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

1.1 Product identifier

· **Trade name: CHROMagar™ Enterobacteria**

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

No further relevant information available.

· **Application of the substance / the preparation :** Reagent for Laboratory Use

1.3 Details of the supplier of the safety data sheet

· **Manufacturer/Supplier:**

CHROMagar
 4, place du 18 Juin 1940 - 75006 Paris
 Tel: +33 1 45 48 05 05
 Email : chromagar@chromagar.com

1.4 Emergency telephone number:

France (INRS 24h/24) - Tel : +33 (0)1 45 42 59 59

Ireland - Tel : 00 353 1 8092568 - 00 353 1 8379964 (24h/24) EU Tel: 112

Belgique - Tel : 32 070/245 245

UK : Call NHS 999 in a medical emergency. If you urgently need medical help or advice but it's not a lifethreatening situation, call 111 (24/7). The NHS 111 number is currently only available in certain areas. If you're outside of these areas, you should call NHS Direct on 0845 4647

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

· **Classification according to Regulation (EC) No 1272/2008 :**

The product is not classified according to the CLP regulation.

2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008 :	Not classified as hazardous
· Hazard pictograms :	Not classified as hazardous
· Signal word :	Not classified as hazardous
· Hazard statements :	Not classified as hazardous

· **Additional information :** EUH210 Safety data sheet available on request.

2.3 Other hazards

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

SECTION 3: Composition / information on ingredients

3.2 Mixtures

· **Description :** Mixture: consisting of the following components.


· **Dangerous components :**

CAS: 302-95-4


sodium 3-alpha, 12-alpha-dihydroxy-5-beta-cholan-24-oate

≤ 2,5%

EINECS: 206-132-7

 Acute Tox. 4, H302 ; STOT SE 3, H335

Index number: 011-005-00-2

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- **SVHC :** No
- **Additional information :** For the wording of the listed risk phrases, refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- **General information :** Position and transport stably in side position.
In case of irregular breathing or respiratory arrest provide artificial respiration.
- **After excessive inhalation :** Provide fresh air; consult a doctor in case of medical complaints.
- **After skin contact :** Generally the product does not irritate the skin.
In the event of irritation, to withdraw soiled clothing, to wash the parts reached with soapy water, to rinse with large water.
If skin irritation continues, consult a doctor.
- **After eye contact :** Rinse opened eye for several minutes under running water.
- **After swallowing :** Do not induce vomiting; call for medical help immediately.

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

No further relevant information available.

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

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture : No further relevant information available.

5.3 Advice for firefighters

- **Protective equipment :** No special measures required.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures :

No special measures required. Avoid formation of dust.

6.2 Environmental precautions :

Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow the product to enter sewers/ surface water or ground water.


6.3 Methods and material for containment and cleaning up : Pick up mechanically.

6.4 Reference to other sections :

See Section 7 for information on safe handling.
See Section 8 for information on personal protective equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling :** Keep away from heat and direct sunlight
Thorough dedusting.

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· **Information about fire - and explosion protection:** No special measures required.

7.2 Conditions for safe storage, including any incompatibilities :

- **Storage :**
- **Requirements to be met by storerooms and receptacles :** Store away from light and moisture.
No special requirements.
- **Information about storage in one common storage facility :** Not required.
- **Further information about storage conditions :** Store in cool, dry conditions in well sealed receptacles.
- **Recommended storage temperature :** 15-30°C

7.3 Specific end use(s) : No further relevant information available.

SECTION 8: Exposure controls / personal protection

· **Additional information about design of technical facilities :** No further data; see section 7.

8.1 Control parameters

· **Ingredients with limit values that require monitoring at the workplace :**
The product does not contain any significant quantities of materials with critical values that have to be monitored at the workplace.

· **Additional information :**
The most current valid lists have been used as a basis for the production of this document.

8.2 Exposure controls

- **Personal protective equipment :**
- **General protective and hygienic measures :**
The usual precautionary measures are to be adhered to when handling chemicals.

Respiratory protection : In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.



Protection of hands : Protective gloves.
EN374 gloves for chemicals.



