

chemagic[™] Kit Components chemagic DNA Tissue 10mg Kit H96

Product number: CMG-723

Component name
Magnetic Beads
Lysis Buffer 1
Binding Buffer 2
Wash Buffer 3
Wash Buffer 4
Wash Buffer 5
Wash Buffer 6
Elution Buffer 7
Proteinase K

The information provided in this document is for reference purposes only and may not be all-inclusive. Revvity, Inc., its subsidiaries, and/or affiliates (collectively, "Revvity") do not assume liability for the accuracy or completeness of the information contained herein. Users should exercise caution when handling materials as they may present unknown hazards. Revvity shall not be liable for any damages or losses resulting from handling or contact with the product, as Revvity cannot control actual methods, volumes, or conditions of use. Users are responsible for ensuring the product's suitability for their specific application. REVVITY EXPRESSLY DISCLAIMS ALL WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, REGARDLESS OF WHETHER ORAL OR WRITTEN, EXPRESS OR IMPLIED, ALLEGEDLY ARISING FROM ANY USAGE OF ANY TRADE OR ANY COURSE OF DEALING, IN CONNECTION WITH THE USE OF INFORMATION CONTAINED HEREIN OR THE PRODUCT ITSELF.



Revvity chemagen Technologie GmbH Arnold-Sommerfeld-Ring 2 D-52499 Baesweiler +49 2401 805 500 www.revvity.com For a complete listing of our global offices, visit <u>www.revvity.com</u> Copyright ©2023, Revvity, Inc. All rights reserved.

according to WHS Regulations

Printing date 01.02.2024

ſeŴſ

Version number 19

Revision: 01.02.2024

1 Identification

· Product identifier

- · Trade name: Magnetic Beads
- · Relevant identified uses of the substance or mixture and uses advised against
- · Sector of Use -
- Process category PROC20 Use of functional fluids in small devices
- · Application of the substance / the mixture Product for analytical use
- · Details of the supplier of the safety data sheet
- *Manufacturer/Supplier:* Revvity chemagen Technologie GmbH Arnold-Sommerfeld-Ring 2 52499 BAESWEILER DEUTSCHLAND e-mail: support.chemagen@revvity.com
- Further information obtainable from: Emergency telephone number: CHEMTREC (within U.S.) 800 424-9300 CHEMTREC (from outside U.S.) +1-703-672-3887

2 Hazard(s) Identification

- *Classification of the substance or mixture* The product is not classified, according to the Globally Harmonised System (GHS).
- · Label elements
- · GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · Other hazards
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition and Information on Ingredients

- · Chemical characterisation: Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.
- · Dangerous components: Void
- Additional information:

brown suspension, particles containing iron oxide and polyvinyl alcohol, suspended in water For the wording of the listed hazard phrases refer to section 16.

7732-18-5 water, distilled, conductivity or of similar purity

>80%

4 First Aid Measures

- · General information: No special measures required.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water.

(Contd. on page 2)

⁻ AU

Revision: 01.02.2024

Version number 19

Trade name: Magnetic Beads

(Contd. of page 1)

· After swallowing: If symptoms persist consult doctor.

- Information for doctor:
- *Most important symptoms and effects, both acute and delayed* No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire Fighting Measures

- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- Special hazards arising from the substance or mixture No further relevant information available.
- · Protective equipment: No special measures required.

6 Accidental Release Measures

· Personal precautions, protective equipment and emergency procedures Not required.

- · Environmental precautions: Dilute with plenty of water.
- Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- 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.

7 Handling and Storage

- · Handling:
- · Precautions for safe handling No special measures required.
- · Information about fire and explosion protection: No special measures required.
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · Specific end use(s) No further relevant information available.

8 Exposure controls and personal protection

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

- Additional information: The lists valid during the making were used as basis.
- · Personal protective equipment:
- · General protective and hygienic measures:
- The usual precautionary measures are to be adhered to when handling chemicals.
- · Respiratory protection: Not required.
- Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

(Contd. on page 3)

revvity

Printing date 01.02.2024

according to WHS Regulations

Printing date 01.02.2024

ſeŴſ

Version number 19

Revision: 01.02.2024

Trade name: Magnetic Beads

(Contd. of page 2) Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

• **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: Goggles recommended during refilling

General Information		
Appearance:		
Form:	Fluid	
Colour:	According to product specification	
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:	Not applicable.	
Flammability (solid, gas):	Not applicable.	
Decomposition temperature:	Not determined.	
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:	Fully miscible.	
Partition coefficient: n-octanol/water:	Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Water:	>80 %	
Solids content:	>0 - <20 %	

according to WHS Regulations

Printing date 01.02.2024

Version number 19

Revision: 01.02.2024

(Contd. of page 3)

Trade name: Magnetic Beads

· Other information

No further relevant information available.

10 Stability and Reactivity

- · Reactivity No further relevant information available.
- · Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- *Incompatible materials:* No further relevant information available.
- · *Hazardous decomposition products:* No dangerous decomposition products known.

11 Toxicological Information

· Information on toxicological effects

- · Acute toxicity Based on available data, the classification criteria are not met.
- · 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.
- 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.

12 Ecological Information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes: Not hazardous for water.
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- *Recommendation* Smaller quantities can be disposed of with household waste.

(Contd. on page 5)

AU



according to WHS Regulations

Revision: 01.02.2024

Trade name: Magnetic Beads

(Contd. of page 4)

· Uncleaned packaging:

- **Recommendation:** Disposal must be made according to official regulations.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

UN-Number		
ADG, ADN, IMDG, IATA	not regulated	
UN proper shipping name		
ADG, ADN, IMDG, IATA	not regulated	
Transport hazard class(es)		
ADG, ADN, IMDG, IATA		
Class	not regulated	
Packing group		
ADG, IMDG, IATA	not regulated	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
Transport in bulk according to Ann	nex II of	
Marpol and the IBC Code	Not applicable.	

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Australian Inventory of Industrial Chemicals
- All ingredients are listed.
- · Standard for the Uniform Scheduling of Medicines and Poisons
- None of the ingredients is listed.

· Australia: Priority Existing Chemicals

- None of the ingredients is listed.
- · GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · Directive 2012/18/EU
- Named dangerous substances ANNEX I None of the ingredients is listed.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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.



Printing date 01.02.2024

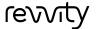
Version number 19

Version number 19

Revision: 01.02.2024

Trade name: Magnetic Beads

	(Contd. of page 5)
Department issuing SDS: Department of Production	
Contact: -	
Abbreviations and acronyms:	
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agree International Carriage of Dangerous Goods by Road)	ment Concerning the
IMDG: International Maritime Code for Dangerous Goods	
IATA: International Air Transport Association	
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	
* Data compared to the previous version altered.	
	011-



Printing date 01.02.2024

according to WHS Regulations

Printing date 13.12.2023

rev

Version number 19

Revision: 13.12.2023

1 Identification

· Product identifier

- [•] Trade name: Lysis Buffer 1
- · Relevant identified uses of the substance or mixture and uses advised against
- · Sector of Use -
- · Application of the substance / the mixture Product for analytical use
- · Details of the supplier of the safety data sheet
- *Manufacturer/Supplier:* Revvity chemagen Technologie GmbH Arnold-Sommerfeld-Ring 2 52499 BAESWEILER DEUTSCHLAND e-mail: support.chemagen@revvity.com
- Further information obtainable from: Emergency telephone number: CHEMTREC (within U.S.) 800 424-9300 CHEMTREC (from outside U.S.) +1-703-672-3887

2 Hazard(s) Identification

· Classification of the substance or mixture



Serious eye damage/irritation – Category 2A H319 Causes serious eye irritation.

