

SAFETY DATA SHEET

Revision Date 31-Jul-2014

Version 1

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

1.1. Product identifier

Product Code 30-002-CI

Product Name Penicillin-Streptomycin Solution, 100x

Pure substance/mixture Mixture

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

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 Coming B.V.

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

USA +31-(0)20-6557928

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

 Resultation (ECI No 1277/2009)

 Resultation (ECI No 1277/2009)

 Sale septratory sensitization
 Category 1 (H334)

 Skin sensitization
 Category 1 (H317)

 Exproductive Toxicity
 Category 2 (H361)

2.2. Label elements



Hazard statements

H317 - May cause an allergic skin reaction

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

H361 - Suspected of damaging fertility or the unborn child

Precautionary Statements

P201 - Obtain special instructions before use

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P202 - Do not handle until all safety precautions have been read and understood

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P285 - In case of inadequate ventilation wear respiratory protection

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

P304 + P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for

P308 + P313 - IF exposed or concerned: Get medical advice/attention

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention
P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician

P342 + P311 - If experiencing respiratory sympto P363 - Wash contaminated clothing before reuse

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

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



R-Phrases

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

R63 - Possible risk of harm to the unborn child

S phrases S22 - Do not breathe dust

S36/37 - Wear suitable protective clothing and gloves

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

2.3. Other hazards

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]
Streptomycin sulfate	223-286-0	3810-74-0	1-5	Xn; R22-R63	Acute Toxicity 4 (H302) Reproductive Toxicity 2 (H361)
Penicillin G potassium salt	204-038-0	113-98-4	0.1-1	Xn: R42/43	Respiratory Sensitization 1 (H334) Skin Sensitization 1 (H317)

The substance does not require registration according to REACH.

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

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

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

Skin Contact Wash off immediately with soap and plenty of water. Remove contaminated clothing and

shoes. Call a physician.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

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Full text of R-phrases: see section 16 .

30-002-CI Penicillin-Streptomycin Solution, 100x

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 May cause allergy or asthma symptoms or breathing difficulties if inhaled

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), Oxides of sulfur

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

adequate ventilation, especially in confined areas. Avoid breathing vapors or mists.

For emergency responders Use personal protection recommended in Section 8.

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. 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, eyes or clothing. Avoid breathing vapors or mists. 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 No information available

Derived No Effect Level (DNEL) Predicted No Effect Concentration No information available

(PNEC)

8.2. Exposure controls

Flammability (solid, gas)

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

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

Hand Protection Wear protective nitrile rubber gloves. Skin and body protection Suitable protective clothing

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

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 Appearance dear Odo No information available Color coloriess Odor threshold No information available

Remarks • Method No information availal Property Values No inform nation available Melting point/freezing point No information available No information available No information available No information available

Boiling point / boiling range No information available Flash point Evaporation rate No information available No information available

Flammability Limit in Air Upper flammability limit: No information available No information available Lower flammability limit No information available Vapor pressure Vapor density No information available Specific Gravity No information available Water solubility Soluble in water No information available Solubility in other solvents No information available Partition coefficient

Autoignition temperature No information available No information available Decomposition temperature Kinematic viscosity No information available No information available Dynamic viscosity Explosive properties No information available

30-002-CI Penicillin-Streptomycin Solution, 100x

Oxidizing properties

No information available

9.2. Other information

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity No data available

10.2. Chemical stability

10.3. Possibility of hazardous reactions
None under normal processing.

10.4. Conditions to avoid None known

10.5. Incompatible materials
Strong exidizing 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), Oxides of sulfur.

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
Streptomycin sulfate	430 mg/kg (rat)		
Penicillin G potassium salt	6700 mg/kg (Rat)		

Sensitization May cause sensitization by inhalation and skin contact.

Germ cell mutagenicity No information available.

Carcinogenicity No information available

Reproductive toxicity Contains a known or suspected reproductive toxin.

Developmental Toxicity Possible risk of harm to the unborn child.

STOT - single exposure No information available. No information available

STOT - repeated exposure Aspiration hazard No information available.

Target Organs Ears, kidneys.

Potential health effects

Inhalation May be harmful if inhaled. May cause irritation of respiratory tract. May cause allergic

respiratory reaction. May be harmful if swallowed.

Ingestion Skin May be harmful in contact with skin. May cause irritation.

Eyes May cause eye irritation.

Symptoms May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Streptomycin sulfate	EC50 Selenastrum capricomutum	LC50 Oncorhynchus mykiss	EC50 Daphnia magna (water flea)
	(green algae) 0.133 mg/L (72 hr)	(rainbow trout) >180mg/L (96 hr)	650 mg/L (48 hr)
Penicillin G potassium salt		500: 96 h Leuciscus idus melanotus	1000: 48 h Daphnia magna mg/L

12.2. Persistence and degradability No information available.

12.3. Rioaccumulative notential

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1	Chemical Name	Partition coefficient
1	Peninilin G notaerium ealt	log Kow - 1 82

12.4. Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects No information available

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from Residues / Unused Disposal should be in accordance with applicable regional, national and local laws and Products regulations.

Contaminated packaging

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

Section 14: TRANSPORT INFORMATION

14.1 UN/ID No. Not regulated

14.2 Proper shipping name Not regulated 14.3 Hazard Class Not regulated

14.4 Packing Group Not regulated 14.5 Marine pollutant Not Applicable

14.6 Special Provisions None 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. Not regulated 14.2 Proper shipping name Not regulated 14.3 Hazard Class Not regulated

14.4 Packing Group Not regulated 14.5 Environmental hazard Not Applicable None

14.6 Special Provisions

ADR

14.1	UN/ID No.	Not regulated
14.2	Proper shipping name	Not regulated
14.3	Hazard Class	Not regulated
14.4	Packing Group	Not regulated
14.5	Environmental hazard	Not Applicable
	One of all Descriptions	Mono

ICAO (air)

14.1 UN/ID No.	Not regulated
14.2 Proper shipping name	Not regulated
14.3 Hazard Class	Not regulated
14.4 Packing Group	Not regulated
14.5 Environmental hazard	Not Applicable
14.6 Special Provisions	None

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14.1 UN/ID No.	Not regulated
14.2 Proper shipping name	Not regulated
14.3 Hazard Class	Not regulated
14.4 Packing Group	Not regulated
14.5 Environmental hazard	Not Applicable
14.6 Special Provisions	None

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 = 2 (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

TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Х	X	·	X			Х	Х	Х	Х
Х	X		X				Х	Х	Х
	TSCA X X	TSCA DSL X X X X	TSCA DSL NDSL X X	TSCA	TSCA DSL NDSL EINECS ELINCS X X .	TSCA DSL NDSL EINECS ELINCS ENCS	TSCA DSL NDSL EINECS ELINCS ENCS IECSC X X . </td <td> TSCA</td> <td> TSCA DSL NDSL EINECS ELINCS ENCS IECSC KECL PICCS X X -</td>	TSCA	TSCA DSL NDSL EINECS ELINCS ENCS IECSC KECL PICCS X X -

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

R22 - Harmful if swallowed

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

R63 - Possible risk of harm to the unborn child

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

H302 - Harmful if swallowed

H317 - May cause an allergic skin reaction

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

H361 - Suspected of damaging fertility or the unborn child

Revision Date

31-Jul-2014 Not Applicable Revision Note

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

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