Gloves material : Butyl rubber, BR.


Eye protection : Safety glasses.



Body protection :



Protective work clothing.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

· General Information

· Appearance :

Form : Powder

Colour : Beige

· **Odour :** Characteristic

· **Odour threshold :** Not determined.

· **pH-value :** Not applicable.

· Change in condition

Melting point/Melting range : Undetermined.

Boiling point/Boiling range : Undetermined.

· **Flash point :** Not applicable.

· **Flammability (solid, gaseous) :** Not determined.

· **Ignition temperature:** Not applicable.

· **Decomposition temperature:** Not determined.

· **Self-igniting :** Product is not self igniting.

· **Danger of explosion :** Product does not present an explosion hazard.

· Explosion limits :

Lower : Not determined.

Upper : Not determined.

· **Vapour pressure :** Not applicable.

· **Density at 20°C :** 0.5 +/- 0.1 g/cm³

· **Relative density :** Not determined.

· **Vapour density :** Not applicable.

· **Evaporation rate :** Not applicable.

· **Solubility in / Miscibility with water :** Partly soluble.

· **Segregation coefficient (n-octanol/water) :** Not determined.

· Viscosity:

Dynamic : Not applicable.

Kinematic : Not applicable.

9.2 Other information : No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity : No further relevant information available.

10.2 Chemical stability :

· Thermal decomposition / conditions to be avoided :


No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions : No dangerous reactions known.

10.4 Conditions to avoid : No further relevant information available.

10.5 Incompatible materials : No further relevant information available.

10.6 Hazardous decomposition products : No dangerous decomposition products known.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

- **Acute toxicity :** Based on available data, the classification criteria are not met.
- **LD/LC50 values relevant for classification:**
 CAS: 302-95-4 sodium 3-alpha,12-alpha-dihydroxy-5-β-cholan-24-oate
 Oral LD50 500 mg/kg (ATE)
- **Primary irritant effect :**
- **On the skin :** Based on available data, the classification criteria are not met.
- **On the eyes :** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation :** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction) :**
- **Germ cell mutagenicity :** Based on available data, the classification criteria are not met.
- **Carcinogenicity :** Based on available data, the classification criteria are not met.
- **Reproductive toxicity :** Based on available data, the classification criteria are not met.
- **STOT-single exposure :** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure :** Based on available data, the classification criteria are not met.
- **Aspiration hazard :** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1 Toxicity

- **Aquatic toxicity :** No further relevant information available.

12.2 Persistence and degradability : No further relevant information available.

12.3 Bioaccumulative potential : No further relevant information available.

12.4 Mobility in soil : No further relevant information available.

· **Additional ecological information:**

- **General notes :** Water hazard class 1 (German Regulation) (Self assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB assessment

- **PBT :** Not applicable.
- **vPvB :** Not applicable.

12.6 Other adverse effects : No further relevant information available.

SECTION 13: Disposal considerations


13.1 Waste treatment methods

- **Recommendation :** Must be specially treated according to official regulations.
- **Uncleaned packaging :**
- **Recommendation :** Disposal must be made according to official regulations

SECTION 14: Transport information

14.1 UN-Number

- **ADR, ADN, IMDG, IATA :** Not classified as hazardous for transport.

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14.2 UN proper shipping name

· ADR, ADN, IMDG, IATA : Not classified as hazardous for transport.

14.3 Transport hazard class(es)

· ADR, ADN, IMDG, IATA

· Class : Not classified as hazardous for transport.

14.4 Packing group

· ADR, IMDG, IATA : Not classified as hazardous for transport.

14.5 Environmental hazards :

Not applicable.

14.6 Special precautions for user :

Not applicable.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code :

Not applicable.

· UN "Model Regulation":

Not classified as hazardous for transport.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the mixture :

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I : None of the ingredients is listed.

15.2 Chemical safety assessment :

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases :

H302 Harmful if swallowed

H335 May cause respiratory irritation

· Abbreviations and acronyms :

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent


PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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

1.1 Product identifier

- Trade name: CHROMagar™ Enterobacteria sup. S1

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

No further relevant information available.

