

## Section 1 - Product and Company Information

**Product Name:** HygroGold™ (solution)

**Cat. Code:** ant-hg-1, ant-hg-5

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**Company identification:**

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## Section 2 - Composition/Information on Ingredient

**Substance Name:** Hygromycin B  
**Concentration:** 100 mg/ml (10 % solution)  
**CAS #:** 31282-04-9

**Molecular formula:** C<sub>20</sub>H<sub>37</sub>N<sub>3</sub>O<sub>13</sub> HCL  
**Molecular weight:** 564  
**EC number:** N/A

## Section 3 – Hazards Identification

**Emergency Overview:** Highly Toxic (USA) Very Toxic (EU).  
Risk of serious damage to eyes. Very toxic by inhalation, in contact with skin and if swallowed. May cause sensitization by inhalation and skin contact.

**HMIS Classification:** Health Hazard **4**, Flammability Hazard **0**, Reactivity Hazard **0**  
**NFPA Rating:** Health Hazard **4**, Fire **0**, Reactivity Hazard **0**

### Potential Health Effects

- **Eye contact:** May cause eye irritation.
- **Skin contact:** Causes skin irritation.
- **Skin absorption:** Toxic if absorbed through the skin.
- **Inhalation:** Toxic if inhaled. May cause respiratory tract irritation.
- **Ingestion:** Toxic if swallowed.

## Section 4 – First Aid Measures

**General advice:** Consult a physician. Show this material safety data sheet to the doctor in attendance.  
**After skin contact:** Immediately wash skin with soap and plenty of water. Consult a physician.  
**After swallowing:** Never give anything by mouth to an unconscious person. Rinse mouth with water provided person is conscious. Consult a physician.  
**After inhalation:** Remove to fresh air. If not breathing give artificial respiration. Consult a physician.  
**After eye contact:** Immediately flush eyes with plenty of water for at least 15 minutes. Consult a physician.

## Section 5 – Fire Fighting Measures

**Extinguishing Media:** Water spray, carbon dioxide, dry chemical powder or appropriate foam.  
**Special Firefighting Procedures:** N/A  
**Flammability:** N/A

**Unusual Fire and Explosions Hazard (s):** N/A  
**Flash point:** N/A  
**Auto-ignition Temp:** N/A

## **Section 6 – Accidental Release Measures**

**Personal precautions:** Wear protective equipment. Keep unprotected persons away. Avoid dust formation.

**Method for Cleaning Up:** Absorb on sand or vermiculite and place in closed containers for disposal. Dispose contaminated material as waste according to section 13. Ventilate area and wash spill site after material clean-up is complete.

## **Section 7– Handling and Storage**

**Handling:** Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure.

**User Exposure:** Avoid Inhalation. Use personal protective equipment (i.e. impermeable gloves, lab coat or apron).

**Storage:** Keep tightly closed. Store at –20°C.

## **Section 8 – Exposure Controls / PPE**

**Engineering Measures:** Ensure adequate ventilation, especially in confined areas.

### **Personal Protective Equipment**

**Hand:** Protective gloves to prevent skin contact. **Eye:** Chemical safety goggles

**General Hygiene Measures:** Wash hands thoroughly after handling.

## **Section 9 – Physical / Chemical Properties**

**Appearance:** Yellow

**Physical State:** Liquid

**Solubility in Water:** Liquid – readily miscible in water

## **Section 10 – Stability and Reactivity**

**Stability:** Stable

**Hazardous Polymerization:** Will not occur

**Materials to avoid:** Strong oxidizing agents

**Hazardous Decomposition Products:** Nature of decomposition products are not hazardous.

## **Section 11 – Toxicological Information**

### **Acute toxicity:**

LD50 Intraperitoneal: 63 mg/kg rat, 13 mg/kg guinea pig

LD50 Intravenous: 6 mg/kg mouse

**Primary irritant effect:** N/A

**Sensitization:** Respiratory: May cause allergic respiratory reaction.

Skin: May cause allergic skin reaction.

**Target Organ:** Ears

**Additional toxicological information:** Toxic

## **Section 12 – Ecological Information**

**Ecotoxicity:** Data not yet available.

**Mobility:** Data not yet available.

**Biodegradation:** Data not yet available.

**Bioaccumulation:** Data not yet available.

### **Section 13 – Disposal Considerations**

**Product:** Observe all federal, state and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Must not be disposed of together with household garbage.

**Contaminated Packaging:** Dispose of as unused product.

### **Section 14 – Transport Information**

**DOT (US):** Proper Shipping Name: Toxic, liquids, organic, n.o.s. [Inhalation hazard, Packing Group I, Zone A] UN#: 2810

Class: 6.1 Packing Group: Packing Group I Hazard Label: Poison inhalation hazard PIH: Zone A

**IATA:** UN#: 2810 Class: 6.1 PG: I Proper Shipping Name: Toxic liquid, organic, n.o.s.

Inhalation Packing Group I: No Technical Name: Required

**IMDG:** UN#: 2810 Class: 6.1 PG: I Proper Shipping Name: Toxic liquid, organic, n.o.s.

Marine Pollutant: No Severe Marine Pollutant: No Technical Name: Required.

### **Section 15 – Regulatory Information**

**Classification:** Highly Toxic (USA) Very Toxic (EU).

This product contains the following components that are not on the Canadian DSL nor NDSL lists.

Hygromycin B CAS no.: 31282-04-9

**SARA 302 Component:** None of the ingredients are listed.

**SARA 313 Component:** None of the ingredients are listed.

**SARA 311/312 Hazards:** Acute health hazard. Chronic health hazard.

**California Proposition 65:** This product does not contain chemicals listed under Proposition 65.

#### **EU labeling, risk and safety phrases**

**Hazard Symbol:** T+ Very toxic

**R26/27/28:** Very toxic by inhalation, in contact with skin and if swallowed.

**R41:** Risk of serious damage to eyes.

**R42/43:** May cause sensitization by inhalation and skin contact.

**S23:** Do not breathe vapor.

**S26:** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**S28:** After contact with skin, wash immediately with plenty of water.

**S36/37/39:** Wear suitable protective clothing, gloves, and eye/face protection.

**S45:** In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**WGK (Germany):** 3 Self-Classification

### **Section 16 – Other Information**

**Disclaimer:** All InvivoGen products are supplied for research and laboratory use only. Not for drug, household or other uses.

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