

acc. to Regulation (EC) No. 1907/2006 (REACH)

## Neomycin sulfate for cell biology

Version number: GHS 2.0 Revision: 2024-08-23 Replaces version of: 2021-01-18 (GHS 1)

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

1.1 Product identifier

Identification of the substance Neomycin sulfate for cell biology

**CAS number** 1405-10-3

Article number 1136

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

**Relevant identified uses**General use

1.3 Details of the supplier of the safety data sheet

NeoFroxx GmbH Marie-Curie-Str. 3 D-64683 Einhausen Germany

Telephone: +49 (6251) 989 24 - 0 e-mail: info@neofroxx.com Website: neofroxx.com

info@neofroxx.com (neoFroxx GmbH)

1.4 Emergency telephone number

e-mail (competent person)

Poison centre			
Country	Name	Postal code/city	Telephone
United Kingdom	National Poisons Information Service		111

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Classification acc. to GHS

Section	Hazard class	Category	Hazard class and cat- egory	Hazard state- ment	
3.4R	respiratory sensitisation	1B	Resp. Sens. 1B	H334	
3.45	skin sensitisation	1B	Skin Sens. 1B	H317	

For full text of abbreviations: see SECTION 16.

#### 2.2 Label elements

#### Labelling

- Signal word danger

- Pictograms

GHS08



- Hazard statements

H317

May cause an allergic skin reaction.

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

United Kingdom: en Page: 1 / 10



acc. to Regulation (EC) No. 1907/2006 (REACH)

## Neomycin sulfate for cell biology

Version number: GHS 2.0 Revision: 2024-08-23

Replaces version of: 2021-01-18 (GHS 1)

#### - Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection

tion.

P284 In case of inadequate ventilation wear respiratory protection.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

P362+P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents/container to industrial combustion plant.

#### 2.3 Other hazards

#### Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

#### **Endocrine disrupting properties**

Does not contain an endocrine disruptor (ED) at a concentration of  $\geq 0.1\%$ .

#### **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Name of substance Neomycin sulfate for cell biology

**Identifiers** 

CAS No 1405-10-3

 $\text{Molecular formula} \hspace{1cm} \text{$\mathsf{C}_{23}\mathsf{H}_{46}\mathsf{N}_{6}\mathsf{O}_{13}$^* 3 $\mathsf{H}_{2}\mathsf{SO}_{4}$ }$ 

Molar mass 908.9 g/mol

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

#### **General notes**

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

#### Following skin contact

Rinse skin with water/shower.

#### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

#### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

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

Allergic reactions.

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

none

United Kingdom: en Page: 2 / 10



acc. to Regulation (EC) No. 1907/2006 (REACH)

## Neomycin sulfate for cell biology

Version number: GHS 2.0 Revision: 2024-08-23 Replaces version of: 2021-01-18 (GHS 1)

#### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

#### Suitable extinguishing media

Water, Foam, Alcohol resistant foam, ABC-powder

#### Unsuitable extinguishing media

Water jet

#### 5.2 Special hazards arising from the substance or mixture

Deposited combustible dust has considerable explosion potential.

#### **Hazardous combustion products**

Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2), Sulphur oxides (SOx)

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

#### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Remove persons to safety.

#### For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

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

#### Advice on how to contain a spill

Covering of drains, Take up mechanically

#### Advice on how to clean up a spill

Take up mechanically.

#### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

#### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

#### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

#### Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Take precautionary measures against static discharge. Use only in well-ventilated areas. Ground/bond container and receiving equipment.

- Specific notes/details

Dust deposits may accumulate on all deposition surfaces in a technical room. The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

United Kingdom: en Page: 3 / 10



acc. to Regulation (EC) No. 1907/2006 (REACH)

## Neomycin sulfate for cell biology

Version number: GHS 2.0 Revision: 2024-08-23

Replaces version of: 2021-01-18 (GHS 1)

#### Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

#### 7.2 Conditions for safe storage, including any incompatibilities

#### Managing of associated risks

- Explosive atmospheres Removal of dust deposits.
- Ventilation requirements
  Use local and general ventilation.