- · Label elements
- · GHS label elements
- The product is classified and labelled according to the Globally Harmonised System (GHS).
- · Hazard pictograms



- · Signal word Warning
- Hazard statements

Causes serious eye irritation.

- Precautionary statements
 Wash thoroughly after handling.
 Wear eye protection / face protection.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 If eye irritation persists: Get medical advice/attention.
 Other hazards
 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

(Contd. on page 2)

according to WHS Regulations

Version number 19

Revision: 13.12.2023

Trade name: Lysis Buffer 1

(Contd. of page 1)

≥1-<3%

3 Composition and Information on Ingredients

· Chemical characterisation: Mixtures

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

· Dangerous components:

151-21-3 sodium dodecyl sulphate

· Additional information:

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

7732-18-5	water, distilled, conductivity or of similar purity	80-100%
77-86-1	trometamol	0.75-1.5%
7647-14-5	sodium chloride	0.75-1.5%

4 First Aid Measures

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire Fighting Measures

• Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

- Special hazards arising from the substance or mixture No further relevant information available.
- Protective equipment: No special measures required.

6 Accidental Release Measures

- Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions:
- Dilute with plenty of water.
- Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- · 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.

(Contd. on page 3)



Printing date 13.12.2023

according to WHS Regulations

Printing date 13.12.2023

rev

Version number 19

Revision: 13.12.2023

Trade name: Lysis Buffer 1

(Contd. of page 2)

7 Handling and Storage

- · Handling:
- Precautions for safe handling No special precautions are necessary if used correctly.
- Information about fire and explosion protection: No special measures required.
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.
- · Specific end use(s) No further relevant information available.

8 Exposure controls and personal protection

- Additional information about design of technical facilities: No further data; see section 7. • 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.
- Additional information: The lists valid during the making were used as basis.
- · Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the eyes.
- Avoid contact with the eyes and skin.
- · Respiratory protection: Not required.
- · Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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.

(Contd. on page 4)

according to WHS Regulations

Revision: 13.12.2023

Printing date 13.12.2023

revvit

Version number 19

Trade name: Lysis Buffer 1

(Contd. of page 3)

• Eye protection:



Tightly sealed goggles

• • • •	
General Information	
Appearance:	
Form:	Fluid
Colour:	Colourless
Odour:	Odourless
Odour threshold:	Not determined.
pH-value at 20 °C:	7.1
Change in condition	
• Melting point/freezing point:	0 °C
Initial boiling point and boiling range:	
Flash point:	Not applicable.
Flammability (solid, gas):	Not applicable.
Decomposition temperature:	Not determined.
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 at 20 °C:	1.012 g/cm³
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
water:	Fully miscible.
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
· Dynamic at 20 °C:	0.952 mPas
Kinematic:	Not determined.
Solvent content:	
Water:	80 - 100 %

10 Stability and Reactivity

· Reactivity No further relevant information available.

· Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.

(Contd. on page 5)

[–] AU

Version number 19

Revision: 13.12.2023

Trade name: Lysis Buffer 1

Printing date 13.12.2023

· Incompatible materials: No further relevant information available.

· Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological Information

- · Information on toxicological effects
- Acute toxicity Based on available data, the classification criteria are not met.
- · 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.
- · 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.

12 Ecological Information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- 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.

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

(Contd. on page 6)



(Contd. of page 4)

5)

according to WHS Regulations

Printing date 13.12.2023

IEVVI

Version number 19

Revision: 13.12.2023

Trade name: Lysis Buffer 1

(Contd. of page 5)

UN-Number		
ADG, ADN, IMDG, IATA	not regulated	
UN proper shipping name		
ADĠ, ADN, IMDĠ, ĨATA	not regulated	
Transport hazard class(es)		
ADG, ADN, IMDG, IATA		
Class	not regulated	
Packing group		
ADG, IMDG, IATA	not regulated	
Environmental hazards:		
Marine pollutant:	No	
Special precautions for user	Not applicable.	
Transport in bulk according to Ann	nex II of	
Marpol and the IBC Code	Not applicable.	

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

· Australian Inventory of Industrial Chemicals

All ingredients are listed.

· Standard for the Uniform Scheduling of Medicines and Poisons

77-86-1 trometamol

· Australia: Priority Existing Chemicals

None of the ingredients is listed.

· GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS). • **Hazard pictograms**



· Signal word Warning

Hazard statements

Causes serious eye irritation.

· Precautionary statements

Wash thoroughly after handling. Wear eye protection / face protection.

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

If eye irritation persists: Get medical advice/attention.

(Contd. on page 7)

S4

Version number 19

Revision: 13.12.2023

Trade name: Lysis Buffer 1

Printing date 13.12.2023

IEVVI

(Contd. of page 6)

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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.

- · Department issuing SDS: Department of Production
- · Contact: -
- · Abbreviations and acronyms:

ADR: Accord relatif au transport international 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 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 Serious eye damage/irritation - Category 2A: Serious eye damage/eye irritation - Category 2A

** Data compared to the previous version altered.

according to WHS Regulations

Printing date 13.12.2023

rev

Version number 57

Revision: 13.12.2023

1 Identification

· Product identifier

- Trade name: Binding Buffer 2
- · Relevant identified uses of the substance or mixture and uses advised against
- · Sector of Use -
- · Application of the substance / the mixture Product for analytical use
- · Details of the supplier of the safety data sheet
- *Manufacturer/Supplier:* Revvity chemagen Technologie GmbH Arnold-Sommerfeld-Ring 2 52499 BAESWEILER DEUTSCHLAND e-mail: support.chemagen@revvity.com
- Further information obtainable from: Emergency telephone number: CHEMTREC (within U.S.) 800 424-9300 CHEMTREC (from outside U.S.) +1-703-672-3887

2 Hazard(s) Identification

· Classification of the substance or mixture



Flam. Lig. 3 H226 Flammable liquid and vapour.

- · Label elements
- · GHS label elements
- The product is classified and labelled according to the Globally Harmonised System (GHS).
- · Hazard pictograms



- · Signal word Warning
- Hazard statements

Flammable liquid and vapour.

· Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. No smoking. Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting equipment.

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

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower.

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

- Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.

(Contd. on page 2)

AU -

according to WHS Regulations

Printing date 13.12.2023

ſeŴ

Version number 57

Revision: 13.12.2023

Trade name: Binding Buffer 2

(Contd. of page 1)

· vPvB: Not applicable.

3 Composition and Information on Ingredients

[•] Chemical characterisation: Mixtures

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

· Dangerous components:		
64-17-5	ethanol	40-60%
7601-89-0	sodium perchlorate	≥20-≤30%
64-19-7	acetic acid	0.75-1.5%
· Additional information:		

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

7732-18-5	water, distilled, conductivity or of similar purity	10-30%
127-09-3	sodium acetate	0.75-1.5%
50-70-4	D-glucitol	0.75-1.5%
77-86-1	trometamol	0.75-1.5%

4 First Aid Measures

• General information: Immediately remove any clothing soiled by the product.

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

· After skin contact: Immediately rinse with water.

- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- *Most important symptoms and effects, both acute and delayed* No further relevant information available.
- *Indication of any immediate medical attention and special treatment needed* No further relevant information available.

5 Fire Fighting Measures

· Suitable extinguishing agents:

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

- Special hazards arising from the substance or mixture No further relevant information available.
- · Protective equipment: No special measures required.

