

# Hygromycin B (50 mgmL)

# 1. IDENTIFICATION OF THE PREPARATION/SUBSTANCE AND OF THE COMPANY

Preparation Name: Hygromycin B (50 mgmL) Catalogue number of the product: CC523-0010 Use of the preparation: For laboratory use. Company identification: Genedirex, Inc. Site: http://www.genedirex.com

## 2. HAZARDS IDENTIFICATION

GHS - Classification Signal Word DANGER



Health hazards

Acute oral toxicity	Category 3
Serious eye damage/eye irritation	Category 1
Respiratory sensitization	Category 1

Physical hazards

Not Hazardous

Environmental hazards Hazard Statements Not Hazardous

H301 - Toxic if swallowed

H318 - Causes serious eve damage

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

**Precautionary Statements** 

Prevention

P264 - Wash hands thoroughly after handling

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P270 - Do not eat, drink or smoke when using this product

P284 - In case of inadequate ventilation wear respiratory protection

Response

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
P330 - Rinse mouth
P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician
Storage
Not Applicable

Disposal

P501 - Dispose of contents/ container to an approved waste disposal plant

Other hazards

Not Applicable

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Principle Routes of Exposure

Potential Health Effects	
Eyes	May cause eye irritation with susceptible persons.
Skin	May cause skin irritation in susceptible persons. May cause sensitization by skin contact.
Inhalation	May cause irritation of respiratory tract. May cause sensitization by inhalation.
Ingestion	May be harmful if swallowed.
Specific effects	
Carcinogenic effects	None
Mutagenic effects	None.
Reproductive toxicity	None.
Sensitization	May cause sensitization by inhalation and skin contact.
Target Organ Effects	None under normal use conditions.

#### HMIS

Health	4
Flammability	0
Reactivity	0

#### 3. COMPOSITION/ INFORMATION ON INGREDIENTS

Component	CAS-No	EINECS-No	Weight %
Hygromycin B 31282-04-9 ( 3-7 )	31282-04-9	250-545-5	3-7

We recommend handling all chemicals with caution.

#### 4. FIRST-AID MEASURES

#### Description of first aid measures

Skin contact Rinse skin with water. Immediate medical attention is not required

**Eye contact** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Ingestion** Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.

**Inhalation** Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.

Notes to Physician Treat symptomatically.

#### Most important symptoms and effects, both acute and delayed

H301 - Toxic if swallowed H318 - Causes serious eye damage H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

Indication of any immediate medical attention and special treatment needed

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF INHALED: Remove person to fresh air and keep comfortable for breathing.

## 5. FIRE-FIGHTING MEASURES

Extinguishing media Suitable extinguishing media Unsuitable extinguishing media Special protective equipment for firefighters Special hazards arising from the substance or mixture Protective equipment and precautions for firefighters

Water spray. Carbon dioxide (CO2). Foam. Dry chemical. No information available None known Not known. Standard procedure for chemical fires.

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#### 6. ACCIDENTAL RELEASE MEASURES

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Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation Always wear recommended Personal Protective Equipment Use personal protection equipment See section 8 for more information Environmental precautions No special environmental precautions required. Avoid discharge into drains and waterways whenever possible. Methods and material for containment and cleaning up Soak up with inert absorbent material. Reference to other sections See section 8 for more information.

## 7. HANDLING AND STORAGE

Precautions for safe handling Use personal protective equipment as required. No special handling advices are necessary. Conditions for safe storage, including any incompatibilities Keep in a dry, cool, and well-ventilated place. Keep in properly labeled containers. Specific end use(s) For research use only.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

Chemical Name	OSHA PEL	OSHA PEL (	Ceiling)	ACGIH OEL (	TWA)	ACGIH OEL (STEL)	
Hygromycin B	None	None		None		None	
Chemical Name	Brazil - OEL	- TWAs (LTs)	Brazil -	OEL - Ceilings	Braz	il - OEL - Skin Designat	ions
Hygromycin B	None		None		None	9	

