

# SAFETY DATA SHEET

## PENICILLIN G

### SECTION 1: CHEMICAL AND COMPANY IDENTIFICATION

**BioShop Canada Inc.**  
**5480 Mainway**  
**Burlington, Ontario L7L 6A4**  
**1-800-234-1179**  
**Emergency Telephone No.: 1-905-466-3832**  
**Chemical Name:** Penicillin G  
**Catalog Number:** PEN333  
**Recommended use:** for research purposes only

### SECTION 2 HAZARDS IDENTIFICATION

**GHS Classification:**  
Respiratory sensitization, Category 1  
Skin sensitization, Category 1

Pictogram



Signal word: Danger

Hazard statements:

H317 May cause an allergic skin reaction  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statement:

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P280 Wear protective gloves  
P342+P311 If experiencing respiratory symptoms: call a POISON CENTER or doctor/physician

**Potential health effects:**

Inhalation: May be harmful if inhaled  
Skin: May be harmful if absorbed through skin  
Eyes: May cause eye irritation  
Ingestion May be harmful if swallowed

### SECTION 3 COMPOSITION/ INGREDIENTS

	CAS #	%
Penicillin G	69-57-8	100%

**Molecular Formula:** C16H17N2NaO4S  
**Molecular Weight:** 356.37

### SECTION 4 FIRST AID MEASURES

**Eyes:** Flush eyes with plenty of water for at least 15 minutes. If irritation persists get medical attention.  
**Skin:** Flush area immediately with plenty of soap and water.  
**Inhalation:** Remove victim to fresh air. If not breathing give artificial respiration. Get medical attention if symptoms persist.  
**Ingestion:** Wash mouth with water.

### SECTION 5 FIRE FIGHTING MEASURES

**General Information:** Always wear full protective gear in the event of a fire. Toxic gases and vapors may be generated by decomposition or combustion. Excessive dust in combination with air can create an explosive mixture.  
**Flammable:** No  
**Flash Point:** N/A  
**Autoignition Temperature:** N/A  
**Extinguishing Media:** Use water spray, foam, dry chemical or carbon dioxide.  
**Explosion Data:** Not available

### SECTION 6 ACCIDENTAL RELEASE MEASURES

Ventilate the area. Wear appropriate protective equipment. Sweep and place in a closed container. In the event of a fire always wear self-contained breathing apparatus, NIOSH/MSHA approved or equivalent.  
**Leak and Spill Procedures:** Ventilate the area. Wear appropriate protective equipment. Cover with dry lime or soda. Sweep and place in a closed container. Avoid generating dust.

### SECTION 7 HANDLING AND STORAGE

**Handling:** Avoid contact. Do not get in eyes, on skin, or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse. Minimize dust generation.  
**Storage Conditions:** 4C.

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure limits: none listed**  
Use adequate ventilation.  
Wear appropriate protective equipment to prevent eye and skin exposure.  
Wear appropriate respirator to prevent lung irritation.  
**Personal Protection:** Lab coat, safety goggles, rubber gloves.  
**Ventilation:** Use appropriate exhaust ventilation.  
**Respiratory protection:** use OSHA/MSHA approved dust masks.

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Solid  
**Appearance and Odor:** WHITE POWDER  
**Freezing/Melting Point:** N/A

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**Boiling Point:** N/A  
**Specific Gravity:** N/A  
**Vapor Density:** N/A  
**Solubility:** soluble in water  
**pH:** N/A

Prepared By: M.Kierdelewicz (President)  
Date Prepared: Jan 1/2025  
Phone: (800) 234-1179

The information provided on this Material Safety Data Sheet is furnished in good faith and without warranty of any kind. The above information is believed to be correct and should be used only as a guide. BioShop Canada Inc. shall not be held liable for any damage resulting from the handling or from the contact with the above product.  
Observe all federal, provincial and state laws concerning health, safety and pollution.

### SECTION 10 STABILITY AND REACTIVITY:

**Stability:** Stable under normal temperatures and pressure  
**Conditions to avoid:** dust generation. Excess heat  
**Incompatibility:** Strong oxidizing agents  
**Hazardous Decomposition Products:** Nitrogen oxides, carbon monoxide, carbon dioxide,  
**Hazardous Polymerization:** Will not occur

### SECTION 11 TOXICOLOGICAL PROPERTIES

#### Exposure Limits:

LD50 / LC50:  
LD50 Oral, rat: 6,916mg/kg

**Epidemiology:** No data available  
**Teratogenicity:** No data available  
**Reproductive Effects:** No data available  
**Neurotoxicity:** No data available  
**Mutagenicity:** Laboratory experiments have shown mutagenic effects on a variety of animals  
**Carcinogenicity:** Not listed by ACGIH, IARC, NTP, or OSHA

### SECTION 12 ECOLOGICAL INFORMATION

**Toxicity:**  
No information found.

### SECTION 13 DISPOSAL CONSIDERATION

**Waste Disposal:** Burn in chemical incinerator. Observe all Federal, provincial and local regulations.

### SECTION 14 TRANSPORT INFORMATION

#### Shipping Information:

DOT (US): not dangerous  
IMDG: not dangerous  
IATA: not dangerous

### SECTION 15 REGULATORY INFORMATION

**US:** TSCA: listed  
**Canada:** WHMIS: D2B

### SECTION 16 ADDITIONAL INFORMATION