

Safety Data Sheet

Hygromycin B Solution (50mg/ml)

According to Regulation (EC) No. 1907/2006 (REACH)

Revision Date: 04.10.2017

Print Date: 04.10.2017

SECTION 1 Identification of the Substance/Mixture and of the Company/ Undertaking

Product identifiers

Product name: Hygromycin B Solution (50mg/ml)

Cat. No.: HYG-H

Relevant identified uses of the substance or mixture and uses advised against

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

Details of the supplier of the safety data sheet

Company: Capricorn Scientific GmbH

Auf der Lette 13 A

35085 Ebsdorfergrund

Germany

Phone: +49 6424 94464 0

E-Mail: info@capricorn-scientific.com

Emergency telephone number

Emergency Phone: During Office Time +49 6424 94464 0.

SECTION 2 Hazards Identification

The product is classified and labelled in accordance with Directive 1999/45/EC.

GHS-Classification

Signal word: Danger



Health Hazard

Acute oral toxicity

Category 3

Acute dermal toxicity

Category 3

Serious eye damage/eye irritation

Category 1

Physical Hazard

Not hazardous.

Hazard statements

H318 - Causes serious eye damage

H301 - Toxic if swallowed

H311 - Toxic in contact with skin

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

Precautionary statements

P264 - Wash hands thoroughly after handling
 P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTRE 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
 P261 - Avoid breathing dust/fume/gas/mist/vapours/spray
 P285 - In case of inadequate ventilation wear respiratory protection
 P304 + P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing

European Union



EU Specific Hazard Statements

R-phrases(s)

R41 - Risk of serious damage to eyes
 R42 - May cause sensitization by inhalation
 R24/25 - Toxic in contact with skin and if swallowed

S-phrases(s)

S13 - Keep away from food, drink and animal feedingstuffs
 S23 - Do not breathe gas/fumes/vapour/spray
 S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
 S39 - Wear eye/face protection
 S46 - If swallowed, seek medical advice immediately and show this container or label
 S63 - In case of accident by inhalation: remove casualty to fresh air and keep at rest
 S36/37 - Wear suitable protective clothing and glove

Principle Routes of Exposure/Potential Health effects

Eyes Risk of serious damage to eyes.
 Skin Irritation to skin..
 Inhalation May be harmful by inhalation
 Ingestion May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Specific effects

Carcinogenic effects Not applicable.

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Mutagenic effects	Not applicable.
Reproductive toxicity	Not applicable.
Sensitisation	R42 - May cause sensitization by inhalation
Target Organ Effects	No known effects under normal use conditions.

SECTION 3 Composition/Information on Ingredients

Chemical Name	CAS #	EINECS #	Weight percent
Hygromycin B	31282-04-9	250-545-5	1 - 5

We recommend handling all chemicals with caution.

SECTION 4 First Aid Measures

Skin contact	Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing before re-use. Immediate medical attention is required.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
Ingestion	Call a physician or Poison Control Centre immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.
Inhalation	Move to fresh air. If not breathing, give artificial respiration. Call a physician or Poison Control Centre immediately.
Notes to physician	Treat symptomatically.

SECTION 5 Firefighting Measures

Suitable extinguishing media

Water spray. Carbon dioxide (CO₂). Foam. Dry chemical.

Special protective equipment for firefighters

Wear self-contained breathing apparatus and protective suit.

SECTION 6 Accidental Release Measures

Personal precautions	Use personal protective equipment.
Methods for cleaning up	Soak up with inert absorbent material.
Environmental precautions	Prevent further leakage or spillage if safe to do so.

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SECTION 7 Handling and Storage

Handling

S24/25 - Avoid contact with skin and eyes

Storage

Keep in a dry, cool and well-ventilated place. Keep in properly labelled containers. Store at 2 - 8°C.

SECTION 8 Exposure Controls/Personal Protection

Exposure limits

We are not aware of any national exposure limit.

Engineering measures

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

Respiratory protection	In case of insufficient ventilation wear suitable respiratory equipment.
Hand protection	Impervious gloves.
Eye protection	Safety glasses with side-shields.
Skin and body protection	Lightweight protective clothing.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls

Prevent product from entering drains. . Do not allow material to contaminate ground water system.

SECTION 9 Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state at 20 °C:	Liquid
Color:	Colorless
Odor:	Odorless
pH:	No information available
Water solubility:	Soluble

Important Health Safety and Environmental Information

Boiling point/range	°C	No data available.
Melting point/range	°C	No data available.
Flash point	°C	No data available.
Autoignition temperature	°C	No data available.
Oxidising properties	°C	No data available.

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SECTION 10 Stability and Reactivity

Stability	Stable under normal conditions.
Materials to avoid	No information available.
Hazardous decomposition	No information available.
Polymerisation	None under normal processing.

SECTION 11 Toxicological Information

Acute toxicity

Chemical Name	LD50 (oral, rat/mouse)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat/mouse)
Blasticidin S	13 mg/kg Oral (Rat)	No data available	2220 µg/m ³ (Rat)

Principle Routes of Exposure/Potential Health effects

Eyes	Risk of serious damage to eyes.
Skin	Irritation to skin.
Inhalation	May be harmful by inhalation.
Ingestion	May be harmful if swallowed Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.
Carcinogenic effects	No information available.
Mutagenic effects	No information available.
Reproductive toxicity	No information available.
Sensitisation	R42 - May cause sensitization by inhalation

SECTION 12 Ecological Information

Ecotoxicity effects	No information available.
Mobility	No information available.
Biodegradation	No information available.
Bioaccumulation	No information available.

SECTION 13 Disposal Considerations

Dispose of in accordance with local regulations.

SECTION 14 Transport Information

IATA

Proper shipping name	Toxic liquid, organic, n.o.s.
Hazard class	6.1
Subsidiary Class	None.

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Packing group III
UN-No 2810

SECTION 15 Regulatory Information

International Inventories

Chemical Name	EINECS	ELINCS	ENCS	PICCS	AICS	KECL	DSL	NDSL
Hygromycin B	Listed	-	-	-	-	-	-	-

SECTION 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. 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.