

1. SUBSTANCE IDENTITY AND COMPANY CONTACT INFORMATION

Product Name	Hygromycin B, 50mg/ml in PBS Buffer, 20ml/bottle, Sterile
Product Number	H011
Procedure	Hygromycin B solution from <i>Streptomyces hygroscopicus</i> .
Brand	Hygromycin B EvoPure™
Company	715 W. Orchard Drive Suite 3 Bellingham, WA 98225
EMERGENCY PHONE (US only)	+1-800-535-5053
INF	+86-21-5206 9530

2. CHEMICAL COMPOSITION AND DATA ON COMPONENTS

CAS NO.	31282-04-9
Formula	C ₂₀ H ₃₇ N ₃ O ₁₃
Molecular Weight	527.52

3. HAZARD IDENTIFICATION

Label precautionary statements	According to Regulation (EC) No1272/2008 Acute toxicity, Oral (Category 3) Acute toxicity, Inhalation (Category 2) Acute toxicity, Dermal (Category 3) Serious eye damage (Category 1) Respiratory sensitization (Category 1) According to European Directive 67/548/EEC as amended. Very toxic by inhalation, in contact with skin and if swallowed. May cause sensitization by inhalation and skin contact. Risk of serious damage to eyes.
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Target organ(s) Ears and eyes.

In case of accident or if you feel unwell, seek medical advice immediately (show label when possible).
Wear suitable protective clothing, gloves and eye/face protection.

4. FIRST-AID MEASURES

In case of eye and skin contact

In case of contact, immediately flush eyes or skin with copious amounts of water at least 15 minutes while removing contaminated clothing and shoes. Assure adequate flushing of eyes by separating eyelids with fingers.

If inhaled

Remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

If swallowed

Wash out mouth with water (provided person is conscious). Call a physician immediately.

Others

Wash all contaminated clothing before reuse.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

Unusual fire and explosion hazards

Emits toxic fumes under fire conditions.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.
Evacuate personnel to safe areas.

Methods for cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Normal measures for preventive fire protection.

Storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage temperature: 2 - 8 °C

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Eye protection

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	liquid
pH	N/A
Melting point	N/A
Solubility	N/A

10. STABILITY AND REACTIVITY

Storage stability

Stable under recommended storage conditions.

Materials to avoid

Avoid strong oxidizing agents.

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NO_x).

Hazardous polymerization products

Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Potential Health Effects

Inhalation May be fatal if inhaled. May cause respiratory tract irritation.

Skin Toxic if absorbed through skin. May cause skin irritation.

Eyes Causes eye burns.

Swallow Toxic if swallowed.

Signs and Symptoms of Exposure

Loss of hearing, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Conjunctivitis., Dermatitis, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Toxicity data:

No data available.

Chronic exposure

No data available.

Only selected registry of toxic effects of chemical substances (RTECS) data is presented here. See actual entry in trees for complete information.

12. ECOLOGICAL INFORMATION

Data not yet available.

13. DISPOSAL CONSIDERATIONS

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION**ADR/RID**

UN-Number: 2810 Class: 6.1 Packing group: I
Proper shipping name: TOXIC LIQUID, ORGANIC, N.O.S.
(Hygromycin B)

IMDG

UN-Number: 2810 Class: 6.1 Packing group: I
EMS-No: F-A, S-A
Proper shipping name: TOXIC LIQUID, ORGANIC, N.O.S.
(Hygromycin B)
Marine pollutant: No

IATA

UN-Number: 2810 Class: 6.1 Packing group: I
Proper shipping name: Toxic liquid, organic, n.o.s. (Hygromycin B)
IATA Passenger: Not permitted for transport

15. REGULATORY INFORMATION

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

16. OTHER INFORMATION**Further 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.