- Application of the substance / the preparation : Reagent for Laboratory Use

1.3 Details of the supplier of the safety data sheet

- Manufacturer/Supplier:

CHROMagar
 4, place du 18 Juin 1940 - 75006 Paris
 Tel: +33 1 45 48 05 05
 Email : chromagar@chromagar.com

1.4 Emergency telephone number:

France (ORFILA 24h/24) - Tel : +33 (0)1 45 42 59 59

Ireland - Tel : 00 353 1 8092568 - 00 353 1 8379964 (24h/24) EU Tel: 112

Belgique - Tel : 32 070/245 245

UK : 111 (NHS) / 0345 300 9923 (HSE)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

- Classification according to Regulation (EC) No 1272/2008 :

The product is not classified according to the CLP regulation.

2.2 Label elements

- Labelling according to Regulation (EC) No 1272/2008 : Not classified as hazardous
- Hazard pictograms : Not classified as hazardous
- Signal word : Not classified as hazardous
- Hazard statements : Not classified as hazardous

2.3 Other hazards

- Results of PBT and vPvB assessment

- PBT: Not applicable.
- vPvB: Not applicable.

SECTION 3: Composition / information on ingredients


3.2 Mixtures

- Description : Mixture: consisting of the following components.
- Dangerous components : Not classified as hazardous
- SVHC : No
- Additional information : For the wording of the listed risk phrases, refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General information : Position and transport stably in side position.
 In case of irregular breathing or respiratory arrest provide artificial respiration.

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- **After excessive inhalation :** Provide fresh air; consult a doctor in case of medical complaints.
- **After skin contact :** Generally the product does not irritate the skin.
In the event of irritation, to withdraw soiled clothing, to wash the parts reached with soapy water, to rinse with large water.
If skin irritation continues, consult a doctor.
- **After eye contact :** Rinse opened eye for several minutes under running water.
- **After swallowing :** Do not induce vomiting; call for medical help immediately.

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

No further relevant information available.

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

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture : No further relevant information available.

5.3 Advice for firefighters

- **Protective equipment :** No special measures required.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures :

No special measures required.

6.2 Environmental precautions :

Do not allow product to reach sewage system or any water course. Dilute with plenty of water.

6.3 Methods and material for containment and cleaning up :

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

6.4 Reference to other sections :

See Section 7 for information on safe handling.

See Section 8 for information on personal protective equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling :

No special measures required.

- **Information about fire - and explosion protection:**

No special measures required.

7.2 Conditions for safe storage, including any incompatibilities :

- **Storage :**

· **Requirements to be met by storerooms and receptacles :** Store away from light and moisture.


· **Information about storage in one common storage facility :** Not required.

· **Further information about storage conditions :** Protect from frost.

· **Recommended storage temperature :** 2-8°C

7.3 Specific end use(s) :

No further relevant information available.

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SECTION 8: Exposure controls / personal protection

· **Additional information about design of technical facilities :** No further data; see section 7.

8.1 Control parameters

· **Ingredients with limit values that require monitoring at the workplace :**

The product does not contain any significant quantities of materials with critical values that have to be monitored at the workplace.

· **Additional information :**

The most current valid lists have been used as a basis for the production of this document.

8.2 Exposure controls

· **Personal protective equipment :**

· **General protective and hygienic measures :**

The usual precautionary measures are to be adhered to when handling chemicals.

Respiratory protection : In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.



Protection of hands : Protective gloves.
EN374 gloves for chemicals.



Gloves material : Butyl rubber, BR.

Eye protection : Safety glasses.



Body protection : Protective work clothing.



SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

· **General Information**

· **Appearance :**

Form : Liquid
Colour : Transparent and colourless

· **Odour :** Characteristic

· **Odour threshold :** Not determined.


· **pH-value :** Not determined.

· **Change in condition**

Melting point/Melting range : Not available.

Boiling point/Boiling range : Approximately that of water

· **Flash point :** Not applicable.

