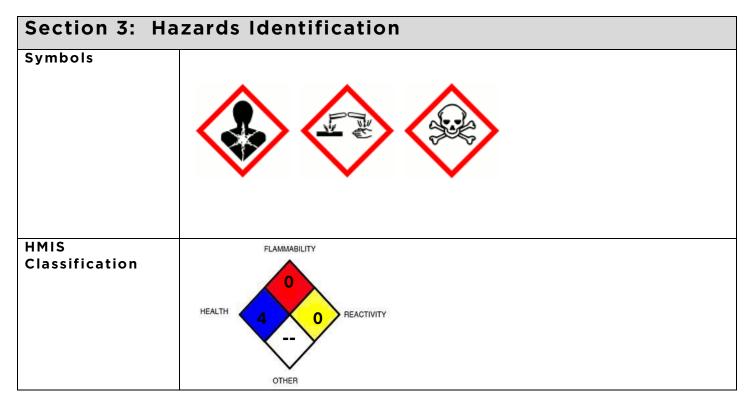


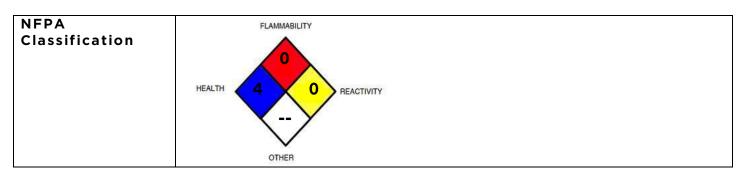
Safety Data Sheet

Section 1: Product & Company Identification		
Product Name:	Hygromycin B in PBS	
Product #:	H-1012-PBS	
Synonyms:	Hygrovetine; Hygrovectine; D-streptamine	
Supplier:	AG Scientific Holdings, LLC 9950 Scripps Lake Drive, Suite 104 San Diego, CA 92131 Tele# + 858-452-9925	
Emergency Tele#:	ChemTel, Tele# in USA 1-800-255-3924, International 1-813-248-0585	

Section 2: Composition / Information on Ingredients			
Component	CAS#	EC#	% Composition
Hygromycin B	31282-04-9	250-545-5	≥90
Phosphate Buffered Saline			







Section 4:	First Aid Measures
General	Avoid contact, wear suitable protective clothing, gloves, and eye/face
Overview:	protection.
Inhalation:	If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not
	breathing give artificial respiration, seek medical attention immediately.
Skin:	Wash immediately with water for 15 minutes. Remove contaminated clothing.
	Wash contaminated clothing before reuse. Seek medical attention
	immediately.
Eyes:	In case of contact, immediately flush eyes or skin with copious amounts of
	water for at least 15 minutes. Remove contacts. Assure adequate flushing of
	the eyes by separating the eyelids with fingers. Seek medical attention
	immediately.
Ingestion:	If swallowed, DO NOT induce vomiting. Wash mouth with water, never give
	anything to an unconscious person. Seek medical attention immediately.
	See section 11 for more detailed information on health effects & symptoms.

SECTION 5:	Fire Fighting Measures
Flammability of	No data available
the product:	
Extinguishing	Dry chemical powder for SMALL FIRES and carbon dioxide, water spray, fog,
Media:	or foam for LARGE FIRES. Do not use water jet.
Hazardous	Carbon oxides, Nitrogen oxides
thermal	
(de)composition	
products:	
Special Fire	Wear self-contained breathing apparatus and protective clothing to prevent
Fighting	contact with skin and eyes. Be sure to use an approved/certified respirator or
Procedures:	equivalent.
Flash Point:	No data available

Section 6: A	ccidental Release Measures
Personal	Use personal protective equipment, splash goggles, gloves. Avoid dust
Precautions:	formation



Environmental	Do not let product enter drains.
Precautions:	
Methods for	Sweep up and shovel into suitable disposal container. Ventilate area and wash
Clean-up:	spill site after material pickup is complete.

SECTION 7:	Handling & Storage
Storage:	Store at 2 - 8°C and protect from light. Keep container tightly closed in a cool, dry, and well-ventilated area.
Handling:	Use only in area provided with appropriate exhaust ventilation. Keep away from heat and source of ignition. Empty containers pose a fire risk. Evaporate residue under fume hood. Ground all equipment containing material. Do not breathe dust.

SECTION 8: Exposure controls / Personal Protection

Respiratory Protection: If exposure limit is reached use ventilation system when handling or wear appropriate government (NIOSH/MSHA) approved respirator. Skin and Body: Chemical-resistant gloves and lab coat/other protective clothing. Avoid prolonged or repeated exposure. Wash thoroughly after handling. Eyes:



	Safety goggles.
Ventilation/Engineering Measures:	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits.
Hygiene:	Handle in accordance with good industrial hygiene and safety practice.
Other:	Contains no substances with occupational exposure limits.

