

SAFETY DATA SHEET

Revision Date 11-Aug-2014 Version 1

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Code 30-240-CR

Product Name Hygromycin B, 50 mg/ml Solution

Pure substance/mixture Mixture

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

Corning B.V.

For Research Use Only. Not Intended for Diagnostic or Therapeutic Use.

1.3. Details of the supplier of the safety data sheet

Mediatech Inc., A Corning Subsidiary 9345 Discovery Blvd.

9345 Discovery Blvd. Fogostraat 12 Manassas, VA 20109 Fogostraat 12 1060 LJ Amsterdam, The Netherlands

JSA +31-(0)20-6557928

+1.703.471.5955

For further information, please contact

E-mail address ScientificSupportEMEA@Corning.com

1.4. Emergency telephone number

Emergency Telephone Chemtrec: +1-800-424-9300 (USA), +1-703-527-3887 (International; Call collect), (REF:

CCN 56 88)

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Regulation (EO) No 1272/2000	
Acute toxicity - Oral	Category 3 (H301)
Acute toxicity - Dermal	Category 3 (H311)
Acute toxicity - Inhalation (Dusts/Mists)	Category 2 (H330)
Serious eye damage/eye irritation	Category 1 (H318)
Respiratory sensitization	Category 1 (H334)

2.2. Label elements



Signal word Danger

Hazard statements

H301 - Toxic if swallowed

H311 - Toxic in contact with skin

H318 - Causes serious eye damage

H330 - Fatal if inhaled

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

Precautionary Statements

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P264 - Wash hands thoroughly after handling

P271 - Use only outdoors or in a well-ventilated area

P280 - Wear protective gloves

P284 - Wear respiratory protection

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/physician

P362 - Take off contaminated clothing and wash before reuse

P405 - Store locked up

P501 - Dispose of contents/ container to an approved waste disposal plant

Classification according to Directive 67/548/EEC or 1999/45/EC

T+ - Very toxic, Xn - Harmful, Xi - Irritant



R-Phrases

R41 - Risk of serious damage to eyes

R42/43 - May cause sensitization by inhalation and skin contact

R26/27/28 - Very toxic by inhalation, in contact with skin and if swallowed

S phrases

S23 - Do not breathe vapor

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S28 - After contact with skin, wash immediately with plenty of water

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection

S45 - In case of accident or if you feel unwell, seek medical advice immediately

2.3. Other hazards

None known

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Chemical Name	EC No	CAS No	Weight-%	Classification according to 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hygromycin B	250-545-5	31282-04-9	1-5	T+; R26/27/28-R41- R42/43	Acute Toxicity 2 (H300) Acute Toxicity 2 (H310) Acute Toxicity 1 (H330)
					Serious Eye Damage 1 (H318) Respiratory Sensitization 1 (H334)

The substance does not require registration according to REACH.

Full text of R-phrases: see section 16 .

Full text of H- and EUH-phrases: see section 16.

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

General advice Remove contaminated clothing and shoes.

Inhalation Remove to fresh air. If not breathing, give artificial respiration. Call a physician or poison

control center immediately.

Skin Contact Wash off immediately with soap and plenty of water. Seek immediate medical

attention/advice.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Immediate medical attention is required.

Ingestion If swallowed, rinse mouth with water (only if the person is conscious). Never give anything

by mouth to an unconscious person. Call a physician.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms See Section 11: TOXICOLOGICAL INFORMATION.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

No information available.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Hazardous combustion products

Carbon oxides, Nitrogen oxides (NOx)

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautionsUse personal protective equipment as required. Evacuate personnel to safe areas. Ensure

adequate ventilation, especially in confined areas. Avoid breathing

dust/fume/gas/mist/vapors/spray.

6.2. Environmental precautions

Collect spillage. Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder,

sawdust). Pick up and transfer to properly labeled containers. Prevent product from

entering drains.

6.4. Reference to other sections

See Section 13: DISPOSAL CONSIDERATIONS, Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin and eyes. Do not breathe dust/fume/gas/mist/vapors/spray. Ensure adequate

ventilation, especially in confined areas.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

7.3. Specific end use(s)

This product is for research and development only.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL)No information available

Predicted No Effect Concentration No information available.

(PNEC)

8.2. Exposure controls

Engineering Controls Ensure adequate ventilation, especially in confined areas. Handle in accordance with good

industrial hygiene and safety practice. Wash hands thoroughly after handling.

Personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Hand Protection Wear protective nitrile rubber gloves.

Skin and body protection Suitable protective clothing.

Respiratory protection In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and

protective suit.

Recommended Filter type: Multi-purpose combination (US); ABEK (EN 14387).