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· Flammability (solid, gaseous) :	Not determined.
· Ignition temperature:	Not applicable.
· Decomposition temperature:	Not determined.
· Self-igniting :	Product is not self igniting.
· Danger of explosion :	Product does not present an explosion hazard.
· Explosion limits :	
Lower :	Not determined.
Upper :	Not determined.
· Vapour pressure :	Not determined.
· Density at 20°C :	Approximately that of water
· Relative density :	Not determined.
· Vapour density :	Not determined.
· Evaporation rate :	Not determined.
· Solubility in / Miscibility with water :	Soluble in water.
· Segregation coefficient (n-octanol/water) :	Not determined.
· Viscosity:	
Dynamic :	Not determined.
Kinematic :	Not determined.
9.2 Other information :	No further relevant information available.

SECTION 10: Stability and reactivity


10.1 Reactivity :	No further relevant information available.
10.2 Chemical stability :	
· Thermal decomposition / conditions to be avoided :	No decomposition if used and stored according to specifications.
10.3 Possibility of hazardous reactions :	No dangerous reactions known.
10.4 Conditions to avoid :	No further relevant information available.
10.5 Incompatible materials :	No further relevant information available.
10.6 Hazardous decomposition products :	No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

· Acute toxicity :	Based on available data, the classification criteria are not met.
· Primary irritant effect :	
· On the skin :	Based on available data, the classification criteria are not met.
· On the eyes :	Based on available data, the classification criteria are not met.
· Respiratory or skin sensitisation :	Based on available data, the classification criteria are not met.
· CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction) :	
· Germ cell mutagenicity :	Based on available data, the classification criteria are not met.
· Reproductive toxicity :	Based on available data, the classification criteria are not met.
· STOT-single exposure :	Based on available data, the classification criteria are not met.
· STOT-repeated exposure :	Based on available data, the classification criteria are not met.
· Aspiration hazard :	Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

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12.1 Toxicity

· **Aquatic toxicity :** No further relevant information available.

12.2 Persistence and degradability : No further relevant information available.

12.3 Bioaccumulative potential : No further relevant information available.

12.4 Mobility in soil : No further relevant information available.

· **Additional ecological information:**

· **General notes :** Water hazard class 1 (German Regulation)
 (Self-assessment) : slightly hazardous for water.
 Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB assessment

· **PBT :** Not applicable.

· **vPvB :** Not applicable.

12.6 Other adverse effects : No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

· **Recommendation :** Must be specially treated according to official regulations.

· **Uncleaned packaging :**

· **Recommendation :** Disposal must be made according to official regulations

SECTION 14: Transport information

14.1 UN-Number

· **ADR, ADN, IMDG, IATA :** Void

14.2 UN proper shipping name

· **ADR, ADN, IMDG, IATA :** Void

14.3 Transport hazard class(es)

· **ADR, ADN, IMDG, IATA**

· **Class :** Void

14.4 Packing group

· **ADR, IMDG, IATA :** Void

14.5 Environmental hazards : Not applicable.

14.6 Special precautions for user : Not applicable.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code :


Not applicable.

· **UN "Model Regulation":** Void

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the mixture :

· **Directive 2012/18/EU**

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· **Named dangerous substances - ANNEX I :** None of the ingredients is listed.

15.2 Chemical safety assessment : A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

All products may present unknown hazards and should be used with caution.

This item is for professional use only.

· **Abbreviations and acronyms :**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the

International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances


ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

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

1.1 Product identifier

· Trade name : CHROMagar™ Enterobacteria sup. S2

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

No further relevant information available.

· Application of the substance / the preparation : Reagent for Laboratory Use

1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier :

CHROMagar
 4, place du 18 Juin 1940 - 75006 Paris
 Tel: +33 1 45 48 05 05
 Email : chromagar@chromagar.com

1.4 Emergency telephone number :

France (ORFILA 24h/24) - Tel : +33 (0)1 45 42 59 59

Ireland - Tel : 00 353 1 8092568 - 00 353 1 8379964 (24h/24) EU Tel: 112

Belgique - Tel : 32 070/245 245

UK : 111 (NHS) / 0345 300 9923 (HSE)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008 :



GHS08 : Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.



GHS07 : Skin Sens. 1 H317 May cause an allergic skin reaction.

