

# Safety Data Sheet

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Classification according to Regulation (EC) No. 1272/2008 [CLP]

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### **Product identifier**

Product code 15640055

Product name Penicillin-Streptomycin-Neomycin (PSN) Antibiotic Mixture 100X

Unique Formula Identifier

(UFI)

Not Applicable

Chemical Name Not Applicable

REACH registration number No registration number is given yet for this substance / substances in this mixture

since the annual import quantity is less than one tonnage per annum or the transition period for its registration according to Article 23 of REACH has not yet

expired.

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

**Relevant identified uses** For research use only. Not for use in diagnostic procedures

**Use Description Code** SU22 - Professional uses: Public domain (administration, education,

entertainment, services, craftsmen), PROC15 - Use as laboratory reagent, PC21 -

Laboratory chemicals, SU24 - Scientific research and development

**Uses advised against** Not for consumer use.

## Details of the supplier of the safety data sheet

#### Manufacturer / Supplier

LIFE TECHNOLOGIES EUROPE BV KWARTSWEG 2 2665 NN BLEISWIJK NETHERLANDS 31-(0)180 392 400

Email: MSDS@lifetech.com

Life Technologies Limited 3 Fountain Drive Inchinnan Business Park Paisley PA4 9RF, UK +44 (0)141 814 6100

#### **Emergency telephone number**

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24 hour Emergency Response for Hazardous Materials Within the USA + Canada: 1-800-424-9300 and

[or Dangerous Goods] Incident. Spill, Leak, Fire, 1-703-527-3887

**Exposure, or Accident. Call CHEMTREC**Outside the USA + Canada: 1-703-741-5970

## **Country Specific Emergency Number (if available):**

CHEMTREC Ireland (Dublin) +(353)-19014670 (Greeting Language: English and Irish) +(44)-870-8200418 (Greeting Language: English)

## SECTION 2: Hazards identification

## Classification of the substance or mixture

## Classification according to Regulation (EC) No. 1272/2008 [CLP]

#### **Physical hazards**

Not Hazardous

#### **Health hazards**

Respiratory sensitiser	Category 1
Skin sensitiser	Category 1
Reproductive Toxicity	Category 2
Specific target organ toxicity - Single exposure	Category 1

#### **Environmental hazards**

Not Hazardous

#### Additional information

Not Applicable

#### Label elements

## Labelling according to Regulation (EC) No 1272/2008 [CLP]

## **Hazard pictograms**



#### Signal Word

Danger

#### **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

H370 - Causes damage to organs

#### **Precautionary Statements**

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#### Prevention

- P261 Avoid breathing dust/fume/gas/mist/vapours/spray
- P201 Obtain special instructions before use
- P260 Do not breathe dust/fume/gas/mist/vapours/spray
- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P284 In case of inadequate ventilation wear respiratory protection
- P264 Wash hands thoroughly after handling
- P272 Contaminated work clothing should not be allowed out of the workplace
- P202 Do not handle until all safety precautions have been read and understood
- P270 Do not eat, drink or smoke when using this product

#### Response

- P302 + P352 IF ON SKIN: Wash with plenty of soap and water
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing
- P308 + P313 IF exposed or concerned: Get medical advice/attention
- P308 + P311 IF exposed or concerned: Call a POISON CENTER or doctor
- 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
- P362 + P364 Take off contaminated clothing and wash it before reuse

#### **Storage**

Not Applicable

#### **Disposal**

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

#### Other hazards

This product does not contain any known or suspected endocrine disruptors.

## SECTION 3: Composition/information on ingredients

## **Mixtures**

Chemical Name	CAS No	EINECS-No.	Weight-%	REACH registration number	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Streptomycin sulfate	3810-74-0	223-286-0	0.1-1.0	-	Acute Tox. 4 - H302 Repr. 2 - H361
Neomycin sulfate	1405-10-3	-	0.5-1.5	-	Resp. Sens. 1 - H334 Skin Sens. 1 - H317 STOT SE. 1 - H370
Penicillin G Sodium Salt	69-57-8	-	0.1-1.0	-	Skin Sens. 1 - H317

Chemical Name	Specific concentration limit (SCL)	M-Factor	Acute Toxicity Estimate
Streptomycin sulfate	-	-	-
Neomycin sulfate	-	-	-
Penicillin G Sodium Salt	-	-	-

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#### SECTION 4: First aid measures

#### Description of first aid measures

Skin contact Wash off immediately with plenty of water for at least 15 minutes. Remove and

> wash contaminated clothing and gloves, including the inside, before re-use. Rinse immediately with plenty of water, also under the eyelids, for at least 15

Eye contact

minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Never give anything by mouth to an unconscious person. Do not induce vomiting

without medical advice. Get medical attention if symptoms occur.