Environmental exposure controls Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state liquid

AppearanceclearOdorNo information availableColorcolorless / light yellowOdor thresholdNo information available

Property Values Remarks • Method

pH No information available
Melting point/freezing point No information available
Boiling point / boiling range
Flash point No information available
Evaporation rate No information available
Flammability (solid, gas)
Flammability Limit in Air

Upper flammability limit:
Lower flammability limit
Vapor pressure
Vapor density
Specific Gravity
Water solubility

No information available
No information available
No information available
No information available
Soluble in water

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 **Dvnamic viscosity** No information available **Explosive properties** No information available **Oxidizing properties** No information available

9.2. Other informationNo information available

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

None under normal use conditions

Thermal decomposition can lead to release of irritating and toxic gases and vapors Carbon oxides, Nitrogen oxides (NOx).

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity

Product Information

No acute toxicity information is available for this product

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50		
Hygromycin B	= 13 mg/kg (Rat)	-	= $2220 \mu g/m^3$ (Rat) 4 h		

Skin corrosion/irritation Irritating to skin

Serious eye damage/eye irritation Risk of serious damage to eyes.

Sensitization May cause sensitization by inhalation and skin contact.

Germ cell mutagenicity No information available.

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA,

IARC or NTP

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
Aspiration hazard
No information available.
No information available.
No information available.

Target Organs Ears, kidneys.

Potential health effects

Inhalation May be harmful if inhaled.

Ingestion May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea,

vomiting and diarrhea.

Skin Irritating to skin.

Eyes Risk of serious damage to eyes.

Symptoms Symptoms include burning sensation, coughing, wheezing, shortness of breath, headache,

nausea, and vomiting. May cause skin irritation and/or dermatitis.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

There is no known ecological information for this product

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

No information available

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from Residues / Unused

Products

Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated packaging Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Section 14: TRANSPORT INFORMATION

IMDG

14.1 UN/ID No. UN2810

14.2 Proper shipping name Toxic liquid, organic, n.o.s.

14.3 Hazard Class 6.1

14.4 Packing Group

Description UN2810, Toxic liquid, organic, n.o.s. (Hygromycin B), 6.1, I

14.5 Marine pollutant Not Applicable

14.6 Special ProvisionsEmS-No
None
F-A, S-A

14.7 Transport in bulk according to No information available

Annex II of MARPOL 73/78 and the

IBC Code

RID

14.1 UN/ID No. UN2810

14.2 Proper shipping name Toxic liquid, organic, n.o.s.

14.3 Hazard Class 6.1 **14.4 Packing Group**

Description UN2810, Toxic liquid, organic, n.o.s. (Hygromycin B), 6.1, I

14.5 Environmental hazard Not Applicable

Classification code T1

14.6 Special Provisions None

ADR

14.1 UN/ID No. UN2810

14.2 Proper shipping name Toxic liquid, organic, n.o.s.

14.3 Hazard Class 6.1

14.4 Packing Group

Description UN2810, Toxic liquid, organic, n.o.s. (Hygromycin B), 6.1, I, (C/E)

14.5 Environmental hazard Not Applicable

14.6 Special Provisions None
Classification code T1
Tunnel restriction code (C/E)

ICAO (air)

14.1 UN/ID No. UN2810

14.2 Proper shipping name Toxic liquid, organic, n.o.s.

14.3 Hazard Class 6.1 14.4 Packing Group

Description UN2810, Toxic liquid, organic, n.o.s. (Hygromycin B), 6.1, I

14.5 Environmental hazard Not Applicable

14.6 Special Provisions None

IATA

14.1 UN/ID No. UN2810

14.2 Proper shipping name Toxic liquid, organic, n.o.s.

14.3 Hazard Class 6.1

14.4 Packing Group

Description UN2810, Toxic liquid, organic, n.o.s. (Hygromycin B), 6.1, I

14.5 Environmental hazard Not Applicable

14.6 Special Provisions None ERG Code 6L

Section 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Water hazard class (WGK) Water endangering class = 3 (self classification)

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Hygromycin B	-	•	-	Χ	-	ı	Χ	-	-	-

Legend

X = Listed, - = Not Listed

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 Chemical Substances/European 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

15.2. Chemical safety assessment

No information available

Section 16: OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3

R26/27/28 - Very toxic by inhalation, in contact with skin and if swallowed

R41 - Risk of serious damage to eyes

R42/43 - May cause sensitization by inhalation and skin contact

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

H300 - Fatal if swallowed

H301 - Toxic if swallowed

H310 - Fatal in contact with skin

H311 - Toxic in contact with skin

H318 - Causes serious eye damage

H330 - Fatal if inhaled

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

Version 1

Revision Date 11-Aug-2014
Revision Note Not Applicable.

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

Disclaimer

To the best of our knowledge, the information contained herein is accurate. However, neither Corning Incorporated nor any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

End of Safety Data Sheet