# Safety data sheet



## Manufacturer/Supplier:

biotechrabbit GmbH, Volmerstr. 9, 12489 Berlin, Germany

Office: +49 (0) 30 555 78 21 0, Fax: +49 (0) 30 555 78 21 99, Email: sds@biotechrabbit.com

Trade name: GenUP™ Blood RNA Kit

Catalog number: BR07014--

(where "--" is any number from 00 to 99 for different package sizes)

Kit components: K00125 Buffer LYSIS LE

K00128 Buffer LYSIS LRK00135 Buffer WASH AK00136 Buffer WASH B

K00146 Water, RNase-free (for ELUTION)



Printing date: 29.03.2019 Version number: 4 Revision: 29.03.2019

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

1.1 Product identifier

Trade name: Buffer LYSIS LE (K00125)

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:** Laboratory chemicals

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: biotechrabbit GmbH

Volmerstr. 9 12489 Berlin Germany

Office: +49 (0) 30 555 78 21 0 Fax: +49 (0) 30 555 78 21 99 Email: sds@biotechrabbit.com www.biotechrabbit.com

Further information obtainable from: biotechrabbit GmbH

1.4 Emergency telephone number:

Giftinformationszentrum-Nord / GIZ-Nord Poisons Centre

Telefon / Phone +49 (0) 551-19240

24h / 7d

For Hazardous Materials [or Dangerous Goods] Incident

Spill, Leak, Fire, Exposure, or Accident

Call CHEMTREC Day or Night

Within USA and Canada: 1-800-424-9300

Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

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

## 2.1 Classification of the substance or mixture:

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



GHS07

Eye Irrit. 2 H319 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:**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

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P264 Wash thoroughly after handling. 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.

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

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 Chemical characterisation: Mixtures

**Description:** Mixture of substances listed below with nonhazardous additions.

**Dangerous components:** 

CAS: 12125-02-9 ammonium chloride

>25-≤50%

EINECS: 235-186-4 ( Acute Tox. 4, H302; Eye Irrit. 2, H319

Additional information: For the wording of the listed hazard phrases refer to section 16.

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

#### 4.1 Description of first aid measures:

### **General information:**

Take affected persons out into the fresh air. Do not leave affected persons unattended.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact:

Rinse opened eye for several minutes under running water.

Call a doctor immediately.

After swallowing: Call a doctor 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 Extinguishing media:

## Suitable extinguishing agents:

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

For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture:

Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for firefighters:

Protective equipment:

Mouth respiratory protective device.

Do not inhale explosion gases or combustion gases.

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

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

Wear protective clothing.

Use respiratory protective device against the effects of fumes/dust/aerosol.

**6.2 Environmental precautions:** Do not allow product to reach sewage system or any water course.

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

Ensure adequate ventilation.

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 protection equipment.

See Section 13 for disposal information.

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

#### 7.1 Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Store in cool, dry place in tightly closed receptacles.

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 only in the original receptacle.

Information about storage in one common storage facility: Store away from foodstuffs.

### Further information about storage conditions:

Keep container tightly sealed.

Store receptacle in a well ventilated area.

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 item 7.

#### 8.1 Control parameters:

Ingredients with limit values that require monitoring at the workplace:

#### 12125-02-9 ammonium chloride

WEL Short-term value: 20 mg/m³ Long-term value: 10 mg/m³

## 8.2 Exposure controls:

#### Personal protective equipment:

### General protective and hygienic measures:

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

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Respiratory protection: Not necessary if room is well-ventilated.

Protection of hands: Protective gloves

Material of gloves: Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.35 mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

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Trade name: Buffer LYSIS LE (K00125)

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Penetration time of glove material:

The exact break through time has to be found out by the manufacturer of the protective gloves and has to

be observed.

Eye protection: Tightly sealed goggles

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

9.1 Information on basic physical and chemical properties:

**General Information:** 

Appearance:

Form: Fluid
Colour: Colourless
Odour: Characteristic
Odour threshold: Not determined.
pH-value: Not determined.