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

poison control centre immediately.

**Notes to Physician** Treat symptomatically.

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

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 H370 - Causes damage to organs

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

If skin irritation or rash occurs: Get medical advice/attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. IF exposed or concerned: Get medical advice/attention.

## SECTION 5: Firefighting measures

## **Extinguishing media**

Ingestion

Suitable extinguishing media Water spray. Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical. Unsuitable extinguishing media No information available.

Special hazards arising from the substance or mixture Not known

**Hazardous Combustion Products** No known hazardous decomposition products.

Advice for firefighters Wear self-contained breathing apparatus and protective

suit.

## SECTION 6: Accidental release measures

## Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation
Always wear recommended Personal Protective Equipment
Use personal protection equipment
Avoid contact with skin, eyes or clothing
See section 8 for more information

#### **Environmental precautions**

No special environmental precautions required. Avoid discharge into drains and waterways whenever possible.

#### Methods and material for containment and cleaning up

Soak up with inert absorbent material.

#### Reference to other sections

See section 8 for more information.

## SECTION 7: Handling and storage

## Precautions for safe handling

Always wear recommended Personal Protective Equipment. See section 8 for more information. Do not get in eyes, on skin, or on clothing. Do not ingest. If during normal use the material presents a respiratory hazard, use adequate ventilation and/or wear appropriate respirator.

## **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice.

## Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep in properly labelled containers. Store in accordance with local regulations.

#### Specific end use(s)

For research use only. Not for use in diagnostic procedures.

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## SECTION 8: Exposure controls/personal protection

## **Control parameters**

Chemical Name	EU OEL (TWA)	EU OEL (STEL)	EU Skin Notation
Streptomycin sulfate 3810-74-0	None	None	None
Neomycin sulfate 1405-10-3	None	None	None
Penicillin G Sodium Salt 69-57-8	None	None	None

Chemical Name	Austria	Belgium (TWA)	Czech Republic
Streptomycin sulfate 3810-74-0	None	None	None
Neomycin sulfate 1405-10-3	None	None	None
Penicillin G Sodium Salt 69-57-8	None	None	None

Chemical Name	Denmark (TWA)	Finland OEL (TWA)	France OEL (VME)
Streptomycin sulfate 3810-74-0	None	None	None
Neomycin sulfate 1405-10-3	None	None	None
Penicillin G Sodium Salt 69-57-8	None	None	None

Chemical Name	Germany OEL (TWA)	Ireland (TWA)	Italy OEL (TWA)
Streptomycin sulfate	None	None	None
3810-74-0			
Neomycin sulfate	None	None	None
1405-10-3			
Penicillin G Sodium Salt	None	None	None
69-57-8			

Chemical Name	Lithuania OEL (TWA)	Netherlands OEL (MAC)	Norway
Streptomycin sulfate 3810-74-0	None	None	None
Neomycin sulfate 1405-10-3	None	None	None
Penicillin G Sodium Salt 69-57-8	None	None	None

Chemical Name	Poland	Portugal	Spain OEL (TWA)
Streptomycin sulfate 3810-74-0	None	None	None
Neomycin sulfate 1405-10-3	None	None	None
Penicillin G Sodium Salt 69-57-8	None	None	None

Chemical Name	Sweden - Occupational Exposure Limits - TLVs (LLVs)	Switzerland	United Kingdom
Streptomycin sulfate 3810-74-0	None	None	None
Neomycin sulfate 1405-10-3	None	None	None
Penicillin G Sodium Salt 69-57-8	None	None	None

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## **Derived No Effect Level (DNEL)**

See table for values

Component	Acute effects local (Dermal)	Acute effects systemic (Dermal)	Chronic effects local (Dermal)	Chronic effects systemic (Dermal)
Streptomycin sulfate 3810-74-0 ( 0.1-1.0 )	None	None	None	None
Neomycin sulfate 1405-10-3 ( 0.5-1.5 )	None	None	None	None
Penicillin G Sodium Salt 69-57-8 ( 0.1-1.0 )	None	None	None	None

