

# SAFETY DATA SHEET

## HYGROMYCIN B

### 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:** Hygromycin B  
**Catalog Number:** HYG005

P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.  
P361 + P364 Take off immediately all contaminated clothing and wash it before reuse.  
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.  
P501 Dispose of contents/ container to an approved waste disposal

**Potential health effects;**  
**VERY TOXIC**  
**Eyes:** Causes serious damage.  
**Skin:** Very toxic if exposed to skin.  
**Inhalation:** Very toxic if inhaled.  
**Ingestion:** Very toxic if swallowed

### SECTION 2 HAZARDS IDENTIFICATION

**GHS Classification:**

Acute toxicity, Oral (Category 2)  
Acute toxicity, Inhalation (Category 1)  
Acute toxicity, Dermal (Category 2)  
Serious eye damage (Category 1)  
Respiratory sensitisation (Category 1)

**Pictogram:**



**Signal word** Danger

**Hazard statement**

H300 + H310 + H330 Fatal if swallowed, in contact with skin or if inhaled.  
H318 Causes serious eye damage.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Precautionary statement**

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
P262 Do not get in eyes, on skin, or on clothing.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P284 Wear respiratory protection.  
P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.  
P302 + P352 + P310 IF ON SKIN: Wash with plenty of water. Immediately call a POISON CENTER/doctor.  
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.  
P305 + P351 + P338 + P310  
IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

### SECTION 3 COMPOSITION/ INGREDIENTS

	CAS#	%
<b>Hygromycin B</b>	<b>31282-04-9</b>	<b>&gt;98</b>

Molecular Formula: C<sub>20</sub>H<sub>37</sub>N<sub>3</sub>O<sub>13</sub>  
Molecular Weight: 527.5

### SECTION 4 FIRST AID MEASURES

**Eyes:** Flush eyes with water .  
**Skin:** In case of contact, flush area immediately with water. Get medical aid  
**Inhalation:** Remove victim to fresh air. Get medical aid  
**Ingestion:** Wash mouth with water. Get medical aid

### SECTION 5 FIRE FIGHTING MEASURES

**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. Respiratory protection is required. Wear protective gloves and protective clothing. Wear safety glasses.  
**Leak and Spill Procedures:** Ventilate the area. Wear appropriate protective equipment. Cover with dry lime or soda. Sweep and place in a closed container

### 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.  
**Storage Conditions:** Room temperature.

### SECTION 8 EXPOSURE CONTROLS/PERSONAL

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### PROTECTION

Exposure limits: none listed  
Use adequate ventilation. AVOID DUST GENERATION.  
Wear appropriate protective equipment to prevent eye and skin exposure.  
Wear appropriate respirator to prevent inhalation exposure..  
**Personal Protection:** Lab coat, safety goggles, rubber gloves, respirator  
**Ventilation:** Local exhaust systems. Use fume hood  
**Respiratory protection:** use OSHA/MSHA approved respirator.

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** solid  
**Appearance and Odor:** white powder. Odorless.  
**Melting Point:** N/A  
**Boiling Point:** N/A  
**Specific Gravity:** N/A  
**Vapor Density:** N/A  
**Water Solubility:** N/A  
**pH:** N/A

### SECTION 10 STABILITY AND REACTIVITY:

**Stability:** Stable at normal room temperature and pressure  
**Conditions to avoid:** dust generation  
**Incompatibility** strong oxidizing agents.  
**Hazardous Decomposition Products:** carbon dioxide, carbon monoxide and nitrogen oxides, toxic fumes of sodium.  
**Hazardous Polymerization:** Has not been reported

### SECTION 11 TOXICOLOGICAL PROPERTIES

#### Exposure Limits:

#### Toxicity Data:

**LD50 Oral = 13 mg/kg (Rat)**  
**LD50 Inhalation = 2.22 mg/L (Rat) 4h**  
**LD50 Intraperitoneal = 63 mg/kg (Rat)**  
**LD50 Intravenous = 6 mg/kg (Mouse)**  
**LD50 Intraperitoneal = 13 mg/kg (Guinea Pig)**

**Epidemiology:** No data available  
**Teratogenicity:** No data available  
**Reproductive Effects:** No data available  
**Neurotoxicity:** No data available  
**Mutagenicity:** may cause genetic damage  
**Carcinogenicity:** possible carcinogen

### SECTION 12 ECOLOGICAL INFORMATION

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:

#### IATA:

UN #: 2811. Toxic solid, organic, n.o.s. (Hygromycin B) Class 6.1 Packing II

#### TDG:

UN#2811 . Toxic solid, organic, n.o.s. (Hygromycin B) Class 6.1 Packing II

### SECTION 15 REGULATORY INFORMATION

**US :** TSCA: listed  
**European/International:** N/A  
**Canada:** WHMIS: D2B

### SECTION 16 ADDITIONAL INFORMATION

Prepared By: M.Kierdelewicz (President)  
Date Prepared: Dec 29/2021  
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.