2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008 :

The product is classified and labelled according to the CLP regulation

· Hazard pictograms :



GHS08

Danger

· Signal word :

· Hazard-determining components of labelling :

β-lactam antibiotic

Vancomycin hydrochloride

· Hazard statements :

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

H317 : May cause an allergic skin reaction.

· Precautionary statements :


P284 : In case of inadequate ventilation wear respiratory protection.

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

P280 : Wear protective gloves/protective clothing/eye protection/face 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.

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P337 + P313 : If eye irritation persists: Get medical advice/attention.
 P302 + P352 : If on skin wash with plenty of water.
 P363 : Wash contaminated clothing before reuse.
 P501 : Dispose of contents/container in accordance with local/regional/national/international regulations.

- Labelling of packages where the contents do not exceed 125 ml
- Hazard pictograms



GHS08

- Signal word : Danger
- Hazard-determining components of labelling :

β-lactam antibiotic
 Vancomycin hydrochloride

- Hazard statements :

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

H317 : May cause an allergic skin reaction.

- Precautionary statements :

P284 : In case of inadequate ventilation wear respiratory protection.

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

P280 : Wear protective gloves/protective clothing/eye protection/face 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.

P337 + P313 : If eye irritation persists: Get medical advice/attention.

P302 + P352 : If on skin wash with plenty of water.

P363 : Wash contaminated clothing before reuse.

P501 : Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

- Results of PBT and vPvB assessment

· PBT : Not applicable.


· vPvB : Not applicable.


SECTION 3: Composition / information on ingredients

3.2 Mixtures

· Description : Mixture: consisting of the following components.

- Dangerous components :


CAS: 1404-93-9 ELINCS: 215-772-6		Vancomycine, HCl Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	1-5%
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CAS: EINECS:		β-lactam antibiotic Skin Sens. 1, H317	1-5%
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- SVHC : No
- Additional information : For the wording of the listed risk phrases, refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

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- **General information :** Position and transport stably in side position.
In case of irregular breathing or respiratory arrest provide artificial respiration.
- **After excessive inhalation :** Provide fresh air; consult a doctor in case of medical complaints.
- **After skin contact :** Generally the product does not irritate the skin.
In the event of irritation, to withdraw soiled clothing, to wash the parts reached with soapy water, to rinse with large water.
If skin irritation continues, consult a doctor.
- **After eye contact :** Rinse opened eye for several minutes under running water.
- **After swallowing :** Do not induce vomiting; call for medical help immediately.

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

No further relevant information available.

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

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Suitable extinguishing agents :

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture : No further relevant information available.

5.3 Advice for firefighters

- **Protective equipment :** No special measures required.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures :

No special measures required. Avoid formation of dust.

6.2 Environmental precautions :

Do not allow product to reach sewage system or any water course. Dilute with plenty of water.

6.3 Methods and material for containment and cleaning up : Pick up mechanically.

6.4 Reference to other sections :

See Section 7 for information on safe handling.
See Section 8 for information on personal protective equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling :

Keep away from heat and direct sunlight.
Thorough dedusting.

- **Information about fire - and explosion protection :** No special measures required.


7.2 Conditions for safe storage, including any incompatibilities :

· Storage :

- **Requirements to be met by storerooms and receptacles :** Store away from light and moisture.
No special requirements.

· **Information about storage in one common storage facility :** Not required.

- **Further information about storage conditions :** Store in cool,

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· **Recommended storage temperature :** dry conditions in well sealed receptacles.
2-8°C

7.3 Specific end use(s) : No further relevant information available.

SECTION 8: Exposure controls / personal protection

· **Additional information about design of technical facilities :** No further data; see section 7.

8.1 Control parameters

· **Ingredients with limit values that require monitoring at the workplace :**

The product does not contain any significant quantities of materials with critical values that have to be monitored at the workplace.

· **Additional information :**

The most current valid lists have been used as a basis for the production of this document.

8.2 Exposure controls

· **Personal protective equipment :**

· **General protective and hygienic measures :**

The usual precautionary measures are to be adhered to when handling chemicals.

Respiratory protection : In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.