Component	Acute effects local (Inhalation)	Acute effects systemic (Inhalation)	Chronic effects local (Inhalation)	Chronic effects systemic (Inhalation)
Streptomycin sulfate 3810-74-0 ( 0.1-1.0 )	None	None	None	None
Neomycin sulfate 1405-10-3 ( 0.5-1.5 )	None	None	None	None
Penicillin G Sodium Salt 69-57-8 ( 0.1-1.0 )	None	None	None	None

## **Predicted No Effect Concentration (PNEC)**

See table for values

Chemical Name	Fresh water sediment	Fresh water	Water Intermittent	Microorganisms in sewage treatment	Soil (Agriculture)
Streptomycin sulfate 3810-74-0	None	None	None	None	None
Neomycin sulfate 1405-10-3	None	None	None	None	None
Penicillin G Sodium Salt 69-57-8	None	None	None	None	None

Component	Marine water	Marine water sediment	Marine water Intermittent	Food chain	Air
Streptomycin sulfate 3810-74-0 ( 0.1-1.0 )	None	None	None	None	None
Neomycin sulfate 1405-10-3 ( 0.5-1.5 )	None	None	None	None	None
Penicillin G Sodium Salt 69-57-8 ( 0.1-1.0 )	None	None	None	None	None

**Engineering Measures** Ensure a

Ensure adequate ventilation, especially in confined areas.

## **Exposure controls**

## **Personal protection equipment**

Respiratory protection In case of insufficient ventilation wear respirators and components tested and

approved under appropriate government standards.

**Hand protection** Wear suitable gloves Glove material: Compatible chemical-resistant gloves.

**Eye protection** Tight sealing safety goggles.

**Skin and Body Protection** Wear laboratory coat for body protection.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

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#### **Environmental exposure controls**

No special environmental precautions required. Avoid discharge into drains and waterways whenever possible.

## SECTION 9: Physical and chemical properties

°F No data

°F No data

## Information on basic physical and chemical properties

Physical state
Colour
No data
Odour
No data
Molecular Weight
No data
Melting point / melting range
Boiling point / boiling range
Flammability (solid, gas)
Iiquid
No data
No data
No data
No data

Flammability (solid, gas)

Lower explosion limit

Upper explosion limit

No data

No data

Flash point °C No data °F No data
Autoignition Temperature °C No data °F No data
Decomposition temperature °C No data °F No data °F No data

pH >4-6
Evaporation rate No data
Viscosity No data
Solubility No data
Partition coefficient: No data

n-octanol/water

Vapour PressureNo dataSpecific gravityNo dataRelative densityNo dataVapour densityNo dataExplosive propertiesNo dataOxidising propertiesNo dataParticle characteristicsNo data

#### Other information

## Information with regards to physical hazard classes

No information available

#### Other safety characteristics

No information available

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## SECTION 10: Stability and reactivity

Reactivity None known.

Chemical stability Stable under normal conditions.

Possibility of hazardous

reactions

Hazardous reaction has not been reported.

**Conditions to avoid**No information available.

**Incompatible materials**No dangerous reaction known under conditions of normal use.

**Hazardous decomposition** 

products

No known hazardous decomposition products.

## SECTION 11: Toxicological information

## Information on hazard classes as defined in Regulation (EC) No 1272/2008

**Product Information**No acute toxicity information is available for this product

#### **Acute Toxicity**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Streptomycin sulfate	= 430 mg/kg (Rat)	No data available	No data available
Neomycin sulfate	No data available	No data available	No data available
Penicillin G Sodium Salt	= 6916 mg/kg (Rat)	No data available	No data available

## **Principal Routes of Exposure**

**Skin corrosion/irritation** Data are conclusive but insufficient for classification

Serious eye damage/irritation Data are conclusive but insufficient for classification

Respiratory or skin sensitisation

May cause sensitisation by inhalation and skin contact

Specific target organ toxicity Causes damage to organs

(STOT) - single exposure

Specific target organ toxicity Data are conclusive but insufficient for classification

(STOT) - repeated exposure

Carcinogenicity Data are conclusive but insufficient for classification

**Germ cell mutagenicity** Data are conclusive but insufficient for classification

Reproductive Toxicity

May damage fertility or the unborn child

Aspiration Hazard Data are conclusive but insufficient for classification

Information on other hazards

**Endocrine disrupting** 

properties

This product does not contain any known or suspected endocrine disruptors.

