

Material Safety Data Sheet

R-PEN

Date of New Version: 10/02
Replaces Version: 09/94
Manufacture's Name: Alpharma, Inc.
Manufacture's Address: 1301 Iowa Avenue, Longmont, CO 80501 USA
Emergency Telephone: 800-678-7112 **CHEMTREC 24 hour: 1-800-424-9300**

SECTION 1 - HAZARDOUS INGREDIENTS/IDENTITY

Product Name: R-PEN

Hazardous Components:

Chemical identity/common name and Exposure Limits: Penicillin G Potassium
Exposure limits not established.

Common Name: Penicillin G Potassium

CAS Number: 113-98-4 (G Potassium)

RTECS Number: XH9700000 (G Potassium)

Chemical Name: 4-thia-1-azabicyclo (3.2.0) heptane-2-carboxylic acid,3,3,-dimethyl-7-oxo-6-(2-phenyl acetamido)-(2S-(2alpha,5alpha,6beta))-, monopotassium salt (9 CI).

Chemical Family: Penicillin

Therapeutic Category: Antibacterial, Antibiotic

Formula: $C_{16}H_{17}KN_2O_4S$

SECTION 2 - PHYSICAL AND CHEMICAL CHARACTERISTICS

Boiling Point: N/A

Vapor Pressure: N/A

Specific Gravity ($H_2O=1$): N/A

Percent Volatile by Volume: N/A

Vapor Density (air=1): N/A

Melting Point: Decomposes at 214°C

Evaporation Rate: N/A

Solubility in Water: Soluble

Reactivity in Water: N/A

Appearance and Odor: Colorless or white crystalline powder, virtually odorless

Freezing Point: N/A

SECTION 3 - FIRE AND EXPLOSION DATA

Flash Point: N/A

Flammable Limits: N/A

Auto-ignition Temperature: N/A

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

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

Unusual 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. When heated to decomposition, material emits toxic fumes. Emits toxic fumes under fire conditions.

SECTION 4 - REACTIVITY DATA

Stability:	Stable
Conditions to Avoid:	Material is stable from a safety point of view.
Materials to Avoid:	N/A
Hazardous Decomposition or By-Products:	When heated to decomposition, material emits toxic fumes. Emits toxic fumes under fire conditions.
Hazardous Polymerization:	Will not occur

SECTION 5 - HEALTH HAZARD DATA

Threshold Limit Value:	None established.
Signs and Symptoms of Overexposure:	Penicillin G Potassium CAS RN: 113-98-4 LD ₅₀ : 6,700 mg/kg oral-rat LD ₅₀ : 11,250 mg/kg subcutaneous-rat LD ₅₀ : 6,257 mg/kg oral-mouse LD ₅₀ : 400 mg/kg intravenous mouse LD ₅₀ : 2 mg/kg intracerebral LD ₅₀ : 5,848 mg/kg oral-rabbit LD ₅₀ : 382 mg/kg oral-guinea pig LD ₅₀ : 500 mg/kg intraperitoneal-guinea pig LD ₅₀ : 303 mg/kg intravenous-guinea pig Mutation Data (RETECS)
Route(s) of entry:	Inhalation, ingestion, skin contact, eye contact.
Health Hazards (acute and chronic):	
Inhalation:	Possible allergic reaction to dust if inhaled. Reported symptoms include labored breathing. Respiratory tract irritation and wheezing.
Ingestion:	Possible allergic reaction to dust if ingested including nausea, chills and fever.
Skin Contact:	Possible allergic reaction to dust if in contact with skin including irritations such as skin rash, hives, and itching.
Eye Contact:	Possible allergic reaction to dust if in contact with eyes inducing irritations such as itching.
Other Hazards:	Possible hypersensitization. Persons developing hypersensitivity (anaphylactic) reactions must receive immediate medical attention. Harmful if swallowed, inhaled or absorbed through skin. Individuals with previous history or significant allergy (especially to antibiotics) and/or asthma should avoid potential exposure to this material. Individuals hypersensitive to one penicillin may be hypersensitive to other penicillins, also. Individuals hypersensitive to cephalosporins, griseofulvin, or penicillamine may be hypersensitive to penicillins, also. Allergic reactions are more common than frank toxicity. Anaphylactic shock is rare, but can follow a one-microgram test dose. It is best managed by epinephrine. Accelerated (one to 72 hours) and late urticarial reactions are much more common. Material may be irritating to mucous membranes and respiratory tract. As a general rule, avoid all contact and inhalation of dust, fumes, mist, and/or vapors associated with the material. Keep container tightly closed and use with adequate ventilation; wash thoroughly after handling. Individuals working with chemicals should consider all chemicals to be potentially hazardous even if their individual hazards may be uncharacterized or unknown.
Medical Conditions Aggravated by Exposure:	Hypersensitivity to material
ACGIH TLV:	N/A
Other exposure limits used:	N/A
OSHA Permissible Exposure Limit:	Not established
Other Exposure Limit Used:	Not established
Carcinogenicity:	None
Emergency and First Aid Procedures:	Remove from exposure. Remove contaminated clothing. Persons developing serious hypersensitivity reactions must receive immediate medical attention. Upon eye or skin contact, flush affected area with copious quantities of water. Obtain medical attention. Serious acute hypersensitivity reactions may require epinephrine and other emergency measures. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
Inhalation:	May cause irritation of respiratory tract. Avoid inhalation. Remove to fresh air.
Eyes:	May cause irritation. Flush with copious quantities of water.
Skin:	May cause irritation. Flush with copious quantities of water.
Ingestion:	May cause irritation. Flush out mouth with water.

SECTION 6 - SPECIAL PROTECTION INFORMATION AND PRECAUTIONS FOR HANDLING AND USE

Action to be taken in case of spills: Wear approved respirator and chemically compatible gloves. Vacuum or sweep up spillage. Avoid dust. Place spillage in appropriate container for waste disposal. Wash contaminated clothing before reuse. Ventilate area and wash spill site.

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

Handling and Storing Precautions: Store in sealed container as supplied. This material should be handled and stored per label, and other instructions to ensure product integrity. Avoid contact with eyes, skin or clothing. Avoid breathing dust or mist. Use with adequate dust control. Wash thoroughly after handling. Wear fresh clothing daily. Wash contaminated clothing before reuse. Do not permit eating, drinking or smoking near material.

SECTION 7 - CONTROL MEASURES

Respiratory Protection: NIOSH approved respirator.

Ventilation: Adequate, local and mechanical exhaust recommended.

Protective Gloves: Impervious.

Eye Protection: Safety goggles.

Other Protective Clothing or Equipment: Protect exposed skin, appropriate apparel.

Work/Hygienic Practices: Wash with soap and water thoroughly after handling. Wash contaminated clothing before reuse. Wear fresh clothing daily. Do not permit eating, drinking or smoking near material.

SECTION 8 - REGULATORY INFORMATION

Status on Substance Lists: The concentrations shown are maximum or ceiling levels (weight %) to be used for calculations for regulations.