

HYGROGOLD™ Safety Data Sheet

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1. Name of substance/preparation and company	
1.1 Commercial product: HygroGold™ Cat.-No.: ant-hg-1, ant-hg-5 1.2 Company: CAYLA SAS/InvivoGen France 5 rue Jean Rodier BP 4437 31 405 Toulouse Cedex 04 France Tel. ++33 (0)5 62 71 69 39 Information obtainable from: ++33 (0)5 62 71 9 39 This product is for laboratory use only and is not intended for human or animal diagnostics, therapeutic or clinical uses	
2. Composition/Information on constituents	
The following list shows components of this product classified as hazardous based on physical properties and health effects Hygromycin B CAS-No.: 31282.04-9 Molecular formula: C ₂₀ H ₃₇ N ₃ O ₁₃ HCL Molecular weight: 563.5 .	
3. Hazards identification	
Warnings: The usual precautions taken when handling chemicals should be observed. Notes: Substance slightly hazardous to water and ground water Danger, irritant! Highly toxic if swallowed. May cause organ failure or death even at low dose Highly toxic if absorbed Highly toxic by inhalation Potential health effects: - Eyes: Can cause severe irritation. Eye contact may cause result in corneal injury - Skin: Can cause moderate skin irritation, dermatitis. Not likely to cause permanent damage. - Inhalation: Can cause moderate respiratory irritation, nausea and headache Highly toxic (powder), can cause systemic damage, respiratory failure possible at high doses. - Ingestion: Irritating to mouth, throat and stomach. Highly toxic if swallowed. May cause target organ failure and/or death even at low doses.	
4. First aid measures	
First aid: Eye contact: Wash immediately eyes with plenty of water for at least 15 minutes. Get medical attention; Skin contact: Wash off with water and soap, remove contaminated clothes. Get medical attention Ingestion: corrosive, do not induce vomiting! Drink one glass water and one glass of milk if possible. Seek medical advice immediately. Inhalation: Remove victim to fresh air, if malaise develops go to a physician Instructions for symptomatic treatment by a physician: Treat symptomatically	
5. Fire-fighting masures	
Flash point Degree : Not available Upper flammable limit %: Not available Lower flammable limit %: Not available Autoignition temperature degree: Not available Extinguishing media: Use alcohol or resistant foam, carbon dioxide or dry chemical fighting fire. Hazardous combustion products: carbon dioxide, carbon monoxide, dense smoke	
6. Accidental release measures	
Refer to section 8 for personal protection equipment recommendations. After spillage: Sweep up spilled substance carefully. Absorbent material: suitable absorbent material like granulated clay. Damage limitation: Special measures to limit damage are to be taken.	
7. Handling and storage	

7.1 Handling: highly toxic or corrosive material. Avoid contacting and breathing the material.
Use only in a ventilated area.
7.2 Storage: Store in a cool place at ambient pressure, and in suitable storage area.

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8. Exposure controls- personal protection

Engineering controls : local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.

Respiratory protection: wear protective respiratory mask

Eye protection: use protective glasses

Hand protection: wear protective compatible resistant gloves

Hygiene: Wash hands before breaks and at the end of the work.

9. Physical and chemical properties

Physical state: liquid

Colour: brown

Odour: none

PH: 7.5+/-0.5

Boiling point: 100.09°C

Melting point: -4°C

Solubility in water >500g/l

Density : 1.16

Viscosity: not determined

10. Stability and reactivity

Stability : stable under normal conditions

Conditions to avoid : strong oxidising agents

Reactions: Not known when used appropriately.

Hazardous decomposition products : Carbon monoxide, Carbon dioxide. Nitrogen oxides

Hazardous polymerisation: will not occur

11. Toxicological information

LD50 oral/ingestion not known

LD50 dermal not known

LD50 inhalation/respiratory 2.2mg/M3/4h

Toxicological information: Intoxication has so far not become known.

12. Ecological information

Hazards: Substance can slightly hazardous to water and ground water even if no ecological information is available

13. Disposal considerations

Regulatory information: not applicable

Waste disposal route: Can be sent to an incineration plant in accordance with all state, federal, local regulations.

14. Transport information

UN number UN2810

ICAO/IATA: 6.1

Proper Shipping Name: Toxic liquid, organic, n.o.s. (Hygromycin B)

Notes: product subject to current regulations for transportation of hazardous goods (GGVS/ADR,

GGVE/RID, IMDG, IATA/ICAO).

Hazard class 6.1

15. Regulatory Information

Notes:	This product must be labelled in accordance with EEC regulation on product class 6.1.
R26/27/28	Very toxic by inhalation, in contact with skin and if swallowed
R48	Danger of serious damage to health by prolonged exposure
S24/26	Avoid contact with skin and eyes
S36/37/39	Wear protective clothing, gloves and eyes protection

16. Other information

The information herein is believed to be correct as of the date hereof, but is provided without warranty of any kind. The recipient of our product is responsible for ensuring that, where applicable, existing laws and guidelines are observed. Since CAYLA SAS/ InvivoGen cannot control the actual methods, volumes or conditions of use, the company should not be liable for any damage resulting from the handling or from contact with the product as described herein.