

# SAFETY DATA SHEET (SDS)



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**Product Name:** Hygromycin B Antibiotic Solution

**Product Number:** MIR 5930

**Revision Date:** JUL 28 2020

**Print Date:** OCT 18 2021

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## SECTION 1. IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product Identifier:

1.1.1. **Product Name:** Hygromycin B Solution

1.1.2. **Product Code:** MIR 5930

1.1.3. **CAS No.:** Not applicable.

### 1.2. Relevant Identified Uses of the Mixture and Uses Advised Against:

1.2.1. **Identified Uses:** For research use only.

1.2.2. **Uses Advised Against:** Not known.

### 1.3. Details of the Supplier of the SDS:

1.3.1. **Company:** Mirus Bio LLC

1.3.2. **Address:** 5602 Research Park Blvd, Suite 210, Madison, WI 53719, USA

1.3.3. **Telephone No.:** 888.530.0801 (Toll Free within the U.S.) or +1.608.441.2852

1.3.4. **Fax:** +1.608.441.2849

1.3.5. **Email:** [info@mirusbio.com](mailto:info@mirusbio.com)

### 1.4. Emergency Telephone No.:

1.4.1. **US and Canada:** +1.800.633.8253

1.4.2. **International:** +1.801.629.0667

## SECTION 2. HAZARDS IDENTIFICATION

### 2.1. Classification of the Substance or Mixture:

US CFR 1910.1200

Acute toxicity, Oral (Category 2), H300  
Acute toxicity, Inhalation (Category 1), H330  
Acute toxicity, Dermal (Category 2), H310  
Serious eye damage (Category 1), H318

### 2.2. Label Elements:

2.2.1. **Product Name:**

Hygromycin B Solution



2.2.2. **Hazard Pictogram(s):**

2.2.3. **Signal Word(s):**

Danger

**Hazard Statement(s):**

H300+H310+H330: Fatal if swallowed, in contact with skin or if inhaled.

H318: Causes serious eye damage.

2.2.4. **Precautionary Statement(s):**

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3. **Other Hazards:** Not applicable.

2.4. **Additional Information:** None.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. **Substances:**

Not applicable.

3.2. **Mixtures:**

Hazardous Ingredient(s)	CAS No.	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
Hygromycin B	31282-04-9	5	Acute tox., Oral 2 H300 Acute tox., Derm. 2 H310 Acute tox., Inh. 1 H330 Serious eye dam. 1 H318	GHS 05 GHS 06

### SECTION 4. FIRST AID MEASURES

4.1. **Description of First Aid Measures:**

4.1.1. **Inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

4.1.2. **Skin Contact:** Take off all contaminated clothing immediately. Wash off with soap and plenty of water. Consult a physician.

4.1.3. **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Call a poison center and/or doctor.

4.1.4. **Ingestion:** Rinse mouth with water. Call a poison center and/or doctor.

4.2. **Most Important Symptoms and Effects, Both Acute and Delayed:**

May cause irritation to respiratory tract or eyes if directly contacted. May cause an allergic skin reaction.

4.3. **Indication of Any Immediate Medical Attention and Special Treatment Needed:**

Call a poison center and/or doctor. Treat symptomatically.

### SECTION 5. FIREFIGHTING MEASURES

5.1. **Extinguishing Media:**

5.1.1. **Suitable Extinguishing Media:**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.1.2. **Unsuitable Extinguishing Media:**

No information available.

5.2. **Specific Hazards Arising from the Mixture:**

Carbon oxides, nitrogen oxides, and sulfur oxides.

### 5.3. Advice for Firefighters:

Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures:

Provide adequate ventilation. Wear suitable protective clothing, gloves and eye/face protection.

### 6.2. Environmental Precautions:

This material and its container must be disposed of in a safe way.

### 6.3. Methods and Materials for Containment and Cleaning Up:

Absorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal.

## SECTION 7. HANDLING AND STORAGE

### 7.1. Precautions for Safe Handling:

Handle in accordance with good industrial hygiene and safety practices. Wear protective gloves and eye/face protection.

### 7.2. Conditions for Safe Storage, Including Any Incompatibilities:

Store tightly closed in a well-ventilated place. Keep cool.

7.2.1.Storage Temperature: 4°C.

7.2.2.Storage Life: Stable under normal conditions.

### 7.3. Specific End Use(s): For research use only.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters:

8.1.1.Occupational Exposure Limits: Not applicable.

### 8.2. Exposure Controls:

#### 8.2.1.Appropriate Engineering Controls:

Ensure adequate ventilation. A washing facility/water for eye and skin cleaning purposes should be present.

#### 8.2.2.Personal Protective Equipment:

8.2.2.1. Eye Protection: Tightly fitting safety glasses with side shields.

8.2.2.2. Skin Protection: Protective clothing and gloves.

8.2.2.3. Respiratory Protection: Normally no personal respiratory protection is necessary.

8.2.2.4. Thermal Hazards: None known.

### 8.3. Environmental Exposure Controls:

Avoid release to the environment.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties:

9.1.1.Appearance Liquid  
Color: colorless.