Change in condition:

Melting point/freezing point: Undetermined.

Initial boiling point and boiling range: 100 °C

Flash point:

Flammability (solid, gas):

Not applicable.

Not applicable.

Not determined.

**Auto-ignition temperature:** Product is not selfigniting.

**Explosive properties:** Product does not present an explosion hazard.

**Explosion limits:** 

Lower: Not determined. Upper: Not determined.

Vapour pressure at 20 °C: 23 hPa

Density:Not determined.Relative density:Not determined.Vapour density:Not determined.Evaporation rate:Not determined.

Solubility in / Miscibility with

water: Soluble.

Partition 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 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.

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Trade name: Buffer LYSIS LE (K00125)

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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:

#### 12125-02-9 ammonium chloride

Oral LD50 1,650 mg/kg (rat)

**Primary irritant effect:** 

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

CMR effects (carcinogenity, 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:

## European waste catalogue:

Dispose of contents/container in accordance with local/regional/national/international 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

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Trade name: Buffer LYSIS LE (K00125)

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14.3 Transport hazard class(es):

ADR, ADN, IMDG, IATA

Class: Void

14.4 Packing group:

ADR, IMDG, IATA Void

14.5 Environmental hazards:

Marine pollutant: No

**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 substance or mixture: No further relevant information available.

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 65

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.

H319 Causes serious eye irritation.

#### **Training hints:**

Employees who use the product have to be trained on risks for health, hygiene, use of individual protection, accident preventive actions, rescue actions, etc.,

### **Department issuing SDS:**

ADEEGO GmbH

Wildsteig 4A

D-42113 Wuppertal

Tel. +49 (0) 202 2575700 Fax. +49 (0) 202 2575701

Email: mail@adeego.de

www.adeego.de

Contact: Dr. Axel Deeg

## 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

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity - Category 4

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



Printing date: 29.03.2019 Version number: 5 Revision: 29.03.2019

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

#### 1.1 Product identifier

Trade name: Buffer LYSIS LR (K00128)

#### 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:** Laboratory chemicals

### 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: biotechrabbit GmbH

Volmerstr. 9 12489 Berlin Germany

Office: +49 (0) 30 555 78 21 0 Fax: +49 (0) 30 555 78 21 99 Email: sds@biotechrabbit.com www.biotechrabbit.com

Further information obtainable from: biotechrabbit GmbH

1.4 Emergency telephone number:

Giftinformationszentrum-Nord / GIZ-Nord Poisons Centre

Telefon / Phone +49 (0) 551-19240

24h / 7d

For Hazardous Materials [or Dangerous Goods] Incident

Spill, Leak, Fire, Exposure, or Accident

Call CHEMTREC Day or Night

Within USA and Canada: 1-800-424-9300

Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

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

## 2.1 Classification of the substance or mixture:

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



GHS05 corrosion

Skin Corr. 1C H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.



Acute Tox. 4 H302 Harmful if swallowed.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

#### 2.2 Label elements:

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

The product is classified and labelled according to the CLP regulation.

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#### Hazard pictograms:





GHS05 GHS07

Signal word: Danger

## Hazard-determining components of labelling:

guanidinium thiocyanate **Hazard statements:** 

H302 Harmful if swallowed.

H302 Harmiul II Swallowed.

H314 Causes severe skin burns and eye damage. H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements:** 

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.
P103 Read label before use.
P260 Do not breathe dusts or mists.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P405 Store locked up.

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

regulations.

Additional information:

EUH032 Contact with acids liberates very toxic gas.

2.3 Other hazards:

Results of PBT and vPvB assessment:

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

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

3.2 Chemical characterisation: Mixtures

**Description:** Mixture of substances listed below with nonhazardous additions.

**Dangerous components:** 

CAS: 593-84-0 guanidinium thiocyanate

>25-≤50%

EINECS: 209-812-1 📀 Skin Corr. 1C, H314; 🕦 Acute Tox. 4, H302; Acute Tox. 4, H312; Acute

Tox. 4, H332; Aquatic Chronic 3, H412

Additional information: For the wording of the listed hazard phrases refer to section 16.