#### 7.3 Specific end use(s)

See section 16 for a general overview.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

Occup	Occupational exposure limit values (Workplace Exposure Limits)									
Coun- try	Name of agent	CAS No	Identi- fier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [mg/m³]		Source
GB	dust		WEL		10				i	EH40/20 05
GB	dust		WEL		4				r	EH40/20 05

#### **Notation**

Ceiling-C ceiling value is a limit value above which exposure should not occur

i inhalable fractionr respirable fraction

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute peri-

od (unless otherwise specified)

TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours

time-weighted average (unless otherwise specified)

#### 8.2 Exposure controls

#### Appropriate engineering controls

General ventilation.

#### Individual protection measures (personal protective equipment)

#### Eye/face protection

Wear eye/face protection.

#### Skin protection

- Hand protection

Wear protective gloves.

- Type of material

NBR: acrylonitrile-butadiene rubber

- Material thickness min. 0,11 mm

- Breakthrough times of the glove material

>480 minutes (permeation: level 6)

United Kingdom: en Page: 4 / 10



acc. to Regulation (EC) No. 1907/2006 (REACH)

## Neomycin sulfate for cell biology

Version number: GHS 2.0 Revision: 2024-08-23 Replaces version of: 2021-01-18 (GHS 1)

#### - Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

#### **Respiratory protection**

Particulate filter device (EN 143). P2 (filters at least 94 % of airborne particles, colour code: White).

#### **Environmental exposure controls**

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

### **SECTION 9: Physical and chemical properties**

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

Physical state	solid
Colour	light yellow
Odour	odourless
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	not determined
Flammability	this material is combustible, but will not ignite readily
Lower and upper explosion limit	not relevant (solid)
Flash point	not applicable
Auto-ignition temperature	not determined
Decomposition temperature	not relevant
pH (value)	5 – 7.5 (in aqueous solution: 50 <sup>g</sup> / <sub>l</sub> , 20 °C)
Kinematic viscosity	not relevant

#### Solubility(ies)

Water solubility 500 <sup>g</sup> / <sub>l</sub> at 20 °C
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#### **Partition coefficient**

Partition coefficient n-octanol/water (log value)	this information is not available
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Vapour pressure	not determined
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#### Density and/or relative density

Density	not determined
Relative vapour density	not relevant (solid)

United Kingdom: en Page: 5 / 10



acc. to Regulation (EC) No. 1907/2006 (REACH)

## Neomycin sulfate for cell biology

Version number: GHS 2.0 Revision: 2024-08-23

Replaces version of: 2021-01-18 (GHS 1)

Particle characteristics	no data available
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#### 9.2 Other information

Information with regard to physical hazard classes	hazard classes acc. to GHS (physical hazards): not relevant
Other safety characteristics	there is no additional information

#### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

#### 10.2 Chemical stability

See below "Conditions to avoid".

#### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

#### Hints to prevent fire or explosion

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

#### 10.5 Incompatible materials

Oxidisers

#### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

#### **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### Classification acc. to GHS

#### **Acute toxicity**

Shall not be classified as acutely toxic.

#### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

#### Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

#### Respiratory or skin sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

#### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

#### Carcinogenicity

Shall not be classified as carcinogenic.

#### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

#### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

United Kingdom: en Page: 6 / 10



acc. to Regulation (EC) No. 1907/2006 (REACH)

## Neomycin sulfate for cell biology

Version number: GHS 2.0 Revision: 2024-08-23 Replaces version of: 2021-01-18 (GHS 1)

#### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

#### **Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

#### 11.2 Information on other hazards

There is no additional information.

#### **SECTION 12: Ecological information**

#### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

#### 12.2 Persistence and degradability

Data are not available.

#### 12.3 Bioaccumulative potential

Data are not available.

