MATERIAL SAFETY DATA SHEET
BACITRACIN

1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name: Bacitracin
Synonyms: Ayfivin, Baciguent, Baci-Jel, Baciliquin, Bacitek ointment, Fortracin, Parentracin, Penitracin, Topitracin, Topitrasin, USAF CB-7, Zutracin
Company Identification: Sisco Research Laboratories Pvt. Ltd.
Andheri (East), Mumbai – 400 099.
Tel: +91 22 2687 2601
Fax: +91 22 2687 8241
Website: www.srlchem.com

2 - COMPOSITION, INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name</th>
<th>%</th>
<th>EINECS#</th>
</tr>
</thead>
<tbody>
<tr>
<td>1405-87-4</td>
<td>Bacitracin</td>
<td>-</td>
<td>215-786-2</td>
</tr>
</tbody>
</table>

3 - HAZARDS IDENTIFICATION

Special Indication Of Hazards To Humans And The Environment
Not hazardous according to Directive 67/548/EEC.

4 - FIRST AID MEASURES

Eyes: 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.
Skin: In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.
Ingestion: If swallowed, wash out mouth with water provided person is conscious. Call a physician.
Inhalation: If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

Notes to Physician:

5 - FIRE FIGHTING MEASURES

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

Special Risks
Specific Hazard(s): Emits toxic fumes under fire conditions.

Special Protective Equipment For Firefighters: Wear self-contained breathing apparatus and protective Clothing to prevent contact with skin and eyes.
### 6 - ACCIDENTAL RELEASE MEASURES

**Procedure(S) Of Personal Precaution(S):**
Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

**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.

### 7 – HANDLING AND STORAGE

**Handling:**
Directions for Safe Handling: Avoid breathing dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

**Storage:**
Conditions of Storage: Keep tightly closed. Store at 2-8°C.

### 8 – EXPOSURE CONTROLS, PERSONAL PROTECTION

**Engineering Controls:**
Mechanical exhaust required.

**General Hygiene Measures:**
Wash thoroughly after handling. Wash contaminated clothing before reuse.

**Personal Protective Equipment:**

- **Respiratory Protection:** Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator.
- **Special Protective Measures:** Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protect...

### 9 - PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Solid-Liquid

**Molecular Formula:** $C_{66}H_{103}N_{17}O_{16}S$

**Molecular Weight:** 1422.72

### 10 - STABILITY AND REACTIVITY

**Chemical Stability:** Stable.

**Conditions to Avoid:** Moisture. Strong oxidizing agents

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

**Hazardous Polymerization:** Will not occur

### 11 - TOXICOLOGICAL INFORMATION

**RTECS NUMBER:** CP0175000

**Acute Toxicity:**
LD50 Intraperitoneal Rat 190 mg/kg
Remarks: Lungs, Thorax, or Respiration: Other changes.
LD50 Oral Mouse > 3750 mg/kg
LD50 Intraperitoneal Mouse 300 mg/kg
LD50 Subcutaneous Mouse 1300 mg/kg
LD50 Intravenous Mouse 360 mg/kg
Behavioral: Convulsions or effect on seizure threshold. Lungs, Thorax, or Respiration: Other changes.
LD50 Oral Guinea pig 2000 mg/kg
LD50 Oral Quail > 316 mg/kg
Sensitization: Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

Signs And Symptoms Of Exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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 Information: Kidneys.

12 - ECOLOGICAL INFORMATION

No data available.

13 - DISPOSAL CONSIDERATIONS

Substance Disposal: 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.

14 - TRANSPORT INFORMATION

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<thead>
<tr>
<th>IATA</th>
<th>IMO</th>
<th>RID/ADR</th>
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<tbody>
<tr>
<td>Non-hazardous</td>
<td>Non-hazardous</td>
<td>Non-hazardous</td>
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15 - REGULATORY INFORMATION

Classification And Labeling According To Eu Directives
S-PHRASES: 22-24/25 Do not breathe dust. Avoid contact with skin and eyes. Not hazardous according to Directive 67/548/EEC.

16 - ADDITIONAL INFORMATION

SISCO RESEARCH LABORATORIES provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.