9.1.2.Odor: No data available.

9.1.3.Odor Threshold: No data available.

**9.1.4. pH:** No data available.

**9.1.5. Melting Point/freezing Point:** No data available.

**9.1.6. Initial Boiling Point and Boiling Range:** No data available.

**9.1.7. Flash Point:** No data available.

**9.1.8. Evaporation Rate:** No data available.

**9.1.9. Flammability (Solid, Gas):** No data available.

**9.1.10. Upper/lower Flammability or Explosive Limits:**

Upper explosion limit: No data available.

Lower explosion limit: No data available.

**9.1.11. Vapor Pressure:** No data available.

**9.1.12. Vapor Density:** No data available.

**9.1.13. Density:** No data available.

**9.1.14. Relative Density:** No data available.

**9.1.15. Solubility(ies):** Water soluble.

**9.1.16. Partition Coefficient:** No data available.

**9.1.17. Auto-ignition Temperature:** No data available.

**9.1.18. Decomposition Temperature:** No data available.

**9.1.19. Viscosity:** No data available.

**9.1.20. Explosive Properties:** No data available.

**9.1.21. Oxidizing Properties:** No data available.

**9.2. Other Information:** None.

## SECTION 10. STABILITY AND REACTIVITY

**10.1. Reactivity:** None anticipated.

**10.2. Chemical Stability:** Stable under recommended storage conditions.

**10.3. Possibility of Hazardous Reactions:** No hazardous reactions known if used for its intended purpose.

**10.4. Conditions to Avoid:** None known.

**10.5. Incompatible Materials:** Strong oxidizing agents.

**10.6. Hazardous Decomposition Products:** Under fire conditions, carbon oxides, nitrogen oxides and sulfur oxides.

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on Toxicological Effects:

**11.1.1. Acute Toxicity – Ingestion:** Geneticin, LD50, 13 mg/kg (rat)

**11.1.2. Acute Toxicity – Skin Contact:** Not classified.

**11.1.3. Acute Toxicity – Inhalation:** Geneticin, LD50, 2.220 mg/L (rat), Exposure time: 4 hr, Test atmosphere: dust/mist

**11.1.4. Skin Corrosion/irritation:** Irritating to skin.

**11.1.5. Serious Eye Damage Irritation:** Risk of serious damage to eyes.

**11.1.6. Skin Sensitization Data:** Not classified.

**11.1.7. Respiratory Sensitization Data:** May be harmful.

**11.1.8. Germ Cell Mutagenicity:** Not classified.

### 11.1.9. Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**11.1.10. Reproductive Toxicity:** Not classified.

**11.1.11. Lactation:** Not classified.

**11.1.12. Specific Target Organ Toxicity - Single Exposure:** Not classified.

**11.1.13. Specific Target Organ Toxicity - Repeated Exposure:** Not classified.

**11.1.14. Aspiration Hazard:** Not classified.

**11.2. Additional Information:** None.

## SECTION 12. ECOLOGICAL INFORMATION

**12.1. Ecotoxicity (Aquatic and Terrestrial, Where Available):** No data available.

**12.2. Persistence and Degradation:** No data available.

**12.3. Bioaccumulative potential:** No data available.

**12.4. Mobility in Soil:** No data available.

**12.5. Other Adverse Effects:** No data available.

## SECTION 13. DISPOSAL CONSIDERATIONS

**13.1. Waste Treatment Methods:** Remove waste in accordance with local and/or national regulations. Offer surplus and non-recyclable solutions to a licensed disposal company.

**13.2.** To minimize exposure, refer to Section 8 (Exposure Controls/Personal Protection) of the SDS.

## SECTION 14. TRANSPORT INFORMATION

**14.1. UN Number:** 2810

**14.2. UN Proper Shipping Name:** Toxic liquid, organic, n.o.s. (Hygromycin B Solution)

**14.3. Transport Hazard Class(es):** 6.1

**14.4. Packing Group, If Applicable:** II

**14.5. Environmental Hazards:** Not classified as a marine pollutant.

**14.6. Guidance on Transport in Bulk (According to Annex II of MARPOL 73/783 and the International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (International Bulk Chemical Code (IBC Code)):** None.

**14.7. Other Special Precautions Related to Transport:** None.

## SECTION 15. REGULATORY INFORMATION

**15.1. Safety, Health and Environmental Regulations Specific for the Product in Question:**

### **SARA 302/313 Components**

SARA 302: This material is not subject to the reporting requirements of SARA Title III, Section 302.

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

### **SARA 311/312 Hazards**

Acute toxicity (any route of exposure), serious eye damage or irritation, respiratory or skin sensitization. Chronic health hazard.

### **California Prop. 65 Components**

WARNING: This product can expose you to chemicals including Hygromycin B from *Streptomyces*

*hygroscopicus*, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contain HAPs.

**WHMIS Hazard Class**

D1A Very toxic materials

D2A Very toxic materials

D2B Toxic materials

**SECTION 16. OTHER INFORMATION**

**16.1. Revision Date:** 17 June 2020

**16.2. Reason for Revision:** Change in address of supplier.

**16.3. Additional Information:** None.

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