage: Suitable: Keep tightly closed. Store at 2-8°C.

Section 8 - Exposure Controls / PPE

Engineering Controls: Safety shower and eye bath. Mechanical exhaust required.

Personal Protective Equipment: Respiratory: Wear dust mask.
- Hand: Protective gloves.
- Eye: Chemical safety goggles.

General Hygiene Measures: Wash thoroughly after handling.

Section 9 - Physical/Chemical Properties

Appearance
- Physical State: Solid
- Color: White
- Form: Powder

Fluka Chemical - 0615
Page 2
Sigma-Aldrich Corporation
www.sigma-aldrich.com
Molecular Weight: N/A
pH: N/A
BP/BP Range: N/A
MP/MP Range: N/A
Freezing Point: N/A
Vapor Pressure: N/A
Vapor Density: N/A
Saturated Vapor Conc. SD/Density: N/A
Bulk Density: N/A
Odor Threshold: N/A
Volatile's: N/A
VOC Content: N/A
Water Content: N/A
Solvent Content: N/A
Evaporation Rate: N/A
Viscosity: N/A
Partition Coefficient: N/A
Decomposition Temp.: N/A
Flash Point °F: N/A
Flash Point °C: N/A
Explosion Limits: N/A
Flammability: N/A
Autoignition Temp: N/A
Solvency: N/A
N/A = not available

Section 10 - Stability and Reactivity

Stability
Stable.
Materials to Avoid
Strong oxidizing agents.

Hazardous Decomposition Products
Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Nitrogen oxides.

Hazardous Polymerization
Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

Route of Exposure
Skin Contact
May cause skin irritation.
Skin Absorption
May be harmful if absorbed through the skin.
Eye Contact
May cause eye irritation.
Inhalation
May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

Ingestion
May be harmful if swallowed.

Target Organ(s) or System(s)
Kidneys. Ears.

Signs and Symptoms of Exposure
Anthracyclines are associated with significant nephrotoxicity and ototoxicity.

Section 12 - Ecological Information

No data available.

Section 13 - Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation
Contact a licensed professional waste disposal service to dispose of this material.

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Observe all federal, state, and local environmental regulations.

Section 14 - Transport Information

DOT
Proper Shipping Name: None
Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA
Non-Hazardous for Air Transport: Non-hazardous for air transport.

Section 15 - Regulatory Information

EU Additional Classification
Safety Statements: S: 22 24/25
Do not breathe dust. Avoid contact with skin and eyes.

US Classification and Label Text
US Statements
Caution: Avoid contact and inhalation. Target organ(s): Kidneys. Ears.

United States Regulatory Information
SARA Listed: No

United States - State Regulatory Information
California Prop 65: This product is or contains chemical(s) known to the state of California to cause developmental toxicity.
California Proposition 65: This product is or contains chemical(s) known to the state of California to cause developmental toxicity.

Canada Regulatory Information
WHMIS Classification
This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.
DSL: No
NDSL: No

Section 16 - Other Information

Disclaimer
For R&D use only. Not for drug, household or other uses.