

SAFETY DATA SHEET

1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: Penicillin G, Sodium Salt

PRODUCT NUMBER:

COMPANY INFO: PhytoTechnology Laboratories®

PO Box 12205, Shawnee, KS 66282-2205

Phone: 1-888-749-8682 or 1-913-341-5343; Fax: 1-888-449-8682 or 1-913-341-5442

www.phytotechlab.com

1-800-535-5053 - US Only EMERGENCY PHONE NUMBER: 1-352-323-3500 - International

RECOMMENDED USE: For Research Use Only

Products sold by PhytoTechnology Laboratories are intended for research and laboratory use

RESTRICTIONS ON USE: only. Products are not to be used as human or animal therapeutics, cosmetics, agricultural or

pesticidal products, food additives, or as household chemicals.

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS Classification:

H334 – Respiratory sensitization (Category 1)

H317 – Skin sensitization (Category 1)

GHS Label elements, including hazard and precautionary statements:

Hazard Statements:

Pictogram:

H317 – May cause an allergic skin reaction.

H334 - May cause sensitization by inhalation and skin

contact.

Danger

Signal Word:

Precautionary Statements:

P261 - Avoid breathing dust.

P280 - Wear suitable protective clothing, gloves, and

eye/face protection.

P342 + P311 – If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

3. COMPOSITION/INFORMATION ON INGREDIENTS

(2S,5R,6R)-3,3-Dimethyl-7-oxo-6-[(phenylacetyl)amino]-4-thia-1-azabicyclo-Synonyms:

[3.2.0]heptane-2-carboxylic Acid, Sodium Salt; Benzylpenicillinsodium salt

CAS No.: 69-57-8

Formula: C16H17N2O4SNa

Molecular Weight: 356.4 g/mol

EC No.: 200-710-2

Ingredient	CAS Number	Potency	Hazardous
Penicillin G, Sodium Salt	69-57-8	>1500 μg/mg	No exposure limits established by OSHA or ACGIH

4. FIRST AID MEASURES

General Advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous

area.

Product No: P777 Page 1 of 5 **Route of Entry Symptoms First Aid Procedures** Ingestion May cause irritation if swallowed If swallowed, wash out mouth with water. Never give anything by mouth to an unconscious person. Get medical attention. Inhalation Safely remove victim to fresh air. If not breathing, institute May cause irritation to respiratory tract cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. Get medical attention. **Eye Contact** Direct contact may cause irritation. Flush immediately with large amounts of water for at least 15 May cause redness, tearing, or minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get medical attention if irritation blurred vision. persists. Skin Contact Irritating. May cause reddening, Wash area thoroughly with soap and water. Remove and wash itching or inflammation. contaminated clothing. Get medical attention if irritation persists.

Most Important Symptoms or Effects, Both Acute and Delayed:

See section 2 and/or section 11

Recommendation for Immediate Medical Care and Special Treatment Needed:

No data available

5. FIRE FIGHTING MEASURES

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

extinguishing media suitable for surrounding fire.

Special Protective Equipment and

Precaution for Firefighters:

In the event of a fire, wear full protective clothing and NIOSH approved self-

contained breathing apparatus. Evacuate the area and fight fire from a safe distance.

Hazardous Combustion Products: May emit toxic fumes under fire conditions.

Toxic Gases Produced: Carbon dioxide, nitrogen oxides (NOx), sulfur oxides, sodium oxides.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protection recommended in Section 8. Avoid dust formation. Avoid breathing dust, vapors, mist or gas. Ensure adequate ventilation, especially in confined areas. Evacuate personnel to safe areas.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Method of Containment and Cleanup: Wear suitable protective clothing. Avoid dust formation. Avoid breathing vapors,

mist or gas. Carefully sweep up and remove. Place material in a dry container and cover. Remove from the area. Flush spill area with water. Do not let product enter

drains.

7. HANDLING AND STORAGE

Precaution for Safe Handling: Avoid contact with skin and eyes. Avoid dust formation and aerosols. Avoid

incompatible substances. Wash thoroughly after use.

Conditions for Safe Storage: Keep in a tightly closed container and store in a cool, dry, and well-ventilated area.

Persons allergic to the penicillin family of chemicals should not handle this product.

Incompatibilities: Strong oxidizing agents, acid, heavy metal salts

Recommended Storage Temperature: Room Temperature

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA's Permissible Exposure Limits (PELs): No data available Threshold Limit Values (TLVs): No data available

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Engineering Controls: Handle in accordance to general industrial hygiene and safety practice.

Personal Protective Equipment (PPE):

Eye/Face Protection: Chemical safety glasses or goggles. Have eye-washing facilities readily available where

eye contact can occur.