Protection of hands : Protective gloves.
EN374 gloves for chemicals.



Gloves material : Butyl rubber, BR
Eye protection : Safety glasses.



Body protection : Protective work clothing.



SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

· **General Information**


· **Appearance :**

Form : Freeze-dried Powder

Colour : White-gray

· **Odour :** Characteristic

· **Odour threshold :** Not determined.

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· pH-value :	Not applicable.
· Change in condition	
Melting point/Melting range :	Undetermined.
Boiling point/Boiling range :	Undetermined.
· Flash point :	Not applicable.
· Flammability (solid, gaseous) :	Not determined.
· Ignition temperature :	Not applicable.
· Decomposition temperature :	Not determined.
· Self-igniting :	Product is not self igniting.
· Danger of explosion :	Product does not present an explosion hazard.
· Explosion limits :	
Lower :	Not determined.
Upper :	Not determined.
· Vapour pressure :	Not applicable.
· Density at 20°C :	Not determined.
· Relative density :	Not determined.
· Vapour density :	Not applicable.
· Evaporation rate :	Not applicable.
· Solubility in / Miscibility with water :	Fully soluble.
· Segregation coefficient (n-octanol/water) :	Not determined.
· Viscosity :	
Dynamic :	Not applicable.
Kinematic :	Not applicable.
9.2 Other information :	No further relevant information available.


SECTION 10: Stability and reactivity

10.1 Reactivity :	No further relevant information available.
10.2 Chemical stability :	
· Thermal decomposition / conditions to be avoided :	No decomposition if used according to specifications.
10.3 Possibility of hazardous reactions :	No dangerous reactions known.
10.4 Conditions to avoid :	No further relevant information available.
10.5 Incompatible materials :	No further relevant information available.
10.6 Hazardous decomposition products :	No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

· Acute toxicity :	Based on available data, the classification criteria are not met.
· Primary irritant effect :	
· On the skin :	Based on available data, the classification criteria are not met.
· On the eyes :	Based on available data, the classification criteria are not met.
· Respiratory or skin sensitisation :	May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
· CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction) :	
· Germ cell mutagenicity :	Based on available data, the classification criteria are not met.

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- **Reproductive toxicity :** Based on available data, the classification criteria are not met.
- **STOT-single exposure :** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure :** Based on available data, the classification criteria are not met.
- **Aspiration hazard :** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1 Toxicity

- **Aquatic toxicity :** No further relevant information available.

- **12.2 Persistence and degradability :** No further relevant information available.

- **12.3 Bioaccumulative potential :** No further relevant information available.

- **12.4 Mobility in soil :** No further relevant information available.

- **Additional ecological information :**

- **General notes :** Water hazard class 1 (German Regulation)
(Self-assessment) : slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB assessment

- **PBT :** Not applicable.

- **vPvB :** Not applicable.

- **12.6 Other adverse effects :** No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- **Recommendation :** Must be specially treated according to official regulations..

- **Uncleaned packaging :**

- **Recommendation :** Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN-Number

- **ADR, ADN, IMDG, IATA :** Void

14.2 UN proper shipping name

- **ADR, ADN, IMDG, IATA :** Void

14.3 Transport hazard class(es)

- **ADR, ADN, IMDG, IATA**

- **Class :** Void

14.4 Packing group


- **ADR, IMDG, IATA :** Void

- **14.5 Environmental hazards :** Not applicable.

- **14.6 Special precautions for user :** Not applicable.

- **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code :**

Not applicable.

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· UN "Model Regulation": Void

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the mixture :

- Directive 2012/18/EU
- Named dangerous substances - ANNEX I : None of the ingredients is listed.

15.2 Chemical safety assessment : A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases :

- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H319: Causes serious eye irritation.
- H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335: May cause respiratory irritation.

· Abbreviations and acronyms :

- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association.
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- PBT: Persistent, Bioaccumulative and Toxic
- SVHC: Substances of Very High Concern
- vPvB: very Persistent and very Bioaccumulative
- Acute Tox. 4: Acute toxicity, Hazard Category 4
- Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1
- Skin Sens. 1: Sensitisation - Skin, Hazard Category 1