

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: Catalog number:	BR0701	 Plant RNA Kit 5 is any number from 00 to 99 for different package sizes)
Kit components:	K00128 K00130 K00135 K00136 K00146	Buffer LYSIS LR Buffer LYSIS LT Buffer WASH A Buffer WASH B Water, RNase-free (for ELUTION)

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Safety data sheet

according to 1907/2006/EC, Article 31

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.
GHS07
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:



Signal word: Danger

e.g			
Hazard-determining components of labelling: guanidinium thiocyanate Hazard statements:			
H302 Harmful if s			
	vere skin burns and eye damage.		
	aquatic life with long lasting effects.		
Precautionary st			
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.		
	3 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with		
	water [or shower].		
P305+P351+P338	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 application	able.		

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

>25-≤50%

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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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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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:

Appearance:		
Form:	Fluid	
Colour:	Clear	
Odour:	Characteristic	
Odour threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition: Melting point/freezing point: Initial boiling point and boiling range:	Undetermined. Undetermined.	
Flash point:	Not applicable.	
Flammability (solid, gas):	Not applicable.	
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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Vapour pressure at 20 °C:	23 hPa		
Density: Relative density: Vapour density: Evaporation rate:	Not determined. Not determined. Not determined. Not determined.		
Solubility in / Miscibility with water:	Soluble.		
Partition coefficient: n-octanol/water:	Not determined.		
Viscosity: Dynamic: Kinematic: 9.2 Other information:	Not determined. Not determined. 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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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 14.2 UN proper shipping name: ADR

UN1760

1760 CORROSIVE LIQUID, N.O.S. (guanidinium thiocyanate) CORROSIVE LIQUID, N.O.S. (guanidinium thiocyanate)

IMDG, IATA 14.3 Transport hazard class(es):

ADR, IMDG, IATA



8 Corrosive substances.
8
No
Warning: Corrosive substances.
80
F-A,S-B
A
SW2 Clear of living quarters.
Not applicable.

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Trade name: Buffer LYSIS LR (K00128)

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Transport/Additional information:

ADR Limited quantities (LQ): Transport category: Tunnel restriction code: UN "Model Regulation":

3 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

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

1.1 Product identifier

Trade name: Buffer LYSIS LT (K00130)

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:



Acute Tox. 4 H302 Harmful if swallowed.

Skin Irrit. 2 H315 Causes skin irritation.

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:



Signal word: Warning

Hazard-determining components of labelling: guanidinium chloride

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Trade name: Buffer LYSIS LT (K00130)

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Hazard stateme	nts:
H302 Harmful if s	swallowed.
H315 Causes ski	n irritation.
H319 Causes ser	rious eye irritation.
Precautionary s	
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.
P280	Wear protective gloves / eye protection / face protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P330	Rinse mouth.
P305+P351+P33	8 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.
2.3 Other hazard	ls:
Results of PBT a	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: 50-01-1 guanidinium chloride

>25-≤50%

EINECS: 200-002-3 Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315; 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: Take affected persons into fresh air and keep quiet.

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

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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:

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:

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.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Do not inhale gases / fumes / aerosols.

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

Protection of hands: Protective gloves



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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 o General Information: Appearance: Form: Colour: Odour: Odour: Odour threshold:	Fluid Clear Characteristic Not determined.
pH-value:	Not determined.
Change in condition: Melting point/freezing point: Initial boiling point and boiling range	Undetermined. : 100 °C
Flash point:	Not applicable.
Flammability (solid, gas):	Not applicable.
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 at 20 °C:	23 hPa
Density: Relative density: Vapour density: Evaporation rate:	Not determined. Not determined. Not determined. Not determined.
Solubility in / Miscibility with water:	Soluble.
Partition coefficient: n-octanol/water:	Not determined.
Viscosity: Dynamic: Kinematic: 9.2 Other information:	Not determined. Not determined. 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 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 Harmful if swallowed.

LD/LC50 values relevant for classification:

50-01-1 guanidinium chloride

Oral LD50 475 mg/kg (rat)

Primary irritant effect:

Skin corrosion/irritation

Causes skin irritation.

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.