6 Accidental Release Measures

- *Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.*
- Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

[.] Methods and material for containment and cleaning up:

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

(Contd. on page 3)

AU -

Revision: 13.12.2023

(Contd. of page 2)



Printing date 13.12.2023

Version number 57

Trade name: Binding Buffer 2

Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.

• **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.

7 Handling and Storage

- · Handling:
- **Precautions for safe handling** No special precautions are necessary if used correctly. • **Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

· Storage:

· Requirements to be met by storerooms and receptacles: No special requirements.

- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.
- Specific end use(s) No further relevant information available.

8 Exposure controls and personal protection

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

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

64-17-5 ethanol

WES Long-term value: 1880 mg/m³, 1000 ppm

64-19-7 acetic acid

- WES Short-term value: 37 mg/m³, 15 ppm Long-term value: 25 mg/m³, 10 ppm
- · Additional information: The lists valid during the making were used as basis.
- · Personal protective equipment:
- General protective and hygienic measures: Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.
- **Respiratory protection:** Not required.
- Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• Material of gloves

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

(Contd. on page 4)

according to WHS Regulations

Revision: 13.12.2023

revvity

Printing date 13.12.2023

Version number 57

Trade name: Binding Buffer 2

(Contd. of page 3)

· 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

General Information	
Appearance:	
Form:	Fluid
Colour:	Clear
Odour:	Characteristic
Odour threshold:	Not determined.
pH-value at 20 °C:	5.7
Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	78 °C
Flash point:	26 °C
Flammability (solid, gas):	Flammable.
Decomposition temperature:	Not determined.
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation of explosive air
	vapour mixtures are possible.
Explosion limits:	
Lower:	3.5 Vol %
Upper:	15 Vol %
Vapour pressure at 20 °C:	59 hPa
Vapour pressure at 50 °C:	280 hPa
Density at 20 °C:	1.2626 g/cm³
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
water:	Fully miscible.
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	40 - 60 %
Water:	10 - 30 %

(Contd. on page 5)

Printing date 13.12.2023

Version number 57

Revision: 13.12.2023

Trade name: Binding Buffer 2

(Contd. of page 4)

10 Stability and Reactivity

· Reactivity No further relevant information available.

- · Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological Information

· Information on toxicological effects

· Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

64-17-5 ethanol

Oral LD50 7,060 mg/kg (rat)

Inhalative LC50/4 h 20,000 mg/l (rat)

• 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.
- · 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.

12 Ecological Information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- 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.

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

· Other adverse effects No further relevant information available.

(Contd. on page 6)



according to WHS Regulations

Printing date 13.12.2023

Version number 57

Revision: 13.12.2023

Trade name: Binding Buffer 2

(Contd. of page 5)

13 Disposal considerations

· Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- **Recommendation:** Disposal must be made according to official regulations.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

UN-Number ADG, IMDG, IATA	UN1170
· · ·	011170
UN proper shipping name	
ADG	1170 ETHANOL SOLUTION (ETHYL ALCOHOL
IMDG	SOLUTION) ETHANOL SOLUTION (ETHYL ALCOHOL
IWDG	SOLUTION)
ΙΑΤΑ	ETHANOL SOLUTION
Transport hazard class(es)	
ADG, IMDG, IATA	
A	
Class	3 Flammable liquids.
Label	3
Packing group	
ADG, IMĎG, IATA	<i>III</i>
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids.
Hazard identification number (Kemler code):	
EMS Number:	F-E,S-D
Stowage Category	A
Transport in bulk according to Annex II of	
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 m
Transport category	3



according to WHS Regulations

Printing date 13.12.2023

(GV)

Version number 57

Revision: 13.12.2023

Trade name: Binding Buffer 2

	(Contd. of page 6
· Tunnel restriction code	D/E
 IMDG Limited quantities (LQ) Excepted quantities (EQ) 	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, III

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture

[.] Australiar	n Inventory of Industrial Chemicals		
64-17-5	ethanol		
7732-18-5	water, distilled, conductivity or of similar purity		
127-09-3	sodium acetate		
50-70-4	D-glucitol		
64-19-7	64-19-7 acetic acid		
77-86-1	trometamol		
· Standard	for the Uniform Scheduling of Medicines and Poisons		
64-19-7 a	cetic acid	S2, S5, S6	
77-86-1 tr	rometamol	S4	
· Australia:	Priority Existing Chemicals		
None of th	e ingredients is listed.		

· GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS). • Hazard pictograms



· Signal word Warning

· Hazard statements

Flammable liquid and vapour.

Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. No smoking. Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting equipment.

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

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower.

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

· Directive 2012/18/EU

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

Version number 57

Revision: 13.12.2023

Trade name: Binding Buffer 2

Printing date 13.12.2023

IEVVI

· Seveso category P5c FLAMMABLE LIQUIDS

(Contd. of page 7)

- Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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.

- · Department issuing SDS: Department of Production
- Contact: -
- Abbreviations and acronyms:

ADR: Accord relatif au transport international 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 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 PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 3: Flammable liquids – Category 3 • * Data compared to the previous version altered.

according to WHS Regulations

Printing date 13.12.2023

rev

Version number 14

Revision: 13.12.2023

1 Identification

· Product identifier

- Trade name: Wash Buffer 3
- · Relevant identified uses of the substance or mixture and uses advised against
- · Sector of Use -
- · Application of the substance / the mixture Product for analytical use
- · Details of the supplier of the safety data sheet
- *Manufacturer/Supplier:* Revvity chemagen Technologie GmbH Arnold-Sommerfeld-Ring 2 52499 BAESWEILER DEUTSCHLAND e-mail: support.chemagen@revvity.com
- Further information obtainable from: Emergency telephone number: CHEMTREC (within U.S.) 800 424-9300 CHEMTREC (from outside U.S.) +1-703-672-3887

2 Hazard(s) Identification

· Classification of the substance or mixture



Flam. Lig. 3 H226 Flammable liquid and vapour.

- · Label elements
- · GHS label elements
- The product is classified and labelled according to the Globally Harmonised System (GHS).
- · Hazard pictograms



- · Signal word Warning
- Hazard statements

Flammable liquid and vapour.

· Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. No smoking. Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting equipment.

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

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower.

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

- Other hazards
- Results of PBT and vPvB assessment
- · PBT: Not applicable.

(Contd. on page 2)

AU -

according to WHS Regulations

Printing date 13.12.2023

Levv

Version number 14

Revision: 13.12.2023

Trade name: Wash Buffer 3

(Contd. of page 1)

20-40%

≥10-<20%

· vPvB: Not applicable.

3 Composition and Information on Ingredients

· Chemical characterisation: Mixtures

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

· Dangerous	components:
-------------	-------------

64-17-5 ethanol 7601-89-0 sodium perchlorate

Additional information:

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

7732-18-5	water, distilled, conductivity or of similar purity	35-55%
127-09-3	sodium acetate	1-3%
9005-64-5	Polysorbate 20	0.75-1.5%

4 First Aid Measures

· General information: Immediately remove any clothing soiled by the product.

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately rinse with water.
- After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- *Most important symptoms and effects, both acute and delayed* No further relevant information available.
- *Indication of any immediate medical attention and special treatment needed* No further relevant information available.

5 Fire Fighting Measures

· Suitable extinguishing agents:

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

- · Special hazards arising from the substance or mixture No further relevant information available.
- · Protective equipment: No special measures required.

6 Accidental Release Measures

- Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- Environmental precautions:
- Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.

