

# Material Safety Datasheet (MSDS)



Revised on: 05/28/2026

Regulation (EC) No. 1907/2006 and Regulation (EC) No. 2020/2008  
www.abmgood.com

Applied Biological Materials Inc.  
1-3671 Viking Way,  
Richmond, BC, CANADA  
V6V 2J5

## Section 1 – Identification of Substances/Mixture and of the Company/Undertaking

### 1.1 Product identifier.

Product Name	Hygromycin B
Product Code(s)	G7032
Chemical Name	Hygromycin B
Reach Number	A registration number is not required for this substance

### 1.2 Relevant identified uses of the substance or mixture and uses advised against:

Recommended Use	For research use only. Not for human or diagnostic use.
Uses advised against	No information available

### 1.3 Details of the supplier of the safety data sheet:

Supplier Name	Applied Biological Materials Inc.
Supplier Address	#1-3671 Viking Way Richmond BC V6V 2J5 CA
Supplier Phone Number	Tel: 604-247-2416 Fax: 604-247-2414
Supplier Email	<a href="mailto:technical@abmgood.com">technical@abmgood.com</a>

### 1.4 Emergency telephone number:

Emergency Phone	Use your national or local emergency number. Canada or USA: Emergency Services (dial 911, 24h service)
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## Section 2 – Hazards Identification

### 2.1 Classification of the substance or mixture.

#### Classification of substance according to Regulation (EC) No 1272/2008 (CLP)

Not classified as hazardous according to Regulation (EC) No 1272/2008 (CLP).

### 2.2 Label elements.

#### Label elements according to Regulation (EC) No 1272/2008 (CLP)

Not a hazardous substance or mixture.

### 2.3 Other hazards.

No information available.

## Section 3 – Composition/Information on Ingredients

### 3.1 Substances.

This product is an aqueous solution of Hygromycin B (CAS No. 31282-04-9) at a concentration of 10 mg/ml. No additional hazardous components are present in reportable quantities.

<u>Component</u>	<u>Identification</u>	<u>Concentration</u>
Hygromycin B	CAS No. 31282-04-9	10 mg/ml
Water (or buffer, if applicable)	CAS 7732-18-5	Balance

## Section 4 – First Aid Measures

### Eye Contact

Rinse thoroughly with plenty of water for at least 15 minutes, remove contact lens if applicable; consult a physician.

### Skin Contact

Wash off with soap and plenty of water. Consult a physician.

### Inhalation

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

### Ingestion

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. Do not induce vomiting unless directed to do so by physician.

### Most Important Symptoms and Effects, both Acute and Delayed

No information available.

### Indication of any Immediate Medical Attention and Special Treatment Needed

Treat symptomatically and supportively.

## Section 5 – Fire Fighting Measures

### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray, carbon dioxide, dry chemical powder, or appropriate foam.

### Specific Hazards

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

**Advice for Firefighters** Wear self contained breathing apparatus for firefighting if necessary. Use personal protection equipment.

**Further Information** Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

## Section 6 – Accidental Release Measures

**Personal Precautions, Protective Equipment and Emergency Procedures** Advice for non-emergency personnel: Do not breathe vapors, aerosols. Evacuate the danger area; observe emergency procedures; consult an expert.  
For personal protection see section 8.

**Methods and Materials for Containment and for Cleaning Up** Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material. Dispose of in accordance with local regulations for chemical waste. Clean up affected area.

**Environmental Precautions** See Section 12.

**Reference to Other Sections** For disposal see Section 13.

## Section 7 – Handling and Storage

### 7.1 Precautions for Safe Handling

**Advice on Safe Handling** Ensure adequate ventilation.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

### 7.2 Conditions for Safe Storage, including any Incompatibilities

**Storage Conditions** Keep container tightly closed. Keep at 2-8°C or -20 to -80°C; as indicated by product label.

### 7.3. Specific end use(s)

**Risk Management Methods (RMM)** The information required is contained in this Material Safety Data Sheet.

## Section 8 – Exposure Controls/Personal Protection

### 8.1. Control Parameters

**Exposure Limits** No occupational exposure limits have been established for this substance.

**Derived No Effect Level (DNEL)** No information available

**Predicted No Effect Concentration (PNEC)** No information available

## 8.2. Exposure Controls

**Personal Protective Equipment**

**Eye/face Protection:** Use equipment for eye protection tested and approved under appropriate government standard safety glasses/goggles.

**Skin and Body Protection:** Wear appropriate protective gloves and clothing to prevent skin exposure.

**Respiratory Protection:** Not required; except in case of aerosol formation.

**Environmental Exposure Controls** No information available

## Section 9 – Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

**Physical State** Liquid (aqueous solution)

**Colour** Data not relevant for safe use

**Odour** Data not relevant for safe use

Property	Values	Remarks/Method
<b>Melting Point/Freezing Point (°C)</b>	Data not relevant for safe use	None known
<b>Boiling Point/Boiling Range (°C)</b>	Data not relevant for safe use	None known
<b>Flammability</b>	Data not relevant for safe use	None known
<b>Lower and Upper Exposure Limit</b>	Data not relevant for safe use	None known
<b>Flash Point</b>	Data not relevant for safe use	None known
<b>Auto-ignition Temperature</b>	Data not relevant for safe use	None known
<b>Flammability Limit in Air</b>	Data not relevant for safe use	None known
<b>Decomposition Temperature</b>	Data not relevant for safe use	None known
<b>pH</b>	Data not relevant for safe use	None known
<b>Kinematic Viscosity</b>	Data not relevant for safe use	None known

