



Revision Date 17-Feb-2016

**Revision Number** 2

# **1. PRODUCT AND COMPANY IDENTIFICATION**

Product Identifier	
Product Name	Hygromycin B, 50 mg/mL Solution
Other means of identification	
Product Code(s)	K547
UN/ID no.	2810
Synonyms	No information available
Recommended use of the chemica	al and restrictions on use
Recommended Use	For Further Manufacturing Use Only.
Uses advised against	Not for Human or Animal Drug Use
Details of the supplier of the safet	y data sheet
Company Address	Manufacturer Address
VWR International, LLC	VWR Chemicals, LLC
Radnor Corporate Center	28600 Fountain Parkway
100 Matsonford Road	Solon, Ohio 44139
Radnor, PA 19087-8660	
Company Phone Number	1-800-448-4442
E-mail Address	info@amresco-inc.com
Emergency Telephone Number	

Emergency Telephone Number Emergency Telephone Number

Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

#### **Classification**

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute Toxicity - Oral	Category 3
Acute Toxicity - Dermal	Category 3
Acute toxicity - Inhalation (Vapors)	Category 3
Serious Eye Damage/Eye Irritation	Category 1
Respiratory Sensitization	Category 1

#### Label elements

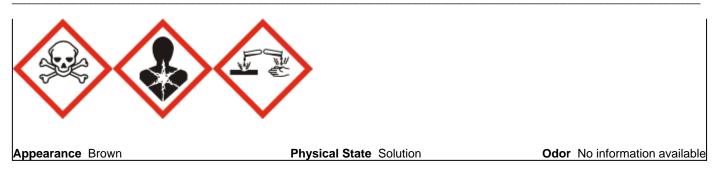
**Emergency Overview** 

# Danger

#### Hazard statements

- H301 Toxic if swallowed
- H311 Toxic in contact with skin
- H318 Causes serious eye damage
- H331 Toxic if inhaled
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

# Product Code(s)K547 - Hygromycin B, 50 mg/mL Solution



#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area In case of inadequate ventilation wear respiratory protection Wear protective gloves/protective clothing/eye protection/face protection

#### **Precautionary Statements - Response**

Specific treatment (see .? on this label) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor IF ON SKIN: Wash with plenty of water and soap Call a POISON CENTER or doctor if you feel unwell Take off immediately all contaminated clothing and wash it before reuse IF INHALED: Remove person to fresh air and keep comfortable for breathing Call a POISON CENTER or doctor IF SWALLOWED: Immediately call a POISON CENTER or doctor Rinse mouth

#### Precautionary Statements - Storage

Store locked up Store in a well-ventilated place. Keep container tightly closed

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC) Not regulated Other Information

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS-No	EC No.	Weight %	Trade Secret
Hygromycin B	31282-04-9	250-545-5	5-10	Not applicable
Sodium phosphate dibasic	7558-79-4	231-448-7	0-0.5	Not applicable

# 4. FIRST AID MEASURES

#### First Aid Measures

Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin Contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.

Inhalation Move to fresh air. If not breathing, give artificial respiration.

Ingestion Never give anything by mouth to an unconscious person. Rinse mouth.

Most important symptoms and effects, both acute and delayed

Most Important Symptoms/Effects No information available.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

Dry chemical, CO2, appropriate foam.

Unsuitable Extinguishing Media No information available.

#### Specific Hazards Arising from the Chemical

No information available.

Hazardous Combustion Carbon oxides. Nitrogen oxides (NOx). Products

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

#### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

# Personal precautions, protective equipment and emergency proceduresPersonal protectionEnsure adequate ventilation, especially in confined areas.Environmental PrecautionsEnvironmental PrecautionsEnvironmental PrecautionsSee Section 12 for additional Ecological information.Methods and material for containmentand cleaning upMethods for ContainmentPrevent further leakage or spillage if safe to do so.Methods for Cleaning UpAbsorb on sand or vermiculite and place in closed containers for disposal. Pick up and transfer to properly labeled containers. Ventilate area and wash spill site after material pickup is complete.

## 7. HANDLING AND STORAGE

#### Precautions for Safe Handling

Handling

Handle in accordance with good industrial hygiene and safety practice. Protect from light and moisture.

#### Conditions for safe storage, including any incompatibilities

#### Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from light.

Incompatible Products

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

None known based on information supplied.

#### Control parameters

#### Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hygromycin B 31282-04-9	-	-	-
Sodium phosphate dibasic 7558-79-4	-	-	-

## Appropriate engineering controls

	-
Engineering Measures	Showers
	Eyewash stations
	Ventilation systems.

#### Individual protection measures, such as personal protective equipment

Eye/Face Protection	Avoid contact with eyes. Safety glasses with side-shields.	
Skin and Body Protection	Wear protective gloves/clothing.	
Respiratory Protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.	
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.	

