Material Safety Data Sheet
Amikacin MSDS

Section 1: Chemical Product and Company Identification

Product Name: Amikacin
Catalog Codes: SLA1390
CAS#: 37517-28-5
RTECS: WK1955000
TSCA: TSCA 8(b) inventory: No products were found.
CI#: Not available.
Synonym: Amicacin; 1-N-(L(-)-gamma-Amino-alpha-hydroxybutyryl)kanamycin A; 1-N-(L-(-)-4-Amino-2-hydroxybutyryl)kanamycin A
Chemical Name: D-Streptamin, O-3-amino-3-deoxy-alpha-D-glucopyranosyl-(1-6)-O-(6-amino-6-deoxy-alpha-D-Dluco pyranosyl-(1,4))-N(sup1)-(4-amino-2-hydroxy-1-oxobutyl)-2-deoxy-, (S)-
Chemical Formula: C22-H43-O13

Contact Information:
Sciencelab.com, Inc.
14025 Smith Rd.
Houston, Texas 77396
US Sales: 1-800-901-7247
International Sales: 1-281-441-4400
Order Online: ScienceLab.com
CHEMTREC (24HR Emergency Telephone), call:
1-800-424-9300
International CHEMTREC, call: 1-703-527-3887
For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS #</th>
<th>% by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amikacin</td>
<td>37517-28-5</td>
<td>100</td>
</tr>
</tbody>
</table>

Toxicological Data on Ingredients: Amikacin: ORAL (LD50): Acute: &gt;6000 mg/kg [Mouse].

Section 3: Hazards Identification

Potential Acute Health Effects: Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

Potential Chronic Health Effects:
CARCINOGENIC EFFECTS: Not available.
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.
DEVELOPMENTAL TOXICITY: Not available.
The substance may be toxic to kidneys, ears.
Repeated or prolonged exposure to the substance can produce target organs damage.
## Section 4: First Aid Measures

**Eye Contact:**
Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

**Skin Contact:** Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

**Serious Skin Contact:** Not available.

**Inhalation:**
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Serious Inhalation:** Not available.

**Ingestion:**
Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

**Serious Ingestion:** Not available.

## Section 5: Fire and Explosion Data

**Flammability of the Product:** May be combustible at high temperature.

**Auto-Ignition Temperature:** Not available.

**Flash Points:** Not available.

**Flammable Limits:** Not available.

**Products of Combustion:** These products are carbon oxides (CO, CO2).

**Fire Hazards in Presence of Various Substances:**
Slightly flammable to flammable in presence of heat.
Non-flammable in presence of shocks.

**Explosion Hazards in Presence of Various Substances:**
Slightly explosive in presence of open flames and sparks.
Non-explosive in presence of shocks.

**Fire Fighting Media and Instructions:**
SMALL FIRE: Use DRY chemical powder.
LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

**Special Remarks on Fire Hazards:** As with most organic solids, fire is possible at elevated temperatures

**Special Remarks on Explosion Hazards:**
Fine dust dispersed in air in sufficient concentrations, and in the presences of an ignition source is a potential dust explosion hazard.

## Section 6: Accidental Release Measures

**Small Spill:**
Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Section 7: Handling and Storage

Precautions:
Keep away from heat. Keep away from sources of ignition. Do not ingest. Do not breathe dust. If ingested, seek medical advice immediately and show the container or the label.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:
Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection: Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:
Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not available.

Section 9: Physical and Chemical Properties

Physical state and appearance: Solid. (Powdered solid.)

Odor: Not available.

Taste: Not available.

Molecular Weight: 585.6 g/mole

Color: White.

pH (1% soln/water): Not available.

Boiling Point: Not available.

Melting Point: 214°C (417.2°F)

Critical Temperature: Not available.

Specific Gravity: Not available.

Vapor Pressure: Not applicable.

Vapor Density: Not available.

Volatile: Not available.

Odor Threshold: Not available.
**Section 10: Stability and Reactivity Data**

- **Stability**: The product is stable.
- **Instability Temperature**: Not available.
- **Conditions of Instability**: Excess heat, dust generation, incompatible materials
- **Incompatibility with various substances**: Reactive with oxidizing agents.
- **Corrosivity**: Not available.
- **Special Remarks on Reactivity**: Not available.
- **Special Remarks on Corrosivity**: Not available.
- **Polymerization**: Will not occur.

**Section 11: Toxicological Information**

- **Routes of Entry**: Inhalation. Ingestion.
- **Toxicity to Animals**: Acute oral toxicity (LD50): >6000 mg/kg [Mouse].
- **Chronic Effects on Humans**: May cause damage to the following organs: kidneys, ears.
- **Other Toxic Effects on Humans**: Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.
- **Special Remarks on Toxicity to Animals**: Not available.
- **Special Remarks on Chronic Effects on Humans**: May cause adverse reproductive effects and birth defects (teratogenic)
- **Special Remarks on other Toxic Effects on Humans**: 
- Acute Potential Health Effects:
  - Skin: May cause skin irritation.
  - Eyes: May cause eye irritation.
- Inhalation: May cause respiratory tract irritation.
- Ingestion: May cause irritation of the digestive tract. May affect the nervous system (flaccid paralysis without anesthesia).
- Chronic Potential Health Effects:
  - Ingestion: Prolonged or repeated ingestion may cause kidney damage, and may affect the blood, and metabolism (weight loss), hearing (nerve deafness, change in cochlear structure or function). Aminoglycosides are associated with significant nephrotoxicity and/or ototoxicity.

**Section 12: Ecological Information**

- **Ecotoxicity**: Not available.
- **BOD5 and COD**: Not available.
Products of Biodegradation:
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

DOT Classification: Not a DOT controlled material (United States).

Identification: Not applicable.

Special Provisions for Transport: Not applicable.

Section 15: Other Regulatory Information

Federal and State Regulations: No products were found.

Other Regulations:
EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:
WHMIS (Canada): Not controlled under WHMIS (Canada).

DSCL (EEC):
This product is not classified according to the EU regulations.
S24/25- Avoid contact with skin and eyes.
S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.

HMIS (U.S.A.):
Health Hazard: 1
Fire Hazard: 1
Reactivity: 0
Personal Protection: E

National Fire Protection Association (U.S.A.):
Health: 1
Flammability: 1
Reactivity: 0
Specific hazard:

Protective Equipment:
Gloves.
Lab coat.
Dust respirator. Be sure to use an approved/certified respirator or equivalent.
Safety glasses.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

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