SECTION 9: Physical and Chemical Properties		
Appearance &	Clear and yellowish solution	
Odor:		
Formula	C ₂₀ H ₃₇ N ₃ O ₁₃	
Molecular Wt.	527.5	
Melting Pt.	No data available	
Boiling Pt.	No data available	
Density:	No data available	
Vapor Pressure:	No data available	
Evaporation Rate:	No data available	
Vapor Density:	No data available	
Solubility:	Water	
Flash Point:	No data available	
Autoignition	No data available	
Temp:		

SECTION 10: Stability and Reactivity		
Stability:	Stable under recommended storage conditions.	
Hazardous	Carbon oxides, Nitrogen oxides	
decomposition		
products:		
Materials to Avoid:	Strong oxidizing agents, strong acids and bases	
Conditions to avoid:	Fire, direct light	

SECTION 11: Toxicological Information		
RTECS#:	WK2130000	
ACUTE Toxicity:	VERY TOXIC LD50 Oral = 13 mg/kg (Rat) LD50 Inhalation = 2.22 mg/L (Rat) 4 h LD50 Intraperitoneal = 63 mg/kg (Rat) LD50 Intravenous = 6 mg/kg (Mouse) LD50 Intraperitoneal = 13 mg/kg (Guinea pig) LD100 Oral = 13 mg/kg (Rat)	



	May be fatal if inhaled, swallowed, or absorbed through skin. Strong sensitizer. Causes severe eye irritation, lachrymator. Causes skin irritation. Material is irritating to mucous membranes and upper respiratory tract. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting.
	Exposure can cause conjunctivitis, dermatitis.
	Target organs: mucous membranes, skin, eyes, sense organs and special senses (other olfaction effects)
CHRONIC Toxicity:	N/A
Chronic Exposure: Carcinogen: Mutagen: Teratogen: Reproductive:	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. AGGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, potential human carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as known or anticipated human carcinogen by NTP.
	OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as known or potential human carcinogen by OSHA. EPA: No classification on carcinogenic data is available from EPA

SECTION 12: Ecological Information		
Ecotoxicity:	No data available	
Mobility:	No data available	
Persistence and	No data available	
degradability:		
Bioaccumulative	No data available	
potential:		
Other adverse	No data available	
effects:		
Corrosivity	No data available	
Characteristic:		
General Notes:	To the best of our knowledge, the chemical, physical and toxicological	
	properties have not been thoroughly investigated.	

SECTION 13: Disposal Considerations



Residue Waste or Unused product:	Only professional staff trained in such techniques must undertake waste disposal. Observe all appropriate federal, provincial, state, and local regulations.
Contaminated Packaging:	Do not reuse containers. Dispose of as unused product.

SECTION 14: Transportation Information		
UN ID#:	UN2811	
ADR / RID (LAND):	Toxic solid, organic, n.o.s. (Hygromycin B)	
	Class 6.1 Packing II	
DOT regulations:	Toxic solid, organic, n.o.s. (Hygromycin B)	
	Class 6.1 Packing II	
IMDG/IMO (SEA):	Toxic solid, organic, n.o.s. (Hygromycin B)	
	Class 6.1 Packing II	
IATA/DGR (AIR):	Toxic solid, organic, n.o.s. (Hygromycin B)	
	Class 6.1 Packing II	
Special Provisions:	N/A	

SECTION 15: Regulatory Information		
Health Phrases:	H300 Fatal if swallowed.	
	H310 Fatal in contact with skin.	
	H315 Causes skin irritation	
	H318 Causes serious eye damage	
	H330 Fatal if inhaled	
	H335 May cause respiratory irritation	
Risk Phrases:	P260 Do not breathe dust/fume/gas/mist/vapors/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.	
	P271 Use only outdoors or in a well-ventilated area.	
	P280 Wear protective gloves/protective clothing/eye protection/face	
	protection.	
	P284 Wear respiratory protection	
Safety Phrases:	P301 + P310 IF SWALLOWED: Call a POISON CENTER or doctor/	
	physician.	
	P302 + P352 IF ON SKIN: Wash with plenty of soap and water.	
	P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a	
	position comfortable for breathing.	
	P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several	
	minutes. Remove contact lenses, if present and easy to do. Continue	
	rinsing.	
	P310 Immediately call a POISON CENTER or doctor/ physician	
	P321 Specific treatment (see. on this label).	
	P330 Rinse mouth.	
	P332 + P313 If skin irritation occurs: Get medical advice/attention.	



	P362 + P364 Take off contaminated clothing and wash 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 plant
EU Regulations:	R26/27/28, R37/38, R41, S23, S26, S28, S36/37/39
US Regulations:	TSCA: Not listed
	California Proposition 65: No products were found
	New Jersey State Right to Know: Listed
	Pennsylvania State Right to Know: Listed
U.S. Federal	SARA 302/304 emergency planning and notification: No products were
Regulations:	found.
	SARA 311/312 MSDS distribution-chemical inventory-hazard
	identification: Acute Health Hazard, Chronic Health Hazard
	SARA 313 toxic chemicals notification and release reporting: No products
	were found.
	Clean Water Act (CWA) 307: No products were found.
	Clean Water Act (CWA) 311: No products were found.
	Clean Air Act (CAA) 112 accidental release prevention: No products were found.
	Clean Air Act (CAA) 112 regulated flammable substances: No products were found.
	Clean Air Act (CAA) 112 regulated toxic substances: No products were found.
	OSHA: Acute toxicity, oral (Cat. 2); Acute toxicity, inhalation (Cat. 1);
	Acute toxicity, dermal (Cat. 2); Serious eye damage (Cat. 1); Respiratory sensitization (Cat. 1)
WHMIS (Canada):	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.

SECTION 16: Other Information

LIABILITY STATEMENT: The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. AG Scientific shall not be held liable for any damages resulting from handling or from contact with the above product. AG Scientific products are for research purposes only. Not for human use or consumption.

Revised 5/9/2025