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

### 1.1 Product identifier

· **Trade name: CHROMagar™ C.perfringens base**

### 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: 497-19-8

sodium carbonate


≤ 2,5%

EINECS: 207-838-8

 Eye Irrit. 2, H319

Index number: 011-005-00-2

Reg.nr.: 01-2119485498-19


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CAS: 7757-79-1

potassium nitrate

≤ 2,5%

EINECS: 231-818-8

 Ox. Sol. 2, H272

RTECS : TT3700000

- **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:

CO<sub>2</sub>, 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.

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## 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, 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.



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**Body protection :** Protective work clothing.



## 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/cm<sup>3</sup>

· 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.

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**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.

· **LD/LC50 values relevant for classification:**

<b>CAS: 497-19-8</b>		<b>sodium carbonate</b>
Oral	LD50	2800 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rabbit)
Inhalative	LD50/4h	2.3 mg/l (rat)
<b>CAS: 7757-79-1</b>		<b>potassium nitrate</b>
Oral	LD50	3750 mg/kg (rat)

· **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 :**

<b>CAS: 497-19-8</b>		<b>sodium carbonate</b>
EC50	48h	220 mg/l (daphnia)
EC50	96h	300 mg/l (fish)

**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.

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### 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.

#### 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 :**

H272 May intensify fire; oxidiser.  
H319 Causes serious eye 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

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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

Ox. Sol. 2: Oxidizing solids – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2SVHC: 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™ C.perfringens supplement 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 (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 life-threatening 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 :**



GHS07 : Eye Irrit. 2H319 Causes serious eye irritation.

### 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 :**



GHS07

· **Signal word :**

Warning

· **Hazard statements :**

H319 Causes serious eye irritation

· **Precautionary statements :**

P280 Wear eye protection / face protection.

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

### 2.3 Other hazards


· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.





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#### 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, dry conditions in well sealed receptacles.
- **Recommended storage temperature :** 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 :**

<b>CAS: 1185-57-5</b>	<b>ammonium iron(III) citrate (50-100%)</b>
WEL (Great Britain)	Short-term value : 2 mg/m <sup>3</sup> Long-term value : 1 mg/m <sup>3</sup> as Fe
MAK (Switzerland)	Long-term value : 1e mg/m <sup>3</sup> Als Fe berechnet

- **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.



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**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 : Powder

Colour : Brown

· 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/cm<sup>3</sup>

· Relative density : Not determined.

· Vapour density : Not applicable.

· Evaporation rate : Not applicable.

· Solubility in / Miscibility with water : 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.

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## 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.

- **LD/LC50 values relevant for classification:**

**CAS: 497-19-8 sodium carbonate**

Oral	LD50	2800 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rabbit)
Inhalative	LD50/4h	2.3 mg/l (rat)

- **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 :**

**CAS: 497-19-8 sodium carbonate**

EC50	48h	220 mg/l (daphnia)
EC50	96h	300 mg/l (fish)

**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 :** Generally not hazardous for water.

### 12.5 Results of PBT and vPvB assessment

- **PBT :** Not applicable.

- **vPvB :** Not applicable.

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

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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

- **Recommendation :** Must be specially treated according to official regulations.
- **European waste catalogue :** HP 4 Irritant – skin irritation and eye damage.
- **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.

#### 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 :**

H319 Causes serious eye irritation.


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

Serious eye damage/eye irritation : The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

#### · **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

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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

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

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

### 1.1 Product identifier

· **Trade name: CHROMagar™ C.perfringens supplement 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 (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 life-threatening 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: 1405-20-5

Polymixin B, sulfate (salt)


10-25%

EINECS: 215-774-7

 Acute Tox. 4, H302

· **SVHC :** No

· **Additional information :** For the wording of the listed risk phrases, refer to section 16.

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## 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:

CO<sub>2</sub>, 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.

### 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 :**



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- **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 :** 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**

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· <b>Appearance :</b>	
<b>Form :</b>	Powder
<b>Colour :</b>	White
· <b>Odour :</b>	Characteristic
· <b>Odour threshold :</b>	Not determined.
· <b>pH-value :</b>	Not applicable.
· <b>Change in condition</b>	
<b>Melting point/Melting range :</b>	Undetermined.
<b>Boiling point/Boiling range :</b>	Undetermined.
· <b>Flash point :</b>	Not applicable.
· <b>Flammability (solid, gaseous) :</b>	Not determined.
· <b>Ignition temperature:</b>	Not applicable.
· <b>Decomposition temperature:</b>	Not determined.
· <b>Self-igniting :</b>	Product is not self igniting.
· <b>Danger of explosion :</b>	Product does not present an explosion hazard.
· <b>Explosion limits :</b>	
<b>Lower :</b>	Not determined.
<b>Upper :</b>	Not determined.
· <b>Vapour pressure :</b>	Not applicable.
· <b>Density at 20°C :</b>	0.5 +/- 0.1 g/cm <sup>3</sup>
· <b>Relative density :</b>	Not determined.
· <b>Vapour density :</b>	Not applicable.
· <b>Evaporation rate :</b>	Not applicable.
· <b>Solubility in / Miscibility with water :</b>	Soluble.
· <b>Segregation coefficient (n-octanol/water) :</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic :</b>	Not applicable.
<b>Kinematic :</b>	Not applicable.
<b>9.2 Other information :</b>	No further relevant information available.


## SECTION 10: Stability and reactivity

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

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

· <b>Acute toxicity :</b>	Based on available data, the classification criteria are not met.
· <b>LD/LC50 values relevant for classification:</b>	
<b>CAS: 1405-20-5</b>	<b>Polymixin B, sulfate (salt)</b>
Oral LD50	500 mg/kg (ATE)

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- **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 :** Generally not hazardous for water.

### 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.

### 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.

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- 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.

### · 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, Hazard Category 4