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

#### 4.1 Description of first aid measures:

## **General information:**

Take affected persons out into the fresh air. Do not leave affected persons unattended.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Seek medical treatment.

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Trade name: Buffer LYSIS LR (K00128)

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#### After eye contact:

Rinse opened eye for several minutes under running water.

Call a doctor immediately.

After swallowing: Call a doctor 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 Extinguishing media:

Suitable extinguishing agents:

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

For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture:

Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for firefighters:

Protective equipment:

Do not inhale explosion gases or combustion gases.

Mouth respiratory protective device.

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

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

Ensure adequate ventilation.

Keep away from ignition sources.

Wear protective clothing.

**6.2 Environmental precautions:** Do not allow product to reach sewage system or any water course.

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

Ensure adequate ventilation.

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 protection equipment.

See Section 13 for disposal information.

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

### 7.1 Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Store in cool, dry place in tightly closed receptacles.

Information about fire - and explosion protection: Keep ignition sources away - Do not smoke.

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

Storage:

Requirements to be met by storerooms and receptacles: Store only in the original receptacle.

Information about storage in one common storage facility:

Do not store together with acids.

Store away from oxidising agents.

Store away from foodstuffs.

Further information about storage conditions: Keep container tightly sealed.

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

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Trade name: Buffer LYSIS LR (K00128)

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

Additional information about design of technical facilities: No further data; see item 7.

#### 8.1 Control parameters:

#### Ingredients with limit values that require monitoring at the workplace:

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

### 8.2 Exposure controls:

# Personal protective equipment:

## General protective and hygienic measures:

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

Immediately remove all soiled and contaminated clothing.

Do not inhale gases / fumes / aerosols.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Respiratory protection: Not necessary if room is well-ventilated.

Protection of hands: Protective gloves

#### Material of gloves: Nitrile rubber. NBR

Recommended thickness of the material: ≥ 0.35 mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

## Penetration time of glove material:

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Tightly sealed goggles

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

## 9.1 Information on basic physical and chemical properties:

**General Information:** 

Appearance:

Form: Fluid Colour: Clear

Odour: Characteristic
Odour threshold: Not determined.

pH-value: Not determined.

Change in condition:

Melting point/freezing point: Undetermined. Initial boiling point and boiling range: Undetermined.

Flash point: Not applicable.

Flammability (solid, gas): Not determined.

Decomposition temperature: Not determined.

**Auto-ignition temperature:** Product is not selfigniting.

**Explosive properties:** Product does not present an explosion hazard.

**Explosion limits:** 

**Lower:** Not determined. **Upper:** Not determined.

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Trade name: Buffer LYSIS LR (K00128)

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Vapour pressure at 20 °C: 23 hPa

Density:Not determined.Relative density:Not determined.Vapour density:Not determined.Evaporation rate:Not determined.

Solubility in / Miscibility with

water: Soluble.

Partition 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 according to specifications.

10.3 Possibility of hazardous reactions: Contact with acids releases toxic gases.

**10.4 Conditions to avoid:** No further relevant information available.

**10.5 Incompatible materials:** No further relevant information available.

10.6 Hazardous decomposition products:

Corrosive gases/vapours Poisonous gases/vapours

Carbon monoxide and carbon dioxide

## **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects:

**Acute toxicity** 

Harmful if swallowed.

LD/LC50 values relevant for classification:

593-84-0 guanidinium thiocyanate

Oral LD50 593 mg/kg (rat)

Primary irritant effect:

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Causes serious eye damage.

**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

CMR effects (carcinogenity, 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.