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## SECTION 12: Ecological information

#### **Toxicity**

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Microtox Data	log Pow
Streptomycin sulfate	No data available	No data available	No data available	No data available	No data available
Neomycin sulfate	No data available	No data available	No data available	No data available	No data available
Penicillin G Sodium Salt	No data available	No data available	No data available	No data available	No data available

Persistence and degradability No information available.

**Bioaccumulative potential** No information available.

Mobility in soil No information available.

Results of PBT and vPvB

assessment

No information available.

## **Endocrine disrupting properties**

This product does not contain any known or suspected endocrine disruptors

Other adverse effects

Persistent Organic Pollutant This product does not contain any known or suspected substance

Ozone depletion potential (ODP) This product does not contain any known or suspected substance

## SECTION 13: Disposal considerations

#### Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

#### **SECTION 14: Transport information**

#### IATA / ADR / DOT-US / IMDG

Not classified as dangerous in the meaning of transport regulations

UN number or ID number
UN proper shipping name
Transport hazard class(es)
Packing group
Not Applicable
Not Applicable
Not Applicable

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#### **Environmental hazards**

Not Applicable

## Special precautions for user

Not Applicable

## Maritime transport in bulk according to IMO instruments

Not Applicable.

## **SECTION 15: Regulatory information**

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

## **Substances of Very High Concern**

None

## Substance subject to authorisation per REACH Annex XIV

None

#### Restricted substances under EC 1907/2006, Annex XVII

Chemical Name	Weight-%	EU - REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances
Penicillin G Sodium Salt	0.1-1.0	Use restricted. See item 75.

# Regulation (EC) No 649/2012 (Rotterdam Convention - export/import of dangerous chemicals)

None

## Regulation (EU) No 2019/1021 (Stockholm Convention – persistent organic pollutants)

None

## EU - Substances Depleting the Ozone layer (1005/2009)

None

## German Water hazard classes (Wassergefährdungsklassen)

Not classified.

#### Other International Inventories

Chemical Name	EINECS (European Union)	ELINCS (European List of Notified Chemical	ENCS (Japan)	PICCS (Philippines)
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		Substances)		
Streptomycin sulfate	Listed	=	-	Listed
Neomycin sulfate	Listed	-	-	Listed
Penicillin G Sodium Salt	Listed	=	Listed	=

Chemical Name	AICS (Australia)	South Korea (KECL)	Canada (DSL)	NDSL
Streptomycin sulfate	Listed	Listed	Listed	-
Neomycin sulfate	-	Listed	Listed	=
Penicillin G Sodium Salt	-	Listed	Listed	=

## **Chemical safety assessment**

No Chemical safety assessment has been carried out.

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#### SECTION 16: Other information

Reason for revision Update according to Commission Regulation EU No. 2020/878

Revision number 6

Revision date 16-Mar-2024

#### References

ECHA: http://echa.europa.eu/TOXNET: http://toxnet.nlm.nih.gov/

eChemPortal: http://www.echemportal.org/

· LOLI database: https://www.chemadvisor.com/loli-database

# Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Respiratory sensitiser

Skin sensitiser

Reproductive Toxicity

Specific target organ toxicity - Single

Category 1

Category 1

Calculation method

Calculation method

Calculation method

Calculation method

Calculation method

Calculation method

## Abbreviations and acronyms

TWA - Time-Weighted Average

OELs - Occupational Exposure Limits

STEL - Short Term Exposure Limit

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**KECL** - Korean Existing and Evaluated Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

**CEPA** - Canadian Environmental Protection Act

EPA - Environmental Protection Agency

OSHA - Occupational Safety and Health Administration of the US Department of Labour

IATA - International Air Transport Association

**DOT** - Department of Transportation

IMDG - International Maritime Dangerous Goods

**ACGIH** - American Conference of Governmental Industrial Hygienists

NIOSH - National Institute for Occupational Safety and Health

AIHA - American Industrial Hygiene Association

HMIS - Department of Defense Hazardous Materials Information System

NTP - National Toxicology Program

IARC - International Agency for Research on Cancer

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006.

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held

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Mixture 100X

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PURPOSE"	
Revision number 6 Product code 15640055	Revision date 16-Mar-202 Product name Penicillin-Streptomycin-Neomycin (PSN) Antibioti