



# Celltechgen

For Research Only

## SAFETY DATA SHEET

### Luminol/Enhancer Solutions

CTG-AB0001-A	The Celltechgen™ Hygromycin B,1g	ISSUE DATE July 9, 2019
CTG-AB0001-B	The Celltechgen™ Hygromycin B,5g	ISSUE DATE July 9, 2019

#### Section 1. Identification

**GHS product identifier** : Hygromycin B

**Product code** : CTG-AB0002

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

**Identified uses** Reagent for development and research. For additional information on uses please refer to "www.celltechgen.com"

#### Supplier's details

Celltechgen LLC

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Email: info@celltechgen.com

**Emergency telephone:** 1-877-994-4100

#### Section 2. Hazards identification.

##### Classification of the substance or mixture

This mixture is not classified as dangerous according to European Union legislation.

##### Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

##### Other hazards

None known.

#### Section 3. Composition/information on ingredients

**Chemical nature** Aqueous solution of inorganic and organic compounds.

**Substance** Not applicable

**Mixture**

**Remarks** No disclosure requirement according to Regulation (EC) No.1907/2006.

#### Section 4. First aid measures

##### Description of first aid measures

**After inhalation:** fresh air.

**In case of skin contact:** Take off immediately all contaminated clothing. Rinse skin with water/ shower.

**After eye contact:** rinse out with plenty of water. Remove contact lenses.

**After swallowing:** make victim drink water (two glasses at most). Consult doctor if feeling unwell.

**Most important symptoms and effects, both acute and delayed**

Allergic reactions

**Indication of any immediate medical attention and special treatment needed**

No information available.

## **Section 5. Fire-fighting measures**

**Extinguishing media**

*Suitable extinguishing media*

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

*Unsuitable extinguishing media*

For this substance/mixture no limitations of extinguishing agents are given.

**Special hazards arising from the substance or mixture**

Not combustible.

Ambient fire may liberate hazardous vapours.

**Advice for firefighters**

Special protective equipment for firefighters

In the event of fire, wear self-contained breathing apparatus.

**Further information**

Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

## **Section 6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**

<b>Advice for non-emergency personnel:</b>	Do not breathe vapours, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.
<b>Advice for emergency responders:</b>	Protective equipment see section 8.
<b>Environmental precautions</b>	Do not let product enter drains.
<b>Methods and materials for containment and cleaning up</b>	Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.
<b>Reference to other sections</b>	Indications about waste treatment see section 13.

## **Section 7. Handling and storage**

**Precautions for safe handling**

*Advice on safe handling*

Observe label precautions.

*Hygiene measures*

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

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

Tightly closed.

Recommended storage temperature see product label.

### **Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

## **Section 8. Exposure controls/personal protection**

### **Exposure control**

#### **Engineering measure**

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. See section 7.1

#### **Individual protection measures**

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

**Eye/face protection:** Safety glasses

**Hand protection:full contact** Glove material: Nitrile rubber  
Glove thickness: 0.2mm  
Break through time: > 480 min

**Hand protection:splash contact** Glove material: Nitrile rubber  
Glove thickness: 0.2 mm  
Break through time: > 480 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 743Dermatril® L(full contact), KCL 743 Dermatril® L (splash contact). This recommendation applies only to the product stated in the safety data sheet(<>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves

Other protective equipment protective clothing

#### **Respiratory protection**

required when vapours/aerosols are generated.

Recommended Filter type: filter ABEK

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

#### **Environmental exposure controls**

Do not let product enter drains

## **Section 9. Physical and chemical properties**

### **Information on basic physical and chemical properties**

Form	Liquid
Colour	Clear
Odour	No strong odour known
Odour Threshold	No information available.
pH	No information available.
Melting point	No information available.

Boiling point	No information available.
Flash point	Not applicable
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Vapour pressure	No information available.
Relative vapour density	No information available.
Density	No information available.
Water solubility	At 20 °C soluble
Partition coefficient: n-octanol/water	No information available.
Auto-ignition temperature	No information available.
Decomposition temperature	No information available.
Viscosity, dynamic	No information available.
Explosive properties	No information available.
Oxidizing properties	none

## Section 10. Stability and reactivity

### Reactivity

See section 10.3.

### Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

### Possibility of hazardous reactions

Violent reactions possible with:

The generally known reaction partners of water.

### Conditions to avoid

no information available

### Incompatible materials

no information available

### Hazardous decomposition products

In the event of fire:See section5.

## Section 11. Toxicological information

### Information on toxicological effects

Acute oral toxicity	This information is not available.
Acute inhalation toxicity	This information is not available.
Acute dermal toxicity	This information is not available.
Skin irritation	This information is not available.
Eye irritation	This information is not available.
Sensitisation	Mixture may cause an allergic skin reaction. May cause an allergic skin reaction.
Germ cell mutagenicity	This information is not available.
Carcinogenicity	This information is not available.

<b>Reproductive toxicity</b>	This information is not available.
<b>Teratogenicity</b>	This information is not available.
<b>Specific target organ toxicity - single exposure</b>	This information is not available.
<b>Specific target organ toxicity - repeated exposure</b>	This information is not available.
<b>Aspiration hazard</b>	This information is not available.

#### **Further information**

Handle in accordance with good industrial hygiene and safety practice.

Other dangerous properties can not be excluded.

Components

O-2-amino-2,7-dideoxy-D-glycero- $\alpha$ -D-glucopyranosyl-(1 $\rightarrow$ 4)-O-[3-deoxy-4-C-methyl-3-(methylamino)- $\beta$ -L-arabinopyranosyl-(1 $\rightarrow$ 6)]-2-deoxy-D-streptamine sulfate (1:2) (salt)

Acute oral toxicity

LD50 Rat: > 5.000 mg/kg

(RTECS) (in analogy to similar products)

## **Section 12. Ecological information**

### **Toxicity**

No information available

### **Persistence and degradability**

No information available

### **Bioaccumulative potential**

No information is available

### **Mobility in soil**

No information available.

### **Results of PBT and vPvB assessment**

Substance(s) in the mixture do(es) not meet the criteria for PBT or vPvB according to Regulation(EC) No 1907/2006, Annex XIII, or a PBT/vPvB assessment was not conducted.

### **Other adverse effects**

Discharge into the environment must be avoided.

## **Section 13. Disposal considerations**

Please follow the regulations of different countries

## **Section 14. Transport information**

<b>Land transport (ADR/RID) 14.1 - 14.6</b>	Not classified as dangerous in the meaning of transport regulations.
<b>Inland waterway transport (ADN)</b>	Not relevant
<b>Air transport (IATA) 14.1 - 14.6</b>	Not classified as dangerous in the meaning of transport regulations.
<b>Sea transport (IMDG) 14.1 - 14.6</b>	Not classified as dangerous in the meaning of transport regulations.
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	
Not relevant	

## **Section 15. Regulatory information**

### **Safety, health and environmental regulations/legislation specific for the substance or mixture**

## EU regulations

### Major Accident Hazard

### Legislation

### Occupational restrictions

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer

Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

Substances of very high concern (SVHC):

SEVESO III

Not applicable

Take note of Dir 94/33/EC on the protection of young people at work.

Not regulated

Not regulated

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of  $\geq 0.1\%$  (w/w).  
10-13


### National legislation Storage class

### Chemical safety assessment

For this product a chemical safety assessment was not carried out.

## Section 16. Other information

Full text of H-Statements referred to under sections 2 and 3.

<b>H317</b>	May cause an allergic skin reaction.
<b>Training advice</b>	Provide adequate information, instruction and training for operators.
<b>Labelling</b> Hazard pictograms 	
<b>Signal word</b>	Warning
<b>Hazard statements</b>	H317 May cause an allergic skin reaction.
<b>Precautionary statements</b>	Prevention
<b>Response</b>	P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
<b>Regional representation</b>	This information is given on the authorised Safety Data Sheet for your country.

### Training advice

Provide adequate information, instruction and training for operators.

### Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at [www.celltechgen.com](http://www.celltechgen.com).

### Regional representation

This information is given on the authorised Safety Data Sheet for your country.

**End of the safety data sheets**