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Trade name: Buffer LYSIS LR (K00128)

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## **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 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

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:

### European waste catalogue:

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

#### Uncleaned packaging:

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

## **SECTION 14: Transport information**

14.1 UN-Number:

ADR, IMDG, IATA UN1760

14.2 UN proper shipping name:

ADR 1760 CORROSIVE LIQUID, N.O.S. (guanidinium

thiocyanate)

IMDG, IATA CORROSIVE LIQUID, N.O.S. (guanidinium thiocyanate)

14.3 Transport hazard class(es):

ADR, IMDG, IATA



Class: 8 Corrosive substances.

Label: 8

14.4 Packing group:

ADR, IMDG, IATA

14.5 Environmental hazards:

Marine pollutant: No

**14.6 Special precautions for user:** Warning: Corrosive substances.

Danger code (Kemler): 80

EMS Number: F-A,S-B

Stowage Category A

Stowage Code SW2 Clear of living quarters.

14.7 Transport in bulk according to Annex II of

Marpol and the IBC Code Not applicable.

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Trade name: Buffer LYSIS LR (K00128)

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**Transport/Additional information:** 

**ADR** 

Limited quantities (LQ): 5L
Transport category: 3
Tunnel restriction code: E

UN 1760 CORROSIVE LIQUID, N.O.S. (GUANIDINIUM

THIOCYANATE), 8, III

## **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture: REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

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.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H332 Harmful if inhaled.

H412 Harmful to aquatic life with long lasting effects.

#### **Training hints:**

Employees who use the product have to be trained on risks for health, hygiene, use of individual protection, accident preventive actions, rescue actions, etc.,

## **Department issuing SDS:**

ADEEGO GmbH

Wildsteig 4A

D-42113 Wuppertal

Tel. +49 (0) 202 2575700 Fax. +49 (0) 202 2575701 Email: mail@adeego.de

www.adeego.de

Contact: Dr. Axel Deeg

#### 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

vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1C: Skin corrosion/irritation – Category 1C

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3



Printing date: 29.03.2019 Version number: 5 Revision: 29.03.2019

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

#### 1.1 Product identifier

Trade name: Buffer WASH A (K00135)

#### 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:** Laboratory chemicals

### 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: biotechrabbit GmbH Volmerstr. 9

12489 Berlin Germany

Office: +49 @D\$0 555 \( \tilde{R} \) 1 0 Fax: +49 @D\$0 555 \( \tilde{R} \) 21 99 Email: sds@biotechrabbit.com www.biotechrabbit.com

Further information obtainable from: biotechrabbit GmbH

1.4 Emergency telephone number:

Giftinformationszentrum-Nord / GIZ-Nord Poisons Centre

Telefon / Phone +49 (0) 551-19240

24h / 7d

For Hazardous Materials [or Dangerous Goods] Incident

Spill, Leak, Fire, Exposure, or Accident

Call CHEMTREC Day or Night

Within USA and Canada: 1-800-424-9300

Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

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

## 2.1 Classification of the substance or mixture:

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



GHS05 corrosion

Skin Corr. 1C H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.



Acute Tox. 4 H302 Harmful if swallowed.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

#### 2.2 Label elements:

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

The product is classified and labelled according to the CLP regulation.

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#### Hazard pictograms:





GHS05 GHS07

Signal word: Danger

## Hazard-determining components of labelling:

guanidinium thiocyanate **Hazard statements:** 

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage. H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements:** 

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children. P103 Read label before use.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P405 Store locked up.

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

regulations.

Additional information:

EUH032 Contact with acids liberates very toxic gas.

2.3 Other hazards:

Results of PBT and vPvB assessment:

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

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

3.2 Chemical characterisation: Mixtures

**Description:** Mixture of substances listed below with nonhazardous additions.

**Dangerous components:** 

CAS: 593-84-0 guanidinium thiocyanate

25-50%

EINECS: 209-812-1 Skin Corr. 1C, H314; Acute Tox. 4, H302; Acute Tox. 4, H312; Acute

Tox. 4, H332; Aquatic Chronic 3, H412

Additional information: For the wording of the listed hazard phrases refer to section 16.

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

#### 4.1 Description of first aid measures:

## **General information:**

Take affected persons out into the fresh air. Do not leave affected persons unattended.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Seek medical treatment.