Protective gloves **Skin Protection:**

Body Protection: Lab coat

Respiratory Protection: Wear appropriate respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

White to off-white powder Appearance:

pH (1.00 g/L) Under Development (5.5 - 7.5 suspected range)

Solubility: Soluble in Water Melting Point: ~210-215 °C

Vapor Density: No data available Vapor Pressure: No data available Specific Gravity: No data available

Odor: Odorless

Odor Threshold: No data available Viscosity: No data available Relative Density: No data available

No data available **Evaporation Rate:**

Initial Boiling Point and

No data available Boiling Range:

Flammability (solid, gas): No data available

Partition coefficient:

No data available n-octanol/water): Auto-ignition Temperature: No data available **Decomposition Temperature:** No data available No data available Flash Point (Closed Cup):

Flammable Limits: Upper (%) – No data available Lower (%) – No data available

10. STABILITY AND REACTIVITY

No data available Reactivity:

Chemical Stability: Stable under normal conditions of use

Possibility of Hazard Reactions: Will not occur

Conditions to Avoid: Incompatibles, moist air

Incompatibles Materials: Strong oxidizing agents, acid, heavy metal salts

Carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides, sodium oxides. Hazardous Decomposition Products:

11. TOXICOLOGICAL INFORMATION

Toxicity: LD₅₀ (Oral-Rat)(mg/Kg): 6916

> 1500 LD₅₀ (Oral-Mouse)(mg/Kg):

LD₅₀ (Oral-Rabbit)(mg/Kg): No data available

Carcinogenicity: NTP: No

> IARC: No

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Reproductive Toxicity: No data available

Symptoms Associated with

Overexposure:

Nausea, vomiting, headaches, dizziness, gastrointestinal upset, irritation, convulsions, breathing

difficulties, allergic reaction, possible mutagenic, tumorigenic, and reproductive effects

Specific Target Organ

Toxicity:

Single Exposure: No data available

Repeated Exposure: No data available

Target Organs: None identified

Medical Conditions

If you are allergic to penicillins or if you are pregnant, do not handle this product

Aggravated By Exposure:

Routes of Entry: Ingestion, inhalation, skin and eye contact

NIOSH/RTECS: XH9800000

The toxicological properties of this product have not been thoroughly investigated

12. ECOLOGICAL INFORMATION

Ecotoxicity: No data available

Persistence and Degradability: No data available

Bioaccumulative Potential: No data available

Mobility in Soil: No data available

Other Adverse Effects: No data available

13. DISPOSAL CONSIDERATION

Disposal Procedure: Dispose in accordance with all applicable federal, state, and local environmental

regulations.

EPA Hazardous Waste Number: No data available

14. TRANSPORT INFORMATION

Domestic (D.O.T.): Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class: N/A
UN/NA: N/A
Labels: N/A

International:

IMDG: Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class: N/A
UN/NA: N/A
Labels: N/A

IATA: Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class: N/A
UN/NA: N/A
Labels: N/A

15. REGULATORY INFORMATION

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TSCA: No

SARA TITLE III:

Section 302 (EHS) Ingredients: No
Section 313 Ingredients: No
Section 304 (EHS/CERCLA) Ingredients: No

Section 311/312 Hazard: Chronic Health Hazard

Massachusetts Right to Know Components: No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right to Know Components: CAS No.: 69-57-8

Sodium [2S- $(2\alpha,5\alpha,6\beta)$]-3,3-dimethyl-7-oxo-6-

(phenylacetamido)-4-thia-1-azabicyclo[3.2.0]heptane-2-

carboxylate

New Jersey Right to Know Components: CAS No.: 69-57-8

Sodium [2S- $(2\alpha,5\alpha,6\beta)$]-3,3-dimethyl-7-oxo-6-

(phenylacetamido)-4-thia-1-azabicyclo[3.2.0]heptane-2-

carboxylate

California Prop. 65 Components: This product does not contain any chemicals known to State of California to

cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

HMIS Rating:

NFPA Rating:

Health Hazard	Chronic Health Hazard	Flammability	Physical Hazard
3	*	0	0
Health Hazard	Health Hazard Fire Hazard		Special Hazard
3	0	0	

^{*}Chronic Hazard: Chronic (long-term) health effects may result from repeated overexposure.

Phyto Technology Laboratories® provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. The above information is intended to be used only as a guide to the appropriate precautionary handling of this material by a properly trained person. Phyto Technology Laboratories® shall not be held liable for any damage resulting from handling or from contact with the above product. This product is intended for LABORATORY USE ONLY. Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticidal products, food additives or as household chemicals.

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