(Contd. on page 3)

⁻ AU ·

Version number 14

Revision: 13.12.2023

Trade name: Wash Buffer 3

(Contd. of page 2)

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.

7 Handling and Storage

· Handling:

- Precautions for safe handling No special precautions are necessary if used correctly.
- Information about fire and explosion protection:
- Keep ignition sources away Do not smoke. Protect against electrostatic charges.
- Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.
- Specific end use(s) No further relevant information available.

8 Exposure controls and personal protection

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

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

64-17-5 ethanol

WES Long-term value: 1880 mg/m³, 1000 ppm

- · Additional information: The lists valid during the making were used as basis.
- · Personal protective equipment:
- General protective and hygienic measures: Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.
- · Respiratory protection: Not required.
- Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• Material of gloves

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· 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.

(Contd. on page 4)

Printing date 13.12.2023

rev

according to WHS Regulations

Revision: 13.12.2023

Printing date 13.12.2023

Version number 14

Trade name: Wash Buffer 3

(Contd. of page 3)

• Eye protection:



revvity

Tightly sealed goggles

	ies
· General Information	
· Appearance:	
· Form:	Fluid
· Colour:	According to product specification
· Odour:	Characteristic
· Odour threshold:	Not determined.
· pH-value at 20 °C:	5.4
Change in condition	
· Melting point/freezing point:	Undetermined.
 Initial boiling point and boiling range: 	78 °C
· Flash point:	27 °C
· Flammability (solid, gas):	Flammable.
Auto-ignition temperature:	425 °C
Decomposition temperature:	Not determined.
· Ignition temperature:	Product is not selfigniting.
• Explosive properties:	Product is not explosive. However, formation of explosive a
	vapour mixtures are possible.
· Explosion limits:	
Lower:	Not determined.
· Upper:	Not determined.
· Vapour pressure at 20 °C:	59 hPa
Density at 20 °C:	1.05 g/cm³
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
· water:	Fully miscible.
· Partition coefficient: n-octanol/water:	
· Viscosity:	
· Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
· Organic solvents:	20 - 40 %
· Water:	35 - 55 %
· VOC (EC)	20 - 40 %
• Other information	No further relevant information available.

10 Stability and Reactivity

· Reactivity No further relevant information available.

(Contd. on page 5)

⁻ AU

Revision: 13.12.2023

Printing date 13.12.2023

Version number 14

Trade name: Wash Buffer 3

- Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological Information

- · Information on toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.
- 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.
- · 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.

12 Ecological Information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · 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.

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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

(Contd. on page 6)

(Contd. of page 4)

Printing date 13.12.2023

revvity

Version number 14

Revision: 13.12.2023

(Contd. of page 5)

Trade name: Wash Buffer 3

· Recommended cleansing agents: Water, if necessary together with cleansing agents.

UN-Number ADG, IMDG, IATA	UN1170
UN proper shipping name ADG IMDG IATA	1170 ETHANOL (ETHYL ALCOHOL) solution ETHANOL (ETHYL ALCOHOL) solution ETHANOL solution
Transport hazard class(es)	
ADG, IMDG, IATA	
Class Label	3 Flammable liquids. 3
Packing group ADG, IMDG, IATA	<i>III</i>
Environmental hazards:	Not applicable.
Special precautions for user Hazard identification number (Kemler code): EMS Number: Stowage Category	Warning: Flammable liquids. 30 F-E,S-D A
Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADG Limited quantities (LQ) Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
Transport category Tunnel restriction code	3 D/E
IMDG Limited quantities (LQ) Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN 1170 ETHANOL (ETHYL ALCOHOL) SOLUTION

(Contd. on page 7)

according to WHS Regulations

Printing date 13.12.2023

rev

Version number 14

Revision: 13.12.2023

Trade name: Wash Buffer 3

(Contd. of page 6)

S5

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture

· Australian Inventory of Industrial Chemicals

- 7732-18-5 water, distilled, conductivity or of similar purity
- 64-17-5 ethanol
- 127-09-3 sodium acetate
- 9005-64-5 Polysorbate 20
 - 78-93-3 butanone

· Standard for the Uniform Scheduling of Medicines and Poisons

78-93-3 butanone

· Australia: Priority Existing Chemicals

None of the ingredients is listed.

· GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS). **Hazard pictograms**



- · Signal word Warning
- · Hazard statements
- Flammable liquid and vapour.
- Precautionary statements
- Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting equipment.

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

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower.

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

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category P5c FLAMMABLE LIQUIDS
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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.

- · Department issuing SDS: Department of Production
- · Contact: -

(Contd. on page 8)

[—] AU

Revision: 13.12.2023

revvity

Printing date 13.12.2023

Version number 14

Trade name: Wash Buffer 3

(Contd. of page 7)

Abbreviations and acronyms:
 ADR: Accord relatif au transport international 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 Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European Ist of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 VOC: Volatile Organic Compounds (USA, EU)
 PBT: Persistent, Bioaccumulative and Toxic
 vPVB: very Persistent and very Bioaccumulative
 Flam. Liq. 3: Flammable liquids – Category 3
 * Data compared to the previous version altered.

according to WHS Regulations

Printing date 13.12.2023

rev

Version number 48

Revision: 13.12.2023

1 Identification

· Product identifier

- [·] Trade name: Wash Buffer 4
- · Relevant identified uses of the substance or mixture and uses advised against
- · Sector of Use -
- · Application of the substance / the mixture Product for analytical use
- · Details of the supplier of the safety data sheet
- *Manufacturer/Supplier:* Revvity chemagen Technologie GmbH Arnold-Sommerfeld-Ring 2 52499 BAESWEILER DEUTSCHLAND e-mail: support.chemagen@revvity.com
- Further information obtainable from: Emergency telephone number: CHEMTREC (within U.S.) 800 424-9300 CHEMTREC (from outside U.S.) +1-703-672-3887

2 Hazard(s) Identification

· Classification of the substance or mixture



Flam. Lig. 3 H226 Flammable liquid and vapour.

- · Label elements
- · GHS label elements
- The product is classified and labelled according to the Globally Harmonised System (GHS).
- · Hazard pictograms



- · Signal word Warning
- Hazard statements

Flammable liquid and vapour.

· Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. No smoking. Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting equipment.

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

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower.

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

- Other hazards
- Results of PBT and vPvB assessment
- · PBT: Not applicable.

(Contd. on page 2)

AU -

according to WHS Regulations

Printing date 13.12.2023

ſeŴſ

Version number 48

Revision: 13.12.2023

Trade name: Wash Buffer 4

(Contd. of page 1)

20-40%

≥10-<20%

40-60%

1-3%

· vPvB: Not applicable.

3 Composition and Information on Ingredients

[•] Chemical characterisation: Mixtures

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

· Dangerous components:

64-17-5 ethanol

7601-89-0 sodium perchlorate

· Additional information:

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

7732-18-5 water, distilled, conductivity or of similar purity

127-09-3 sodium acetate

4 First Aid Measures

· General information: Immediately remove any clothing soiled by the product.

- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately rinse with water.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire Fighting Measures

· Suitable extinguishing agents:

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

- Special hazards arising from the substance or mixture No further relevant information available.
- · Protective equipment: No special measures required.

6 Accidental Release Measures

• Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.

• Environmental precautions: Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

• *Methods and material for containment and cleaning up:* Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.

Reference to other sections
 See Section 7 for information on safe handling.