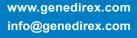
Engineering Measures Ensure adequate ventilation, especially in confined areas. Exposure controls Personal Protective Equipment Respiratory protection In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards. Hand protection Wear suitable gloves. Glove material: Compatible chemical-resistant gloves. Eye protection Tight sealing safety goggles. Wear suitable protective clothing. Skin and Body Protection Hygiene Measures Handle in accordance with good industrial hygiene and safety practice Environmental exposure controls No special environmental precautions required. Avoid discharge into drains and waterways whenever possible.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

information on basic physical and chemical properties					
Appearance	Liquid				
Odor	No data				
Odor Threshold	No data				
Molecular Weight	No data				
Melting point / melting range		°C No data	°F No data		
Boiling point / boiling r	ange	°C No data	°F No data		
Flash point		°C No data	°F No data		
Autoignition Temperature		°C No data	°F No data		
Decomposition tempe	rature	°C No data	°F No data		

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Evaporation rate Flammability (solid, gas) Upper explosion limit	No data No data No data
Lower explosion limit	No data No data
Vapor Pressure	No data
Vapor density	
Relative density	No data
Specific gravity	No data
Solubility	No data
Partition coefficient:	
n-octanol/water	No data
Viscosity	No data
Explosive properties	No data
Oxidizing properties	No data
Other information	No data.

#### **10. STABILITY AND REACTIVITY**

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions

Hazardous reaction has not been reported.

Conditions to avoid No information available.

Incompatible materials No dangerous reaction known under conditions of normal use.

Hazardous decomposition products No data available

#### **11. TOXICOLOGICAL INFORMATION**

Information on toxicological effects

Chemical Name	LD50 (oral,rat/mouse)	LD50 (dermal,rat/rabbit)	LC50 (inhalation, rat/mouse)
Hygromycin B	= 13 mg/kg (Rat)	No data available	=2220µg/m3(Rat)

Principal Routes of Exposure	
Acute toxicity Toxic if swallowed	
Skin corrosion/irritation	Serious eye damage/eye irritation
Serious eye damage/irritation	Causes serious eye damage
Respiratory or skin sensitization	May cause sensitization by inhalation
Specific target organ toxicity	
(STOT) – single exposure	
Data are conclusive but insufficient	ent for classification
Specific target organ toxicity	
(STOT) – repeated exposure	
Data are conclusive but insufficient	ent for classification
Carcinogenicity	Data are conclusive but insufficient for classification
Germ cell mutagenicity	Data are conclusive but insufficient for classification
Reproductive toxicity	Data are conclusive but insufficient for classification
Aspiration hazard	Data are conclusive but insufficient for classification

## **12. ECOLOGICAL INFORMATION**

#### Toxicity

The environmental impact of this product has not been fully investigated.

Chemical	Freshwater	Water Flea	Freshwater Fish	Microtox Data	log Pow
Name	Algae Data	Data	Species Data		
Hygromycin B	No data available				



Persistence and degradability Bioaccumulative potential Results of PBT and vPvB assessment Other adverse effects No information available. No information available. No information available No information available

## **13. DISPOSAL CONSIDERATIONS**

Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional, or national/federal regulations

## **14. TRANSPORT INFORMATION**

IATA / ADR / DOT-US / IMDGClassified as dangerous in the meaning of transport regulationsUN number2810UN proper shipping nameToxic liquid, organic, n.o.s. (Hygromycin B Solution)Transport hazard class(es)6.1Packing groupIIISpecial precautions for userNot ApplicableTransport in bulk according to Annex II of MARPOL 73/78 and the IBC CodeNot Applicable.

## **15. REGULATORY INFORMATION**

Component	US TSCA
Hygromycin B	-
31282-04-9 (3-7%)	

US Federal Regulations SARA 313 This product is not regulated by SARA. Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61) This product does not contain HAPs. US State Regulations California Proposition 65 This product does not contain any Proposition 65 chemicals. WHMIS Hazard Class D1B - Toxic materials D2A - Very toxic materials This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR. National Regulations – Brazil

Chemical Name	CAS No.	Brazil - National Agency	Brazil - National List of
		for Sanitary Surveillance	Carcinogen Agents to
		(ANVISA)	Humans (LINACH)
Hygromycin B	31282-04-9	Not Listed	Not Listed

#### **16. OTHER INFORMATION**

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. GeneDireX, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

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