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Trade name: Buffer WASH A (K00135)

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#### After eye contact:

Rinse opened eye for several minutes under running water.

Call a doctor immediately.

After swallowing: Call a doctor 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 Extinguishing media:

Suitable extinguishing agents:

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

For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture:

Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for firefighters:

**Protective equipment:** 

Mouth respiratory protective device.

Do not inhale explosion gases or combustion gases.

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

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

Ensure adequate ventilation.

Keep away from ignition sources.

Wear protective clothing.

**6.2 Environmental precautions:** Do not allow product to reach sewage system or any water course.

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

Ensure adequate ventilation.

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 protection equipment.

See Section 13 for disposal information.

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

### 7.1 Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Store in cool, dry place in tightly closed receptacles.

Information about fire - and explosion protection: Keep ignition sources away - Do not smoke.

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

Storage:

Requirements to be met by storerooms and receptacles: Store only in the original receptacle.

Information about storage in one common storage facility:

Store away from oxidising agents.

Do not store together with acids.

Store away from foodstuffs.

Further information about storage conditions: Keep container tightly sealed.

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

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Trade name: Buffer WASH A (K00135)

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

Additional information about design of technical facilities: No further data; see item 7.

#### 8.1 Control parameters:

#### Ingredients with limit values that require monitoring at the workplace:

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

### 8.2 Exposure controls:

### Personal protective equipment:

## General protective and hygienic measures:

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

Immediately remove all soiled and contaminated clothing.

Do not inhale gases / fumes / aerosols.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Respiratory protection: Not necessary if room is well-ventilated.

Protection of hands: Protective gloves

Material of gloves:

Recommended thickness of the material: ≥ 0.35 mm

Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

## Penetration time of glove material:

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:** Tightly sealed goggles

# SECTION 9: Physical and chemical properties

# 9.1 Information on basic physical and chemical properties:

**General Information:** 

Appearance:

Form: Fluid Colour: Clear

Odour: Characteristic
Odour threshold: Not determined.

pH-value at 20 °C: 7.5

Change in condition:

Melting point/freezing point: Undetermined. Initial boiling point and boiling range: Undetermined.

Flash point: Not applicable.

Flammability (solid, gas): Not determined.

Decomposition temperature: Not determined.

**Auto-ignition temperature:** Product is not selfigniting.

**Explosive properties:** Product does not present an explosion hazard.

**Explosion limits:** 

**Lower:** Not determined. **Upper:** Not determined.

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Trade name: Buffer WASH A (K00135)

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Vapour pressure at 20 °C: 23 hPa

Density:Not determined.Relative density:Not determined.Vapour density:Not determined.Evaporation rate:Not determined.

Solubility in / Miscibility with

water: Soluble.

Partition 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 according to specifications.

10.3 Possibility of hazardous reactions: Contact with acids releases toxic gases.

**10.4 Conditions to avoid:** No further relevant information available.

**10.5 Incompatible materials:** No further relevant information available.

10.6 Hazardous decomposition products:

Corrosive gases/vapours Poisonous gases/vapours

Carbon monoxide and carbon dioxide

## **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects:

**Acute toxicity** 

Harmful if swallowed.

LD/LC50 values relevant for classification:

593-84-0 guanidinium thiocyanate

Oral LD50 593 mg/kg (rat)

Primary irritant effect:

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Causes serious eye damage.

**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

CMR effects (carcinogenity, 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.

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Trade name: Buffer WASH A (K00135)

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## **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 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

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:

### European waste catalogue:

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

#### Uncleaned packaging:

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

## **SECTION 14: Transport information**

14.1 UN-Number:

ADR, IMDG, IATA UN1760

14.2 UN proper shipping name:

ADR 1760 CORROSIVE LIQUID, N.O.S. (guanidinium

thiocyanate)

IMDG, IATA CORROSIVE LIQUID, N.O.S. (guanidinium thiocyanate)

14.3 Transport hazard class(es):

ADR, IMDG, IATA



Class: 8 Corrosive substances.