(Contd. on page 3)

AU

according to WHS Regulations

Printing date 13.12.2023

rev

Version number 48

Revision: 13.12.2023

(Contd. of page 2)

Trade name: Wash Buffer 4

See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7 Handling and Storage

- · Handling:
- **Precautions for safe handling** No special precautions are necessary if used correctly.
- · Information about fire and explosion protection:
- Keep ignition sources away Do not smoke.
- Protect against electrostatic charges.
- Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.
- · Specific end use(s) No further relevant information available.

8 Exposure controls and personal protection

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

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

64-17-5 ethanol

WES Long-term value: 1880 mg/m³, 1000 ppm

· Additional information: The lists valid during the making were used as basis.

· Personal protective equipment:

General protective and hygienic measures: Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.

- · Respiratory protection: Not required.
- Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• Material of gloves

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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.

(Contd. on page 4)



according to WHS Regulations

Revision: 13.12.2023

Printing date 13.12.2023

Version number 48

Trade name: Wash Buffer 4

(Contd. of page 3)

• Eye protection:



revvity

Tightly sealed goggles

Fluid Clear Characteristic Not determined. 5.4 Undetermined. 78 °C 27 °C Flammable. 425 °C Not determined. Product is not selfigniting. Product is not explosive. However, formation of explosive a
Clear Characteristic Not determined. 5.4 Undetermined. 78 °C 27 °C Flammable. 425 °C Not determined. Product is not selfigniting.
Clear Characteristic Not determined. 5.4 Undetermined. 78 °C 27 °C Flammable. 425 °C Not determined. Product is not selfigniting.
Characteristic Not determined. 5.4 Undetermined. 78 °C 27 °C Flammable. 425 °C Not determined. Product is not selfigniting.
Not determined. 5.4 Undetermined. 78 °C 27 °C Flammable. 425 °C Not determined. Product is not selfigniting.
5.4 Undetermined. 78 °C 27 °C Flammable. 425 °C Not determined. Product is not selfigniting.
Undetermined. 78 °C 27 °C Flammable. 425 °C Not determined. Product is not selfigniting.
78 °C 27 °C Flammable. 425 °C Not determined. Product is not selfigniting.
78 °C 27 °C Flammable. 425 °C Not determined. Product is not selfigniting.
27 °C Flammable. 425 °C Not determined. Product is not selfigniting.
Flammable. 425 °C Not determined. Product is not selfigniting.
425 °C Not determined. Product is not selfigniting.
Not determined. Product is not selfigniting.
Product is not selfigniting.
Product is not explosive Hewever, formation of explosive
vapour mixtures are possible.
3.5 Vol %
15 Vol %
59 hPa
1.05 g/cm ³
Not determined.
Not determined.
Not determined.
Fully miscible.
Not determined.
Not determined.
Not determined.
Not determined.
20 - 40 %
20 - 40 % 40 - 60 %
20 - 40 %

10 Stability and Reactivity

· Reactivity No further relevant information available.

(Contd. on page 5)

⁻ AU

Revision: 13.12.2023

Version number 48

Trade name: Wash Buffer 4

- Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological Information

- · Information on toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.
- 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.
- · 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.

12 Ecological Information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · 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.

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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

(Contd. on page 6)

(Contd. of page 4)

Printing date 13.12.2023

Printing date 13.12.2023

Version number 48

Revision: 13.12.2023

(Contd. of page 5)

AU

Trade name: Wash Buffer 4

· Recommended cleansing agents: Water, if necessary together with cleansing agents.

UN-Number	
ADG, IMDG, IATA	UN1170
UN proper shipping name	
ADG	1170 ETHANOL SOLUTION (ETHYL ALCOHOL
IMDG	SOLUTION) ETHANOL SOLUTION (ETHYL ALCOHOL
	SOLUTION)
ΙΑΤΑ	ETHANOL SOLUTION
Transport hazard class(es)	
ADG, IMDG, IATA	
3	
Class	3 Flammable liquids.
Label	3
Packing group	
ADG, IMĎG, IATA	///
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids.
Hazard identification number (Kemler code): EMS Number:	
Stowage Category	F-E,S-D A
Transport in bulk according to Annex II of	~
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
-	Maximum net quantity per inner packaging: 30 ml
Transport category	Maximum net quantity per outer packaging: 1000 ml
Tunnel restriction code	D/E
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
-	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml



according to WHS Regulations

Printing date 13.12.2023

rev

Version number 48

Revision: 13.12.2023

(Contd. of page 6)

S5

Trade name: Wash Buffer 4

· UN "Model Regulation":

UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, III

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture

· Australian Inventory of Industrial Chemicals

7732-18-5 water, distilled, conductivity or of similar purity

64-17-5 ethanol

127-09-3 sodium acetate

78-93-3 butanone

Standard for the Uniform Scheduling of Medicines and Poisons

78-93-3 butanone

· Australia: Priority Existing Chemicals

None of the ingredients is listed.

· GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS). • Hazard pictograms



- · Signal word Warning
- Hazard statements

Flammable liquid and vapour.

· Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting equipment.

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

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower.

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

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category P5c FLAMMABLE LIQUIDS
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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.

(Contd. on page 8)

AU

Revision: 13.12.2023

revvity

Printing date 13.12.2023

Version number 48

Trade name: Wash Buffer 4

	(Contd. of page 7)
· Department issuing SDS: Department of Production	
· Contact: -	
· Abbreviations and acronyms:	
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreemen International Carriage of Dangerous Goods by Road)	nt Concerning the
IMDG: International Maritime Code for Dangerous Goods	
IATA: International Air Transport Association	
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)	
VOC: Volatile Organic Compounds (USA, EU)	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
Flam. Lig. 3: Flammable liquids – Category 3	
* Data compared to the previous version altered.	
	AU

according to WHS Regulations

Printing date 13.12.2023

rev

Version number 54

Revision: 13.12.2023

1 Identification

· Product identifier

- [·] Trade name: Wash Buffer 5
- · Relevant identified uses of the substance or mixture and uses advised against
- · Sector of Use -
- · Application of the substance / the mixture Product for analytical use
- · Details of the supplier of the safety data sheet
- *Manufacturer/Supplier:* Revvity chemagen Technologie GmbH Arnold-Sommerfeld-Ring 2 52499 BAESWEILER DEUTSCHLAND e-mail: support.chemagen@revvity.com
- Further information obtainable from: Emergency telephone number: CHEMTREC (within U.S.) 800 424-9300 CHEMTREC (from outside U.S.) +1-703-672-3887

2 Hazard(s) Identification

· Classification of the substance or mixture



Flam. Liq. 2 H225 Highly flammable liquid and vapour.

- · Label elements
- · GHS label elements
- The product is classified and labelled according to the Globally Harmonised System (GHS).
- · Hazard pictograms



- Signal word Danger
- · Hazard statements
- Highly flammable liquid and vapour.
- · Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. No smoking. Ground/bond container and receiving equipment.

- Use explosion-proof electrical/ventilating/lighting equipment.
- Wear protective gloves/protective clothing/eye protection/face protection.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower.

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

- · Other hazards
- Results of PBT and vPvB assessment
- · PBT: Not applicable.

(Contd. on page 2)

AU -

according to WHS Regulations

Printing date 13.12.2023

Levv

Version number 54

Revision: 13.12.2023

Trade name: Wash Buffer 5

(Contd. of page 1)

60-80%

20-40%

• **vPvB:** Not applicable.

3 Composition and Information on Ingredients

· Chemical characterisation: Mixtures

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

Dangerous components:

64-17-5 ethanol

· Additional information:

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

7732-18-5 water, distilled, conductivity or of similar purity

4 First Aid Measures

· General information: Immediately remove any clothing soiled by the product.

- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately rinse with water.
- After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- *Indication of any immediate medical attention and special treatment needed* No further relevant information available.

5 Fire Fighting Measures

Suitable extinguishing agents:

- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Protective equipment: No special measures required.

6 Accidental Release Measures

- Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- Environmental precautions:
- Dilute with plenty of water.
- Do not allow to enter sewers/ surface or ground water. **Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.
- *Reference to other sections* See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.

(Contd. on page 3)

AU

according to WHS Regulations

Printing date 13.12.2023

revv

Version number 54

Revision: 13.12.2023

Trade name: Wash Buffer 5

(Contd. of page 2)

See Section 13 for disposal information.

7 Handling and Storage

- · Handling:
- Precautions for safe handling No special precautions are necessary if used correctly.
- · Information about fire and explosion protection:
- Keep ignition sources away Do not smoke. Protect against electrostatic charges.
- · Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.
- Store in cool, dry conditions in well sealed receptacles.
- Specific end use(s) No further relevant information available.

8 Exposure controls and personal protection

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

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

64-17-5 ethanol

WES Long-term value: 1880 mg/m³, 1000 ppm

• Additional information: The lists valid during the making were used as basis.

- · Personal protective equipment:
- General protective and hygienic measures: Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.
- · Respiratory protection: Not required.
- Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• Material of gloves

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

• **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.

(Contd. on page 4)

AU -

according to WHS Regulations

Revision: 13.12.2023

Printing date 13.12.2023

Version number 54

Trade name: Wash Buffer 5

(Contd. of page 3)

• Eye protection:



revvity

Tightly sealed goggles

· General Information	
Appearance:	
· Form:	Fluid
· Colour:	According to product specification
· Odour:	Characteristic
· Odour threshold:	Not determined.
· pH-value:	Not determined.
Change in condition	
 Melting point/freezing point: 	Undetermined.
 Initial boiling point and boiling range 	
[.] Flash point:	18 °C
[.] Flammability (solid, gas):	Highly flammable.
Auto-ignition temperature:	425 °C
Decomposition temperature:	Not determined.
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation of explosive a
	vapour mixtures are possible.
Explosion limits:	
Lower:	3.5 Vol %
Upper:	15 Vol %
· Vapour pressure at 20 °C:	59 hPa
Density at 20 °C:	0.88 g/cm ³
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
· water:	Fully miscible.
· Partition coefficient: n-octanol/water	
· Viscosity:	
· Dynamic:	Not determined.
· Kinematic:	Not determined.
· Solvent content:	
· Organic solvents:	60 - 80 %
· Water:	20 - 40 %
· VOC (EC)	60 - 80 %

10 Stability and Reactivity

· Reactivity No further relevant information available.

(Contd. on page 5)

⁻ AU

Revision: 13.12.2023

Printing date 13.12.2023

Version number 54

Trade name: Wash Buffer 5

- Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological Information

- · Information on toxicological effects
- Acute toxicity Based on available data, the classification criteria are not met.
- · LD/LC50 values relevant for classification:

64-17-5 ethanol

LD50 7,060 mg/kg (rat) Oral

Inhalative LC50/4 h 20,000 mg/l (rat)

- · 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.
- · 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.

12 Ecological Information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- 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 svstem.

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.



(Contd. of page 4)

Revision: 13.12.2023

Trade name: Wash Buffer 5

(Contd. of page 5)

• Uncleaned packaging:
 • Recommendation: Disposal must be made according to official regulations.
 • Recommended cleansing agents: Water, if necessary together with cleansing agents.

UN-Number	
ADG, IMDG, IATA	UN1170
UN proper shipping name	
ADG	1170 ETHANOL SOLUTION (ETHYL ALCOHOL
IMDG	SOLUTION) ETHANOL SOLUTION (ETHYL ALCOHOL
	SOLUTION)
ΙΑΤΑ	ETHANOL SOLUTION
Transport hazard class(es)	
ADG, IMDG, IATA	
Class	3 Flammable liquids.
Label	3
Packing group ADG, IMDG, IATA	11
Environmental hazards:	
Marine pollutant:	No
Special precautions for user Hazard identification number (Kemler code):	Warning: Flammable liquids.
EMS Number:	55 F-E,S-D
Stowage Category	A
Transport in bulk according to Annex II of	
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADG	
Limited quantities (LQ)	1L Codo: E2
Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
Transport category	2
Tunnel restriction code	D/E
IMDG Limited quantities (LQ)	1L



Printing date 13.12.2023

Version number 54

according to WHS Regulations

Printing date 13.12.2023

Version number 54

Revision: 13.12.2023

(Contd. of page 6)

Trade name: Wash Buffer 5

• Excepted quantities (EQ)

Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

· UN "Model Regulation":

UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, II

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture

· Australian Inventory of Industrial Chemicals

All ingredients are listed.

· Standard for the Uniform Scheduling of Medicines and Poisons

None of the ingredients is listed.

· Australia: Priority Existing Chemicals

None of the ingredients is listed.

· GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS). • **Hazard pictograms**





· Signal word Danger

· Hazard statements

Highly flammable liquid and vapour.

Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting equipment.

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

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower.

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

- · Directive 2012/18/EU
- Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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.

· Department issuing SDS: Department of Production

AU

Revision: 13.12.2023

revvity

Printing date 13.12.2023

Version number 54

Trade name: Wash Buffer 5

(Contd. of page 7) · Contact: -• Abbreviations and acronyms: ADR: Accord relatif au transport international 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 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) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids – Category 2 * * Data compared to the previous version altered.

according to WHS Regulations

Printing date 05.01.2024

Levv

Version number 4

Revision: 05.01.2024

1 Identification

· Product identifier

- · Trade name: Wash Buffer 6
- · CAS Number: 7732-18-5
- EC number:
- 231-791-2
- · Relevant identified uses of the substance or mixture and uses advised against
- Sector of Use -
- · Application of the substance / the mixture Product for analytical use
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: Revvity chemagen Technologie GmbH Arnold-Sommerfeld-Ring 2 52499 BAESWEILER DEUTSCHLAND e-mail: support.chemagen@revvity.com
- · Further information obtainable from: -
- Emergency telephone number: CHEMTREC (within U.S.) 800 424-9300 CHEMTREC (from outside U.S.) +1-703-672-3887

2 Hazard(s) Identification

• Classification of the substance or mixture The substance is not classified, according to the Globally Harmonised System (GHS).

· Label elements

- · GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

3 Composition and Information on Ingredients

- · Chemical characterisation: Substances
- · CAS No. Description
- 7732-18-5 water, distilled, conductivity or of similar purity
- · Identification number(s)
- EC number: 231-791-2

4 First Aid Measures

- · General information: No special measures required.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.

(Contd. on page 2)

- AU

Revision: 05.01.2024

Version number 4

Trade name: Wash Buffer 6

(Contd. of page 1)

· After swallowing: If symptoms persist consult doctor.

- Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire Fighting Measures

- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- Special hazards arising from the substance or mixture No further relevant information available.
- · Protective equipment: No special measures required.

6 Accidental Release Measures

· Personal precautions, protective equipment and emergency procedures Not required.

- · Environmental precautions: Dilute with plenty of water.
- · Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- 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.

7 Handling and Storage

- · Handling:
- · Precautions for safe handling No special measures required.
- · Information about fire and explosion protection: No special measures required.
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · Specific end use(s) No further relevant information available.