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical State Appearance Color	Solution Brown No information available	Odor Odor Threshold	No information available No information available
Property	Values	Remarks • Method	
pH	No information available		
Melting point/freezing point			
Boiling Point/Range	No information available		
Flash Point (High in °C)	No information available		
Evaporation Rate	No information available		
Flammability (solid, gas)	No information available		
Flammability Limit in Air			
Upper flammability limit:	No information available		
Lower flammability limit:	No information available		
Vapor pressure	No information available		
Vapor Density	No information available		
Specific Gravity	No information available		
Water Solubility	No information available		
Solubility in other solvents	No information available		
Partition coefficient	No information available		
Autoignition Temperature	No information available		
Decomposition Temperature	No information available		
Kinematic viscosity	No information available		

Dynamic viscosity Explosive Properties Oxidizing Properties Other Information	No information availabl No information availabl No information availabl
Softening Point Molecular Weight VOC Content Density Bulk Density	No information availabl No information availabl No information availabl No information availabl No information availabl

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# **10. STABILITY AND REACTIVITY**

Reactivity No data available

**Chemical Stability** Stable under recommended storage conditions. Possibility of Hazardous Reactions None under normal processing. **Conditions to Avoid** Protect from light. Incompatible Materials None known based on information supplied. Hazardous Decomposition Products Carbon oxides. Nitrogen oxides (NOx).

# **11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

Product Information			
Inhalation	Toxic by inhalation. May ca inhaled.	use allergy or asthma symptom	s or breathing difficulties if
Eye Contact	May cause irreversible dam	hage to eyes.	
Skin Contact	Toxic in contact with skin.		
Ingestion	Toxic if swallowed.		

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hygromycin B 31282-04-9	= 13 mg/kg (Rat)	-	= 2220 µg/m³(Rat)4 h
Sodium phosphate dibasic 7558-79-4	= 17 g/kg (Rat)	-	-

#### Information on toxicological effects

Symptoms

No information available.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization Mutagenic Effects Carcinogenicity	No information available. No information available. No information available.			
Chemical Name	ACGIH IARC NTP OSHA			OSHA
Hygromycin B 31282-04-9	-	-	-	-

# Product Code(s)K547 - Hygromycin B, 50 mg/mL Solution

Sodium phosphate dibasic 7558-79-4	-	-	-	-
Reproductive Toxicity	No information	on available.		
STOT - single exposure	No information	No information available.		
STOT - repeated exposur	e No information	No information available.		
Chronic Toxicity	Suspected te	Suspected teratogen. Possible mutagen.		
Target Organ Effects	Eyes, Ears, I	Eyes, Ears, Reproductive system.		
Aspiration hazard	No information	on available.		

Numerical measures of toxicity - Product Information

# The following values are calculated based on chapter 3.1 of the GHS document .

## **12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

6.13% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Toxicity to Fish	Crustacea
Hygromycin B 31282-04-9	-	-	-
Sodium phosphate dibasic 7558-79-4	-	-	-

#### Persistence and Degradability

No information available.

#### **Bioaccumulation/Accumulation**

No information available.

Chemical Name	Partition coefficient
Hygromycin B 31282-04-9	-
Sodium phosphate dibasic 7558-79-4	-

Other Adverse Effects

No information available

# **13. DISPOSAL CONSIDERATIONS**

Waste treatment methods

Waste Disposal Method

Dispose of material in accordance with all federal, state, and local regulations.

**Contaminated Packaging** 

Do not re-use empty containers.

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Hygromycin B 31282-04-9	-	-	-	-
Sodium phosphate dibasic 7558-79-4	-	-	-	-

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Hygromycin B 31282-04-9	-	-	-	-
Sodium phosphate dibasic 7558-79-4	-	-	-	-

Chemical Name	California Hazardous Waste Status
Hygromycin B	-
31282-04-9	
Sodium phosphate dibasic	-

7558-79-4

# **14. TRANSPORT INFORMATION**

<u>DOT</u> UN/ID no. Proper shipping name Hazard Class Packing Group	2810 TOXIC, LIQUIDS, ORGANIC, N.O.S. (CONTAINS HYGROMYCIN B) 6.1 II
IATA UN/ID no. Proper shipping name Hazard Class Packing Group	2810 TOXIC, LIQUIDS, ORGANIC, N.O.S. (CONTAINS HYGROMYCIN B) 6.1 II

# **15. REGULATORY INFORMATION**

International Inventories	
TSCA	Does not comply
DSL/NDSL	Does not comply
EINECS/ELINCS	Complies
ENCS	Does not Comply
IECSC	Complies
KECL	Does not Comply
PICCS	Does not Comply
AICS	Does not Comply

#### Legend:

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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 Commercial Chemical Substances/EU 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

#### U.S. Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Component	SARA 313 - Threshold Values %
Hygromycin B	-
31282-04-9 ( 5-10 )	
Sodium phosphate dibasic	-
7558-79-4 ( 0-0.5 )	

# SARA 311/312 Hazard Categories

Yes
Yes
No
No
No

#### Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Hygromycin B 31282-04-9	-	-	-	-
Sodium phosphate dibasic 7558-79-4	5000 lb	-	-	Х

# CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Hygromycin B 31282-04-9	-	-	-
Sodium phosphate dibasic 7558-79-4	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ

# U.S. State Regulations

## California Proposition 65

This product does not contain any Proposition 65 chemicals.

Chemical Name	California Prop. 65	
Hygromycin B - 31282-04-9	-	
Sodium phosphate dibasic - 7558-79-4	-	

## U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Hygromycin B 31282-04-9	-	-	-
Sodium phosphate dibasic 7558-79-4	Х	X	Х

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not regulated

# **16. OTHER INFORMATION**

Issuing Date Revision Date Revision Note No information available 08-Jun-2010 17-Feb-2016

#### **Disclaimer**

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. VWR International and its Affiliates shall not be held liable for any damage resulting from handling.

End of Safety Data Sheet