



**SIGMA-ALDRICH**

## Material Safety Data Sheet

Date Printed: 06/14/2005  
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Version 1.40

### Section 1 - Product and Company Information

**Product Name** Bacitracin  
**Product Number** B0125  
**Brand** Sigma Chemical

**Company** Sigma-Aldrich  
**Street Address** 3050 Spruce Street  
**City, State, Zip, Country** SAINT LOUIS, MO 63103 US  
**Technical Phone:** 314 771 5765  
**Fax:** 800 325 5052

**Emergency Phone:** 414 273 3850 Ext. 5996

### Section 2 - Composition/Information on Ingredient

<u>Substance Name</u>	<u>CAS #</u>	<u>SARA 313</u>	<u>EC no</u>	<u>Annex I Index Number</u>
BACITRACIN	1405-87-4	No	215-786-2	

**Formula** C66H103N17O16S  
**Synonyms** Ayflvin, Baciguent, Bacil-Jel, Baciliquin, Bacitek ointment, Fortracin, Parentracin, Penitracin, Topitracin, Topitrasin, USAF CB-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.

#### 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

##### 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

<u>Physical State</u>	<u>Color</u>	<u>Form</u>
Solid	Faintly beige	Powder

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8-30-05

Molecular Weight: 1,422.71 AMU

pH N/A  
BP/BP 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

Stable.

### Conditions to Avoid

Protect from moisture.

### Materials to Avoid

Strong oxidizing agents.

### Hazardous Decomposition Products

#### Hazardous Decomposition Products

Carbon monoxide, Carbon dioxide, Nitrogen oxides, Sulfur 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.

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### 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)

Remarks: Lungs, Thorax, or Respiration:Other changes.

Oral - Mouse: > 3750 mg/kg (LD50)

Intraperitoneal - Mouse: 300 MG/KG (LD50)

Subcutaneous - Mouse: 1300 MG/KG (LD50)

Remarks: Behavioral:Somnolence (general depressed activity).

Intravenous - Mouse: 360 MG/KG (LD50)

Remarks: Behavioral:Somnolence (general depressed activity).

Behavioral:Convulsions or effect on seizure threshold.

Lungs, Thorax, or Respiration:Other changes.

Oral - Guinea pig: 2000 mg/kg (LD50)

Oral - Quail: > 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.

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.

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**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

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**Section 16 - Other Information**

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**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 the product. Sigma-Aldrich Inc., 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.