8 Exposure controls and personal protection

- · Additional information about design of technical facilities: No further data; see section 7.
- · Ingredients with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists valid during the making were used as basis.
- · Personal protective equipment:
- · General protective and hygienic measures:
- The usual precautionary measures are to be adhered to when handling chemicals.
- · Respiratory protection: Not required.
- · Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

(Contd. on page 3)

AU

Printing date 05.01.2024

ſeŴ

Version number 4

Revision: 05.01.2024

Trade name: Wash Buffer 6

Printing date 05.01.2024

(Contd. of page 2) Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• **Material of gloves** 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: Goggles recommended during refilling

General Information	
Appearance:	
Form:	Fluid
Colour:	Colourless
Odour:	Odourless
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	Not determined.
Melting point/freezing point:	0 °C
Initial boiling point and boiling range:	
Flash point:	Not applicable.
Flammability (solid, gas):	Not applicable.
Decomposition temperature:	Not determined.
Ignition temperature:	Not determined.
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 at 20 °C:	1 g/cm ³
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
water:	Fully miscible.
Partition coefficient: n-octanol/water:	
Viscosity:	
Dynamic at 20 °C:	0.952 mPas
Kinematic:	Not determined.
Water:	80 - 100 %

10 Stability and Reactivity

· Reactivity No further relevant information available.

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

(Contd. on page 4)



AU

Revision: 05.01.2024

(Contd. of page 3)

Printing date 05.01.2024

Version number 4

Trade name: Wash Buffer 6

- · Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological Information

· Information on toxicological effects

- · Acute toxicity Based on available data, the classification criteria are not met.
- · 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.
- 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.

12 Ecological Information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes: Not hazardous for water.
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation Smaller quantities can be disposed of with household waste.
- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

14 Transport information

- · UN-Number
- · ADG, ADN, IMDG, IATA

not regulated

(Contd. on page 5)



AU -

according to WHS Regulations

Printing date 05.01.2024

IEVVI

Version number 4

Revision: 05.01.2024

Trade name: Wash Buffer 6

		(Contd. of page
· UN proper shipping name · ADG, ADN, IMDG, IATA	not regulated	
· Transport hazard class(es)		
· ADG, ADN, IMDG, IATA		
· Class	not regulated	
· Packing group		
· ADG, IMDG, IATA	not regulated	
· Environmental hazards:		
· Marine pollutant:	No	
· Special precautions for user	Not applicable.	
· Transport in bulk according to Ann	ex II of	
Marpol and the IBC Code	Not applicable.	
· UN "Model Regulation":	not regulated	

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture

· Australian Inventory of Industrial Chemicals

Substance is listed.

· Standard for the Uniform Scheduling of Medicines and Poisons

Substance is not listed.

· Australia: Priority Existing Chemicals

Substance is not listed.

- · GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void

· Directive 2012/18/EU

- · Named dangerous substances ANNEX I Substance is not listed.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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.

· Department issuing SDS: Department of Production

- Contact: -
- · Abbreviations and acronyms:

ADR: Accord relatif au transport international 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 EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

(Contd. on page 6)

⁻ AU

Version number 4

Revision: 05.01.2024

Trade name: Wash Buffer 6

Printing date 05.01.2024

vPvB: very Persistent and very Bioaccumulative

* Data compared to the previous version altered.

revvity

(Contd. of page 5)

- AU

according to WHS Regulations

Printing date 05.01.2024

Levv

Version number 64

Revision: 05.01.2024

1 Identification

· Product identifier

- Trade name: Elution Buffer 7
- · Relevant identified uses of the substance or mixture and uses advised against
- · Sector of Use -
- · Application of the substance / the mixture Product for analytical use
- · Details of the supplier of the safety data sheet
- *Manufacturer/Supplier:* Revvity chemagen Technologie GmbH Arnold-Sommerfeld-Ring 2 52499 BAESWEILER DEUTSCHLAND e-mail: support.chemagen@revvity.com
- Further information obtainable from: Emergency telephone number: CHEMTREC (within U.S.) 800 424-9300 CHEMTREC (from outside U.S.) +1-703-672-3887

2 Hazard(s) Identification

- *Classification of the substance or mixture* The product is not classified, according to the Globally Harmonised System (GHS).
- · Label elements
- · GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

3 Composition and Information on Ingredients

- · 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.
- 7732-18-5 water, distilled, conductivity or of similar purity
 - 77-86-1 trometamol

4 First Aid Measures

- · General information: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.

(Contd. on page 2)

80-100%

0.75-1.5%

AU

Version number 64

Revision: 05.01.2024

Trade name: Elution Buffer 7

(Contd. of page 1)

· Information for doctor:

- *Most important symptoms and effects, both acute and delayed* No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire Fighting Measures

· Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

- Special hazards arising from the substance or mixture No further relevant information available.
- · Protective equipment: No special measures required.

6 Accidental Release Measures

· Personal precautions, protective equipment and emergency procedures Not required.

- Environmental precautions: Dilute with plenty of water.
- Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- · 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.

7 Handling and Storage

· Handling:

- · Precautions for safe handling No special measures required.
- · Information about fire and explosion protection: No special measures required.
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · Specific end use(s) No further relevant information available.

8 Exposure controls and personal protection

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

- · Additional information: The lists valid during the making were used as basis.
- · Personal protective equipment:
- General protective and hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals.
- Respiratory protection: Not required.
- Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

(Contd. on page 3)



Printing date 05.01.2024

Version num

AU

Safety Data Sheet

according to WHS Regulations

Revision: 05.01.2024

Printing date 05.01.2024

Version number 64

Trade name: Elution Buffer 7

(Contd. of page 2) Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

• **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: Goggles recommended during refilling

General Information		
Appearance:		
Form:	Fluid	
Colour:	According to product specification	
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:	Not applicable.	
Flammability (solid, gas):	Not applicable.	
Decomposition temperature:	Not determined.	
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:	Fully miscible.	
Partition coefficient: n-octanol/water:	Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		



according to WHS Regulations

Printing date 05.01.2024

revvit

Version number 64

Revision: 05.01.2024

(Contd. of page 3)

Trade name: Elution Buffer 7

• Other information

No further relevant information available.

10 Stability and Reactivity

- · Reactivity No further relevant information available.
- · Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- · *Incompatible materials:* No further relevant information available.
- · *Hazardous decomposition products:* No dangerous decomposition products known.

11 Toxicological Information

· Information on toxicological effects

- · Acute toxicity Based on available data, the classification criteria are not met.
- · 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.
- 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.

12 Ecological Information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes: Not hazardous for water.
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- *Recommendation* Smaller quantities can be disposed of with household waste.

(Contd. on page 5)

AU

according to WHS Regulations

Revision: 05.01.2024

Trade name: Elution Buffer 7

(Contd. of page 4)

· Uncleaned packaging:

- **Recommendation:** Disposal must be made according to official regulations.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

UN-Number		
ADG, ADN, IMDG, IATA	not regulated	
UN proper shipping name		
ADG, ADN, IMDG, IATA	not regulated	
Transport hazard class(es)		
ADG, ADN, IMDG, IATA		
Class	not regulated	
Packing group		
ADG, IMDG, IATA	not regulated	
Environmental hazards:		
Marine pollutant:	No	
Special precautions for user	Not applicable.	
Transport in bulk according to Ann	ex II of	
Marpol and the IBC Code	Not applicable.	

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture

· Australian Inventory of Industrial Chemicals

All ingredients are listed.