Label: 8

14.4 Packing group:

ADR, IMDG, IATA III

14.5 Environmental hazards:

Marine pollutant: No

**14.6 Special precautions for user:** Warning: Corrosive substances.

Danger code (Kemler): 80

EMS Number: F-A,S-B

Stowage Category A

Stowage Code SW2 Clear of living quarters.

14.7 Transport in bulk according to Annex II of

Marpol and the IBC Code Not applicable.

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Trade name: Buffer WASH A (K00135)

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#### **Transport/Additional information:**

ADR

Limited quantities (LQ): 5L
Transport category: 3
Tunnel restriction code: E

UN 1760 CORROSIVE LIQUID, N.O.S. (GUANIDINIUM

THIOCYANATE), 8, III

## **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture: REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

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.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H332 Harmful if inhaled.

H412 Harmful to aquatic life with long lasting effects.

#### **Training hints:**

Employees who use the product have to be trained on risks for health, hygiene, use of individual protection, accident preventive actions, rescue actions, etc.,

## **Department issuing SDS:**

ADEEGO GmbH

Wildsteig 4A

D-42113 Wuppertal

Tel. +49 (0) 202 2575700 Fax. +49 (0) 202 2575701 Email: mail@adeego.de

www.adeego.de

Contact: Dr. Axel Deeg

#### 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 vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity - Category 4

Skin Corr. 1C: Skin corrosion/irritation – Category 1C

Eye Dam. 1: Serious eye damage/eye irritation - Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3



Printing date 01.04.2019 Version number 3 Revision: 01.04.2019

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

#### 1.1 Product identifier

Trade name: Buffer WASH B (K00136)

#### 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:** Laboratory chemicals

#### 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: biotechrabbit GmbH

Volmerstr. 9 12489 Berlin

Germany

Office: +49 (0) 30 555 78 21 0 Fax: +49 (0) 30 555 78 21 99 Email: sds@biotechrabbit.com www.biotechrabbit.com

Further information obtainable from: biotechrabbit GmbH

1.4 Emergency telephone number:

Giftinformationszentrum-Nord / GIZ-Nord Poisons Centre

Telefon / Phone +49 (0) 551-19240

24h / 7d

For Hazardous Materials [or Dangerous Goods] Incident

Spill, Leak, Fire, Exposure, or Accident

Call CHEMTREC Day or Night

Within USA and Canada: 1-800-424-9300

Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

## **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: Void

Hazard pictograms: Void

Signal word: Void Hazard statements: Void

2.3 Other hazards:

Results of PBT and vPvB assessment:

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

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

3.2 Chemical characterisation: Mixtures

**Description:** Mixture of substances listed below with nonhazardous additions.

Dangerous components: Void

Additional information: For the wording of the listed hazard phrases refer to section 16.

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Printing date 01.04.2019 Version number 3 Revision: 01.04.2019

Trade name: Buffer WASH B (K00136)

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

#### 4.1 Description of first aid measures:

#### General information:

Take affected persons out into the fresh air. Do not leave affected persons unattended.

After inhalation: Supply fresh air; consult doctor in case of complaints.

#### After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Seek medical treatment.

### After eye contact:

Rinse opened eye for several minutes under running water.

Call a doctor immediately.

After swallowing: Call a doctor 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 Extinguishing media:

#### Suitable extinguishing agents:

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

For safety reasons unsuitable extinguishing agents: Water with full jet

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

Formation of toxic gases is possible during heating or in case of fire.

#### 5.3 Advice for firefighters:

## Protective equipment:

Mouth respiratory protective device.

Do not inhale explosion gases or combustion gases.

# **SECTION 6: Accidental release measures**

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

Ensure adequate ventilation.

Wear protective clothing.

6.2 Environmental precautions: Do not allow product to reach sewage system or any water course.

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

Ensure adequate ventilation.

Absorb liquid components with liquid-binding material.