#### 12.4 Mobility in soil

Data are not available.

#### 12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

#### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\geq 0.1\%$ .

#### 12.7 Other adverse effects

Data are not available.

#### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

#### Waste treatment of containers/packagings

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

#### **Remarks**

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

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

**14.1 UN number or ID number** not subject to transport regulations

**14.2 UN proper shipping name** not relevant

**14.3 Transport hazard class(es)** none

**14.4 Packing group** not assigned

**14.5 Environmental hazards** non-environmentally hazardous acc. to the dan-

gerous goods regulations

#### 14.6 Special precautions for user

There is no additional information.

United Kingdom: en Page: 7 / 10



acc. to Regulation (EC) No. 1907/2006 (REACH)

## Neomycin sulfate for cell biology

Version number: GHS 2.0 Revision: 2024-08-23 Replaces version of: 2021-01-18 (GHS 1)

#### 14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

#### Information for each of the UN Model Regulations

**International Maritime Dangerous Goods Code (IMDG) - Additional information**Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Not subject to ICAO-IATA.

#### **SECTION 15: Regulatory information**

## 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

#### **Deco-Paint Directive**

VOC content	0 %
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#### **Industrial Emissions Directive (IED)**

VOC content	0 %
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#### Water Framework Directive (WFD)

not listed

#### Regulation on persistent organic pollutants (POP)

not listed

#### 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance.

#### **SECTION 16: Other information**

#### Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relevant
1.1	Registration number (REACH): this information is not available		yes
2.3		Endocrine disrupting properties:  Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.	yes
9.1	Lower and upper explosion limit: not determined	Lower and upper explosion limit: not relevant (solid)	yes
9.1		Relative vapour density: not relevant (solid)	yes
12.5	Results of PBT and vPvB assessment: Data are not available.	Results of PBT and vPvB assessment: According to the results of its assessment, this substance is not a PBT or a vPvB.	yes
12.6	Endocrine disrupting properties: Not listed.	Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.	yes
14.2	UN proper shipping name: not assigned	UN proper shipping name: not relevant	yes
14.7	Transport of dangerous goods by road, rail and		yes

United Kingdom: en Page: 8 / 10



# **Safety Data Sheet** acc. to Regulation (EC) No. 1907/2006 (REACH)

## Neomycin sulfate for cell biology

Version number: GHS 2.0 Replaces version of: 2021-01-18 (GHS 1) Revision: 2024-08-23

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relevant
	inland waterway (ADR/RID/ADN) - Additional information: not assigned		
15.1	Restrictions according to REACH, Annex XVII: not listed		yes
15.1	List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list: not listed		yes
15.1	National inventories		yes
15.1		National inventories: change in the listing (table)	yes
15.1		Regulation on persistent organic pollutants (POP): not listed	yes
16		Abbreviations and acronyms: change in the listing (table)	yes
16	Key literature references and sources for data: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).	of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport	yes

## Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
DGR	Dangerous Goods Regulations (see IATA/DGR)
ED	Endocrine disruptor
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-li- cence/)
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
STEL	Short-term exposure limit
TWA	Time-weighted average

United Kingdom: en Page: 9 / 10



acc. to Regulation (EC) No. 1907/2006 (REACH)

## Neomycin sulfate for cell biology

Version number: GHS 2.0 Revision: 2024-08-23 Replaces version of: 2021-01-18 (GHS 1)

Abbr.	Descriptions of used abbreviations
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

#### Key literature references and sources for data

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

#### List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H317	May cause an allergic skin reaction.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.

#### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product. The information is intended to give you guidelines for the safe handling of the product mentioned in this safety data sheet during storage, processing, transport and disposal. The information is not transferable to other products. Insofar as the product is mixed, blended or processed with other materials or is subjected to processing, the information in this safety data sheet cannot be transferred to the new material produced in this way, unless expressly stated otherwise.

United Kingdom: en Page: 10 / 10