Standard for the Uniform Scheduling of Medicines and Poisons

77-86-1 trometamol

· Australia: Priority Existing Chemicals

None of the ingredients is listed.

· GHS label elements Void

· Hazard pictograms Void

· Signal word Void

· Hazard statements Void

· Directive 2012/18/EU

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

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

(Contd. on page 6)

S4



Printing date 05.01.2024

Version number 64

Version number 64

Revision: 05.01.2024

Trade name: Elution Buffer 7

Printing date 05.01.2024

(Contd. of page 5)

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.

- · Department issuing SDS: Department of Production
- · Contact: -

IEVVI

Abbreviations and acronyms:
 ADR: Accord relatif au transport international 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
 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
 * Data compared to the previous version altered.

according to WHS Regulations

Printing date 13.12.2023

rev

Version number 30

Revision: 13.12.2023

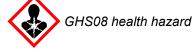
1 Identification

· Product identifier

- · Trade name: Proteinase K
- CAS Number: 39450-01-6
- · EC number:
- 254-457-8
- · Relevant identified uses of the substance or mixture and uses advised against
- · Sector of Use -
- · Application of the substance / the mixture Product for analytical use
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: Revvity chemagen Technologie GmbH Arnold-Sommerfeld-Ring 2 52499 BAESWEILER DEUTSCHLAND e-mail: support.chemagen@revvity.com
- · Further information obtainable from: -
- Emergency telephone number: CHEMTREC (within U.S.) 800 424-9300 CHEMTREC (from outside U.S.) +1-703-672-3887

2 Hazard(s) Identification

· Classification of the substance or mixture



Resp. Sens. 1

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

GHS07

Skin Irrit. 2H315 Causes skin irritation.Serious eye damage/irritation – Category 2AH319 Causes serious eye irritation.STOT SE 3H335 May cause respiratory irritation.

· Label elements

· GHS label elements

The substance is classified and labelled according to the Globally Harmonised System (GHS). • Hazard pictograms



· Signal word Danger

• Hazard-determining components of labelling: Proteinase, Tritirachium album serine

(Contd. on page 2)

⁻ AU

Printing date 13.12.2023

ſeŴſ

Version number 30

Revision: 13.12.2023

Trade name: Proteinase K

(Contd. of page 1)

· Hazard statements Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.

- · Precautionary statements Avoid breathing dust/fume/gas/mist/vapours/spray. Wear eve protection / face protection. Wear respiratory protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

3 Composition and Information on Ingredients

- · Chemical characterisation: Substances
- CAS No. Description 39450-01-6 Proteinase, Tritirachium album serine · Identification number(s)
- · EC number: 254-457-8

4 First Aid Measures

- · General information: Immediately remove any clothing soiled by the product.
- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eve contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. • After swallowing: If symptoms persist consult doctor.

- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire Fighting Measures

· Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

- Special hazards arising from the substance or mixture No further relevant information available.
- · Protective equipment: No special measures required.

6 Accidental Release Measures

· Personal precautions, protective equipment and emergency procedures Not required.

Revision: 13.12.2023

revvity

Printing date 13.12.2023

Version number 30

Trade name: Proteinase K

(Contd. of page 2)

Environmental precautions: No special measures required.

 Methods and material for containment and cleaning up: Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.
 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.

7 Handling and Storage

- · Handling:
- · Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- · Information about fire and explosion protection: No special measures required.
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.
- Specific end use(s) No further relevant information available.

8 Exposure controls and personal protection

- · Additional information about design of technical facilities: No further data; see section 7.
- · Ingredients with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists valid during the making were used as basis.
- · Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.
- Respiratory protection:

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

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

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.

(Contd. on page 4)

according to WHS Regulations

Revision: 13.12.2023

Printing date 13.12.2023

revvit

Version number 30

Trade name: Proteinase K

(Contd. of page 3)

• Eye protection:



Tightly sealed goggles

General Information	
Appearance:	
Form:	Solid
Colour:	Not determined.
Odour:	Characteristic
Odour threshold:	Not determined.
pH-value:	
Change in condition	Not applicable.
	Undetermined.
Melting point/freezing point: Initial boiling point and boiling range:	
Flash point:	Not applicable. Product is not flammable.
Flammability (solid, gas):	Not determined.
Decomposition temperature:	
Ignition temperature:	Not determined.
Explosive properties:	Product does not present an explosion hazard.
Explosion limits:	Net determined
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure:	Not applicable.
Density at 20 °C:	1.1 g/cm ³
Relative density	Not determined.
Vapour density	Not applicable.
Evaporation rate	Not applicable.
Solubility in / Miscibility with	0 / / /
water:	Soluble.
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
Solids content:	100.0 %
Other information	No further relevant information available.

10 Stability and Reactivity

· Reactivity No further relevant information available.

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.

(Contd. on page 5)

– AU

according to WHS Regulations

Printing date 13.12.2023

Version number 30

Revision: 13.12.2023

Trade name: Proteinase K

(Contd. of page 4)

· Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological Information

· Information on toxicological effects

- Acute toxicity Based on available data, the classification criteria are not met.
- · Skin corrosion/irritation Causes skin irritation.
- · Serious eye damage/irritation Causes serious eye irritation.
- · Respiratory or skin sensitisation
- May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- 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 May cause respiratory irritation.
- · 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.

12 Ecological Information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes: Not hazardous for water.
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation
- Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

14 Transport information

- · UN-Number
- · ADG, ADN, IMDG, IATA

not regulated

(Contd. on page 6)



٩Ū -

according to WHS Regulations

Printing date 13.12.2023

ſeŴ

Version number 30

Revision: 13.12.2023

Trade name: Proteinase K

		(Contd. of page
UN proper shipping name ADG, ADN, IMDG, IATA	not regulated	
Transport hazard class(es)		
ADG, ADN, IMDG, IATA Class	not regulated	
Packing group ADG, IMDG, IATA	not regulated	
Environmental hazards: Marine pollutant:	No	
Special precautions for user	Not applicable.	
Transport in bulk according to Ann Marpol and the IBC Code	ex II of Not applicable.	
UN "Model Regulation":	not regulated	

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture

· Australian Inventory of Industrial Chemicals

Substance is not listed.

· Standard for the Uniform Scheduling of Medicines and Poisons

Substance is not listed.

· Australia: Priority Existing Chemicals

Substance is not listed.

· GHS label elements

The substance is classified and labelled according to the Globally Harmonised System (GHS). • Hazard pictograms



· Signal word Danger

• *Hazard-determining components of labelling: Proteinase, Tritirachium album serine*

Hazard statements

 Causes skin irritation.
 Causes serious eye irritation.
 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 May cause respiratory irritation.

 Precautionary statements

Avoid breathing dust/fume/gas/mist/vapours/spray. Wear eye protection / face protection.

(Contd. on page 7)

AU

Version number 30

Revision: 13.12.2023

Trade name: Proteinase K

Wear respiratory protection.

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

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

· Directive 2012/18/EU

- · Named dangerous substances ANNEX I Substance is not listed.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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.

- · Department issuing SDS: Department of Production
- · Contact: -
- Abbreviations and acronyms:

ADR: Accord relatif au transport international 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 EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Skin Irrit. 2: Skin corrosion/irritation – Category 2 Serious eye damage/irritation - Category 2A: Serious eye damage/eye irritation - Category 2A Resp. Sens. 1: Respiratory sensitisation - Category 1 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 • * Data compared to the previous version altered.



(Contd. of page 6)

Printing date 13.12.2023