### 6.4 Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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

## 7.1 Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Store in cool, dry place in tightly closed receptacles.

Information about fire - and explosion protection: Keep ignition sources away - Do not smoke.

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Trade name: Buffer WASH B (K00136)

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

Storage:

Requirements to be met by storerooms and receptacles: Store only in the original receptacle.

Information about storage in one common storage facility:

Store away from oxidising agents.

Store away from foodstuffs.

Further information about storage conditions: Keep container tightly sealed.

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 item 7.

#### 8.1 Control parameters:

## Ingredients with limit values that require monitoring at the workplace:

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

## 8.2 Exposure controls:

#### Personal protective equipment:

## General protective and hygienic measures:

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

Immediately remove all soiled and contaminated clothing.

Do not inhale gases / fumes / aerosols.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

**Respiratory protection:** Not necessary if room is well-ventilated.

Protection of hands: Protective gloves

Material of gloves: Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.35 mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

## Penetration time of glove material:

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:** Tightly sealed goggles

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

## 9.1 Information on basic physical and chemical properties:

**General Information:** 

Appearance:

Form: Fluid
Colour: Colourless
Odour: Mild

Odour threshold: Not determined.

**pH-value**: 7 - 8

Change in condition:

Melting point/freezing point:
Initial boiling point and boiling range: Undetermined.

Flash point:

Not applicable.

Flammability (solid, gas):

Not applicable.

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Trade name: Buffer WASH B (K00136)

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**Decomposition temperature:** Not determined.

**Auto-ignition temperature:** Product is not selfigniting.

**Explosive properties:** Product does not present an explosion hazard.

**Explosion limits:** 

Lower:
Upper:
Not determined.
Not determined.

Vapour pressure:
Not applicable.

Density:
Relative density:
Vapour density:
Not determined.
Not determined.
Not determined.
Not determined.
Not determined.
Not determined.

Solubility in / Miscibility with

water: Soluble.

Partition 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: Carbon monoxide and carbon dioxide

## **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:** 

Skin corrosion/irritation Based on available data, the classification criteria are not met.

**Serious eye damage/irritation** 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 (carcinogenity, 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.

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Trade name: Buffer WASH B (K00136)

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**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

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:

#### European waste catalogue:

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

Marine pollutant: No

**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 substance or 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.

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Printing date 01.04.2019 Version number 3 Revision: 01.04.2019

Trade name: Buffer WASH B (K00136)

(Contd. of page 5)

## **Training hints:**

Employees who use the product have to be trained on risks for health, hygiene, use of individual protection, accident preventive actions, rescue actions, etc.,

## **Department issuing SDS:**

biotechrabbit GmbH

Volmerstr. 9 D-12489 Berlin

Tel. +49 (0) 30 555 78 21 0 Fax. +49 (0) 30 555 78 21 99 Email: sds@biotechrabbit.com www.biotechrabbit.com

Contact: Dr. Bernd Haase
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 vPvB: very Persistent and very Bioaccumulative



Printing date 01.04.2019 Version number 3 Revision: 01.04.2019

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

#### 1.1 Product identifier

Trade name: Water, RNase-free (for Elution) (K00147)

#### 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: Laboratory chemicals

#### 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

biotechrabbit GmbH

Volmerstr. 9 12489 Berlin

Germany

Office: +49 (0) 30 555 78 21 0 Fax: +49 (0) 30 555 78 21 99 Email: sds@biotechrabbit.com

www.biotechrabbit.com

Further information obtainable from: biotechrabbit GmbH

1.4 Emergency telephone number:

Giftinformationszentrum-Nord / GIZ-Nord Poisons Centre

Telefon / Phone +49 (0) 551-19240

24h / 7d

For Hazardous Materials [or Dangerous Goods] Incident

Spill, Leak, Fire, Exposure, or Accident

Call CHEMTREC Day or Night

Within USA and Canada: 1-800-424-9300

Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

## **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: Void

Hazard pictograms: Void

Signal word: Void

Hazard statements: Void

2.3 Other hazards:

Results of PBT and vPvB assessment:

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

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

3.2 Chemical characterisation: Mixtures

**Description:** Mixture of substances listed below with nonhazardous additions.

Dangerous components: Void

Additional information: For the wording of the listed hazard phrases refer to section 16.