<b>Solubility</b>	Data not relevant for safe use	None known
<b>Partition coefficient: n-octanol/water</b>	Data not relevant for safe use	None known
<b>Vapour pressure</b>	Data not relevant for safe use	None known
<b>Density / Relative Density</b>	Data not relevant for safe use	None known
<b>Relative Vapour Density</b>	Data not relevant for safe use	None known
<b>Particle Characteristics</b>	Data not relevant for safe use	None known

## 9.2. Other Information

<b>Physical State Softening Point</b>	Data not relevant for safe use
<b>Colour Molecular Weight</b>	Data not relevant for safe use
<b>Odour VOC Content (%)</b>	Data not relevant for safe use
<b>Liquid Density</b>	Data not relevant for safe use
<b>Bulk Density</b>	Data not relevant for safe use
<b>Particle Size</b>	Data not relevant for safe use
<b>Particle Size Distribution</b>	Data not relevant for safe use

## Section 10 – Stability and Reactivity

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

Stable under normal conditions.

#### Explosion Data

Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	None.

### 10.3. Possibility of hazardous reactions

<b>Possibility of Hazardous Reactions</b>	None under normal processing
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur

### 10.4. Conditions to avoid

Excess heat.

### 10.5. Incompatible materials

No information available.

### 10.6. Hazardous decomposition products

None under normal use conditions.

## Section 11 – Toxicological Information

### 11.1. Information on Toxicological Effects

#### Information on Toxicological Effects

**Inhalation** Specific test data for the substance or mixture is not available

**Eye Contact** Specific test data for the substance or mixture is not available

**Skin Contact** Specific test data for the substance or mixture is not available

**Ingestion** Specific test data for the substance or mixture is not available

#### Information on toxicological effects

**Symptoms** No information available

#### Numerical measures of toxicity

**Acute Toxicity** No information available

**Unknown Acute Toxicity** No information available

#### Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

**Skin Corrosion/Irritation** No information available

**Serious Eye Damage/Eye Irritation** No information available

**Respiratory or Skin Sensitization** No information available

**Germ Cell Mutagenicity** No information available

**Carcinogenicity** No information available

**Reproductive Toxicity** No information available

**STOT - Single Exposure** No information available

**STOT - Repeated Exposure** No information available

**Aspiration Hazard** No information available

## Section 12 – Ecological Information

### 12.1. Toxicity

**Ecotoxicity** No ecotoxicological data available for this formulation. Expected to have low environmental persistence due to dilution; avoid release into environment.

### 12.2 Persistence and Degradability

**Persistence and Degradability** No information available

### 12.3 Bioaccumulative Potential

**Bioaccumulation** No information available

### 12.4 Mobility in Soil

**Mobility in Soil** No information available

### 12.5 Results of PBT and vPvB Assessment

**PBT and vPvB Assessment** No information available

### 12.6 Other Adverse Effects

**Other Adverse Effects** No information available

## Section 13 – Disposal Considerations

### 13.1 Waste Treatment Methods

**Waste from Residues/Unused Products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated Packaging** No information available

## Section 14 – Transportation Information

### IMDG

**14.1 UN Number** Not regulated

**14.2 Proper Shipping Name** Not regulated

**14.3 Hazard Class** Not regulated

**14.4 Packing group** Not regulated

<b>14.5 Marine Pollutant</b>	Not applicable
<b>14.6 Special Provisions</b>	None
<b>14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code</b>	Not applicable

**RID**

<b>14.1 UN-No.</b>	Not regulated
<b>14.2 Proper Shipping Name</b>	Not regulated
<b>14.3 Hazard Class</b>	Not regulated
<b>14.4 Packing Group</b>	Not regulated
<b>14.5 Environmental hazard</b>	Not applicable
<b>14.6 Special Provisions</b>	None

**ADR**

<b>14.1 UN-No.</b>	Not regulated
<b>14.2 Proper Shipping Name</b>	Not regulated
<b>14.3 Hazard Class</b>	Not regulated
<b>14.4 Packing Group</b>	Not regulated
<b>14.5 Environmental Hazard</b>	Not applicable
<b>14.6 Special Provisions</b>	None

**IATA**

<b>14.1 UN Number</b>	Not regulated
<b>14.2 Proper Shipping Name</b>	Not regulated
<b>14.3 Hazard Class</b>	Not regulated
<b>Subsidiary Class</b>	Not regulated
<b>14.4 Packing group</b>	Not regulated
<b>14.5 Environmental Hazard</b>	Not applicable
<b>14.6 Special Provisions</b>	None

## Section 15 – Regulatory Information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

#### Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV). This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

#### Persistent Organic Pollutants

Not applicable.

#### Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable.

#### International Inventories

TSCA	Contact supplier for inventory compliance status
DSL/NDSL	Contact supplier for inventory compliance status
EINECS/ELINCS	Contact supplier for inventory compliance status
ENCS	Contact supplier for inventory compliance status
IECSC	Contact supplier for inventory compliance status
KECL	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status
AICS	Contact supplier for inventory compliance status

#### Legend

TSCA	United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL	Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS	European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS	Japan Existing and New Chemical Substances
IECSC	China Inventory of Existing Chemical Substances
KECL	Korean Existing and Evaluated Chemical Substances
PICCS	Philippines Inventory of Chemicals and Chemical Substances
AICS	Australian Inventory of Chemical Substances

## 15.2. Chemical safety assessment

No information available.

## Section 16 – Other Information

### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Legend

SVHC: Substances of Very High Concern for Authorization:

#### Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	-	Skin designation

### Key literature references and sources for data

[www.ChemADVISOR.com/](http://www.ChemADVISOR.com/)

This safety data sheet complies with the requirements of: Regulation (EC) No.1907/2006.

#### Disclaimer

*The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.*

End of Safety Data Sheet