Section 1 - Product and Company Information

Product Name: Bacitracin
Product Number: B0125
Brand: Sigma Chemical
Company: Sigma-Aldrich
Street Address: 3060 Spruce Street
City, State, Zip, Country: SAINT LOUIS, MO 63103 US
Technical Phone: 314-771-5796
Fax: 800-325-5032
Emergency Phone: 414-273-3860 Ext. 5996

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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<tr>
<td>BACITRACIN</td>
<td>145-87-4</td>
<td>No</td>
<td>215-766-2</td>
<td></td>
</tr>
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</table>

Formula: C6H12O2N17O16S
Synonyms: Aytrin, Baciquent, Baci-Jel, Bacioline, Bacitracin, Bacitracin ointment, Fortractin, Parentracin, Penitracin, Topitracin, Topitracin, USAX CX-7, Zutracin

Section 3 - Hazards Identification

Emergency Overview
Caution: Avoid contact and inhalation. Possible sensitizer. Target organ(s): Kidneys.

HMIS Rating
Health: 2
Flammability: 0
Reactivity: 1

NFPA Rating
Health: 2
Flammability: 0
Reactivity: 1

*additional chronic hazards present.
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 skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. 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
Protective Equipment
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Specific Hazard(s): Emits toxic fumes under fire conditions.

Section 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.

Section 7 - Handling and Storage

Handling
User Exposure
Avoid breathing dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

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

Special Requirements
Hygroscopic.

Section 8 - Exposure Controls / PPE

Engineering Controls
Mechanical exhaust required.

Personal Protective Equipment
Other
Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective clothing.

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

Section 9 - Physical/Chemical Properties

Appearance
Physical State: Solid
Color: Faintly beige
Form: Powder

Sigma Chemical - B0125
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Sigma-Aldrich Corporation www.sigma-aldrich.com

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.
Molecular Weight: 1,422.71 AMU

pH: N/A
BP/IBP Range: N/A
MP/MP Range: 221 - 225 °C
Freezing Point: N/A
Vapor Pressure: N/A
Vapor Density: N/A
Saturated Vapor Conc.: N/A
SG/Density: N/A
Bulk Density: N/A
Odor Threshold: N/A
Volatile: 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
Solubility
Solubility in Water: Soluble.
Solvent: 20 mg/ml HCl 0.01 M, clear, faintly yellow-green
Solvent: Soluble.
Solvent: Insoluble.

N/A = not available

Section 10 - Stability and Reactivity

Stability
Stable
Conditions to Avoid
Protect from moisture.
Materials to Avoid
Strong oxidizing agents.

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

Section 11 - Toxicological Information

Routes 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.

Sensitization
Sensitization
Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

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

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

RTECS Number: CP0175000

Toxicity Data

Intravenous - Mouse: 360 mg/kg (LD50)
Intraperitoneal - Rat: 190 mg/kg (LD50)

Oral - Mouse: > 3750 mg/kg (LD50)
Intraperitoneal - Mouse: 300 mg/kg (LD50)
Subcutaneous - Mouse: 1300 mg/kg (LD50)

Intravenous - Mouse: 360 mg/kg (LD50)
Subcutaneous - Mouse: 1300 mg/kg (LD50)

Oral - Guinea pig: 900 mg/kg (LD50)
Oral - Rat: > 316 mg/kg (LD50)

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.

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. Possible sensitizer. Target organ(s): Kidneys.

United States Regulatory Information
SARA Listed: No
TSCA Inventory Item: Yes

Section 16 - Other Information

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

Warranty
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of this product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2005 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.