(Contd. on page 2)



Printing date 01.04.2019 Version number 3 Revision: 01.04.2019

Trade name: Water, RNase-free (for Elution) (K00147)

(Contd. of page 1)

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

#### 4.1 Description of first aid measures:

#### General information:

Take affected persons out into the fresh air. Do not leave affected persons unattended.

After inhalation: Supply fresh air; consult doctor in case of complaints.

#### After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Seek medical treatment.

#### After eve contact:

Rinse opened eye for several minutes under running water.

Call a doctor immediately.

After swallowing: Call a doctor 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 Extinguishing media:

#### Suitable extinguishing agents:

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

For safety reasons unsuitable extinguishing agents: Water with full jet

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

Formation of toxic gases is possible during heating or in case of fire.

#### 5.3 Advice for firefighters:

## Protective equipment:

Mouth respiratory protective device.

Do not inhale explosion gases or combustion gases.

# **SECTION 6: Accidental release measures**

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

Ensure adequate ventilation.

Wear protective clothing.

6.2 Environmental precautions: Do not allow product to reach sewage system or any water course.

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

Ensure adequate ventilation.

Absorb liquid components with liquid-binding material.

### 6.4 Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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

## 7.1 Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Store in cool, dry place in tightly closed receptacles.

Information about fire - and explosion protection: Keep ignition sources away - Do not smoke.

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

Storage:

Requirements to be met by storerooms and receptacles: Store only in the original receptacle.

Information about storage in one common storage facility:

Store away from oxidising agents.

Store away from foodstuffs.

Further information about storage conditions: Keep container tightly sealed.

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 item 7.

#### 8.1 Control parameters:

## Ingredients with limit values that require monitoring at the workplace:

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

## 8.2 Exposure controls:

#### Personal protective equipment:

## General protective and hygienic measures:

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

Immediately remove all soiled and contaminated clothing.

Do not inhale gases / fumes / aerosols.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

**Respiratory protection:** Not necessary if room is well-ventilated.

Protection of hands: Protective gloves

Material of gloves: Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.35 mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

## Penetration time of glove material:

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:** Tightly sealed goggles

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

## 9.1 Information on basic physical and chemical properties:

**General Information:** 

Appearance:

Form: Fluid
Colour: Colourless
Odour: Mild

Odour threshold: Not determined.

**pH-value**: 7 - 8

Change in condition:

Melting point/freezing point:
Initial boiling point and boiling range: Undetermined.

Flash point:

Not applicable.

Flammability (solid, gas):

Not applicable.

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**Decomposition temperature:** Not determined.

**Auto-ignition temperature:** Product is not selfigniting.

**Explosive properties:** Product does not present an explosion hazard.

**Explosion limits:** 

Lower:
Upper:
Not determined.
Not determined.

Vapour pressure:
Not applicable.

Density:
Relative density:
Vapour density:
Not determined.
Not determined.
Not determined.
Not determined.
Not determined.
Not determined.

Solubility in / Miscibility with

water: Soluble.

Partition 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: Carbon monoxide and carbon dioxide

## **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:** 

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eve damage/irritation 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 (carcinogenity, 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.

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**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:

#### European waste catalogue:

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

Marine pollutant: No

**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 substance or 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.

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## **Training hints:**

Employees who use the product have to be trained on risks for health, hygiene, use of individual protection, accident preventive actions, rescue actions, etc.,

## **Department issuing SDS:**

biotechrabbit GmbH

Volmerstr. 9 D-12489 Berlin

Tel. +49 (0) 30 555 78 21 0 Fax. +49 (0) 30 555 78 21 99 Email: sds@biotechrabbit.com www.biotechrabbit.com

Contact: Dr. Bernd Haase
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 vPvB: very Persistent and very Bioaccumulative