



Material Safety Data Sheet

Date Prepared: 10/15/03
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BACITRACIN

IDENTIFICATION

Common Name: Bacitracin

Chemical Name: Bacitracin

Synonym: n/f

Formula: C₆₆H₁₀₃N₁₇O₁₆S (Bacitracin A)

CAS Number: 1405-87-4

RTECS Number: CP0175000

Chemical Family: Polypeptide complex

Therapeutic Category: Antibacterial

INGREDIENT INFORMATION

Principle Components

Bacitracin

Percent

Pure Material

Exposure Limits

n/f

HEALTH HAZARD INFORMATION

Usual Adult Dose: Bacitracin is mainly applied externally to the skin or eyes.

Adverse Effects: Adverse effects may include nausea, vomiting, or other gastrointestinal upset. Systemic administration may cause kidney toxicity. Possible allergic reaction to material if inhaled, ingested or in contact with skin.

Overdose Effects: n/f

Acute: Possible eye, skin, gastrointestinal and/or respiratory tract irritation.

Chronic: Possible hypersensitization.

Inhalation: May cause irritation. Remove to fresh air.

Eye: May cause irritation. Flush with copious quantities of water.

Skin: May cause irritation, but is not absorbed through intact skin. Flush with copious quantities of water.

Ingestion: May cause irritation. Flush out mouth with water. This material is not appreciably absorbed from the gastrointestinal tract.

n/f = not found

BACITRACIN

HEALTH HAZARD INFORMATION CONTINUED

Medical Conditions Aggravated by Exposure: Hypersensitivity to material and impaired kidney function.

Cross Sensitivity: n/f

Pregnancy Comments: Adequate and well-controlled pregnancy studies with bacitracin have not been conducted in either humans or animals.

Pregnancy Category: C

FIRST AID MEASURES

General: Remove from exposure. Remove contaminated clothing. Persons developing serious hypersensitivity (anaphylactic) reactions must receive immediate medical attention. If person is not breathing give artificial respiration. If breathing is difficult give oxygen. Obtain medical attention.

Overdose Treatment: n/f

TOXICOLOGICAL INFORMATION

Oral Rat: LD50: n/f

Oral Mouse: LD50: >3750 mg/kg

Irritancy Data: n/f

Target Organ(s): Kidneys

Listed as a Carcinogen? NTP: No
Other: No

IARC: No

OSHA: No

FIREFIGHTING MEASURES

Flash Point: n/f

Upper Flammable Limit: n/f

Auto-Ignition Temperature: n/f

Lower Flammable Limit: n/f

Extinguisher Media: Water spray, dry chemical, carbon dioxide or foam as appropriate for surrounding fire and materials.

Fire and Explosion Hazards: This material is assumed to be combustible. As with all dry powders it is advisable to ground mechanical equipment in contact with dry material to dissipate the potential buildup of static electricity.

Firefighting Procedures: As with all fires, evacuate personnel to a safe area. Firefighters should use self-contained breathing equipment and protective clothing.

n/f = not found

BACITRACIN

PHYSICAL HAZARDS

Conditions to Avoid: Avoid exposure to light, heat, and moisture.

Incompatibilities: Strong oxidizing agents, alkaline solutions and heavy metal salts.

Decomposition Products: When heated to decomposition material emits acrid smoke and irritating fumes. Emits toxic fumes under fire conditions.

Stable? Yes

Hazardous Polymerization? No

HANDLING / SPILL / DISPOSAL MEASURES

Handling: As a general rule, when handling USP Reference Standards avoid all contact and inhalation of dust, mists, and/or vapors associated with the material. Wash thoroughly after handling.

Storage: Store in tight, light-resistant container as defined in the USP-NF. This material should be handled and stored per label instructions to ensure product integrity. Store in a cold place

Spill Response: Wear approved respiratory protection, chemically compatible gloves and protective clothing. Wipe up spillage or collect spillage using a high efficiency vacuum cleaner. Avoid breathing dust. Place spillage in appropriately labeled container for disposal. Wash spill site.

Disposal: Dispose of waste in accordance with all applicable Federal, State and local laws.

EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection: When working with small quantities in a well-ventilated area, respiratory protection may not be required. The use of an approved dust mask is recommended.

Ventilation: No special ventilation requirements. **Protective Clothing:** Protect exposed skin.

Gloves: Rubber

Eye Protection: Safety Glasses

PHYSICAL AND CHEMICAL PROPERTIES

NOTE: The data reported below is general information, and is not specific to the USP Reference Standard Lot provided!

Appearance and Odor: White to pale buff powder; odorless or slight odor.

Melting Point: 221 - 225° C

Solubility in Water: Freely soluble

Solubility in Water: Insoluble

Boiling Point: n/f

Specific Gravity: n/f

Vapor Pressure: n/f

Vapor Density: n/f

Evaporation Rate: n/f

Evaporation Rate: n/f

Reactivity in Water: n/f

% Volatile by Volume: n/f

n/f = not found