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Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information	
14.1 UN-Number: ADR, ADN, IMDG, IATA 14.2 UN proper shipping name:	Void
ADR, ADN, IMDG, IATA 14.3 Transport hazard class(es):	Void
ADR, ADN, IMDG, IATA	
Class: 14.4 Packing group:	Void
ADR, IMDG, IATA	Void
14.5 Environmental hazards:	
Marine pollutant: 14.6 Special precautions for user:	No Not applicable.
14.7 Transport in bulk according to Annex II o Marpol and the IBC Code UN "Model Regulation":	

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. H315 Causes skin irritation. H319 Causes serious eye irritation. H332 Harmful if inhaled.

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 Page 7/7



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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 DD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity – Category 4 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Page 1/7



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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 555Å8Å21 0 Fax: +49 @D\$0 555Å8 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:



•		
Skin Corr. 1C	H314 Causes severe skin burns and eye damage.	
Eye Dam. 1	H318 Causes serious eye damage.	
GHS07		
Acute Tox. 4	H302 Harmful if swallowed.	
Aquatic Chronic	3 H412 Harmful to aquatic life with long lasting effects.	
	nts: ding to Regulation (EC) No 1272/2008: assified and labelled according to the CLP regulation. (Contd. on page 2)	

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Trade name: Buffer WASH A (K00135)

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Hazard pictograms:



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.	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].	clothing. Rinse skin with
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	Remove contact lenses, if
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.	nal/national/international
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 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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25-50%

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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:

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 Initial boiling point and boili		
Flash point:	Not applicable.	
Flammability (solid, gas):	Not applicable.	
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.	((

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Trade name: Buffer WASH A (K00135)		
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Vapour pressure at 20 °C:	23 hPa	
Density: Relative density: Vapour density: Evaporation rate:	Not determined. Not determined. Not determined. Not determined.	
Solubility in / Miscibility with water:	Soluble.	
Partition coefficient: n-octanol/water:	Not determined.	
Viscosity: Dynamic: Kinematic: 9.2 Other information:	Not determined. Not determined. 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 14.2 UN proper shipping name: ADR

UN1760

1760 CORROSIVE LIQUID, N.O.S. (guanidinium thiocyanate) CORROSIVE LIQUID, N.O.S. (guanidinium thiocyanate)

IMDG, IATA 14.3 Transport hazard class(es):

ADR, IMDG, IATA



Class:	8 Corrosive substances.
Label:	8
14.4 Packing group:	
ADR, IMDG, IATA	111
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): Transport category: Tunnel restriction code: UN "Model Regulation":

3 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

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Safety data sheet

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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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according to 1907/2006/EC, Article 31

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.

After swallowing: Call a doctor infinediately.

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: Odour:	Colourless Mild	
Odour threshold:	Not determined.	
pH-value:	7 - 8	
Change in condition: Melting point/freezing point: Initial boiling point and boiling range:	Undetermined. 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 haza	ırd.
Explosion limits: Lower: Upper:	Not determined. Not determined.	
Vapour pressure:	Not applicable.	
Density: Relative density: Vapour density: Evaporation rate:	Not determined. Not determined. Not determined. Not determined.	
Solubility in / Miscibility with water:	Soluble.	
Partition coefficient: n-octanol/water:	Not determined.	
Viscosity: Dynamic: Kinematic: 9.2 Other information:	Not applicable. Not applicable. 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 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.

l	SECTION 14: Transport information	
	14.1 UN-Number: ADR, ADN, IMDG, IATA	Void
	14.2 UN proper shipping name: ADR, ADN, IMDG, IATA 14.3 Transport hazard class(es):	Void
	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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Version number 3

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Trade name: Buffer WASH B (K00136)

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 Page 1/6



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according to 1907/2006/EC, Article 31

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

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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)



according to 1907/2006/EC, Article 31

Printing date 01.04.2019

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Revision: 01.04.2019

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

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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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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:	Undetermined.
Initial boiling point and boiling range	: Undetermined.
Flash point:	Not applicable.
Flammability (solid, gas):	Not applicable.

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(Contd. of page 3) **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. Vapour pressure: Not applicable. **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: Not applicable. **Dynamic: 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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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:

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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:

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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