22.02.2024	Kit components
Product code	Description
3223-0010	Vanadis Core® Buffer kit
Components:	
13808584	Vanadis Core® Buffer kit, Wash Buffer
13808585	Vanadis Core® Buffer kit, Diluent Buffer
13808695	Vanadis Core® Buffer kit, Detergent



Printing date 22.02.2024

Version number 2 (replaces version 1)

Revision: 03.11.2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking · 1.1 Product identifier · Trade name: Vanadis Core® Buffer kit, Wash Buffer · Article number: 13808584 1.2 Relevant identified uses of the substance or mixture and uses advised against · Product category PC21 Laboratory chemicals · Application of the substance / the mixture Laboratory chemicals • 1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier: Revvity Inc. Wallac Oy P.O. Box 10 FI-20101 Turku Finland +358 2 2678 111 • Further information obtainable from: Product safety department. MSDS Turku@revvity.com 1.4 Emergency telephone number: CHEMTREC (whithin U.S.) 800 424-9300 CHEMTREC (from outside U.S.) +1-703-572-3887 **SECTION 2: Hazards identification** · 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 The product is not classified, according to the CLP regulation. · 2.2 Label elements · Labelling according to Regulation (EC) No 1272/2008 and 98/79 Void · Hazard pictograms Void · Signal word Void · Hazard statements Void · 2.3 Other hazards · Results of PBT and vPvB assessment · PBT: Not applicable. · vPvB: Not applicable. **SECTION 3: Composition/information on ingredients** · 3.2 Mixtures · Description: Mixture of substances listed below with nonhazardous additions. · Dangerous components: Void · Other ingredients CAS: 7732-18-5 95-100% water EINECS: 231-791-2 (Contd. on page 2)

Printing date 22.02.2024

Version number 2 (replaces version 1)

Revision: 03.11.2023

### Trade name: Vanadis Core® Buffer kit, Wash Buffer

		(Contd. of page 1)
CAS: 7647-14-5	sodium chloride	<1%
EINECS: 231-598-3		
CAS: 18996-35-5	sodium dihydrogen citrate	<0.25%
EINECS: 242-734-6		
· Additional informat	ion: For the wording of the listed hazard phrases refer to section 16.	

# **SECTION 4: First aid measures**

• 4.1 Description of first aid measures

· General information: 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.

• 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

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

No further relevant information available.

# **SECTION 5: Firefighting measures**

· 5.1 Extinguishing media

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

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

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

• 6.1 Personal precautions, protective equipment and emergency procedures Not required.

• 6.2 Environmental precautions: Dilute with plenty of water.

• 6.3 Methods and material for containment and cleaning up:

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

· 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

# **SECTION 7: Handling and storage**

· 7.1 Precautions for safe handling No special measures required.

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

• 7.2 Conditions for safe storage, including any incompatibilities

• Storage:

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

- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.

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

(Contd. on page 3)

Printing date 22.02.2024

Version number 2 (replaces version 1)

Revision: 03.11.2023

### Trade name: Vanadis Core® Buffer kit, Wash Buffer

(Contd. of page 2)

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

### · 8.1 Control parameters

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

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

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

#### · 8.2 Exposure controls

- Appropriate engineering controls No further data; see section 7.
- · Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:
- The usual precautionary measures are to be adhered to when handling chemicals.
- · Respiratory protection: Not required.
- · Hand protection

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.

· Eye/face protection Goggles recommended during refilling

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

• 9.1 Information on basic physical and chemical properties		
· General Information		
· Physical state	Fluid	
· Colour:	Colourless	
· Odour:	Odourless	
· Odour threshold:	Not determined.	
• Melting point/freezing point:	$0 \ ^{\circ}C$	
Boiling point or initial boiling point and boiling		
range	100 °C (7732-18-5 water)	
· Flammability	Not applicable.	
Lower and upper explosion limit		
·Lower:	Not determined.	
· Upper:	Not determined.	
· Flash point:	Not applicable.	
Decomposition temperature:	Not determined.	
· pH at 20 °C	7	
· Viscosity:		
Kinematic viscosity	Not determined.	
Dynamic at 20 °C:	0.952 mPas	
· Solubility		
water:	Fully miscible.	
· Partition coefficient n-octanol/water (log value)	Not determined.	
· Vapour pressure at 20 °C:	23 hPa (7732-18-5 water)	
· Density and/or relative density		
Density at 20 °C:	1.02 g/cm <sup>3</sup>	

Printing date 22.02.2024

Version number 2 (replaces version 1)

Revision: 03.11.2023

### Trade name: Vanadis Core® Buffer kit, Wash Buffer

	(Contd. of page
Relative density	Not determined.
Vapour density	Not determined.
9.2 Other information	
Appearance:	
Form:	Fluid
Important information on protection of heal	th and
environment, and on safety.	
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Solvent content:	
Water:	99.4 %
Solids content:	0.0 %
Molecular weight	18.02 g/mol
Change in condition	
Evaporation rate	Not determined.
Information with regard to physical hazard	classes
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flamm	able
gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

## **SECTION 10: Stability and reactivity**

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

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

## **SECTION 11: Toxicological information**

 $\cdot$  11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

• 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.

 $\cdot$  **Reproductive toxicity** Based on available data, the classification criteria are not met.

(Contd. on page 5)

- El

according to 1907/2006/EC, Article 31

*Printing date 22.02.2024* 

*Version number 2 (replaces version 1)* 

Revision: 03.11.2023

(Contd. of page 4)

### Trade name: Vanadis Core® Buffer kit, Wash Buffer

- · STOT-single exposure Based on available data, the classification criteria are not met.
- $\cdot \textit{STOT-repeated exposure} \textit{ Based on available data, the classification criteria are not met.}$
- Aspiration hazard Based on available data, the classification criteria are not met.
- 11.2 Information on other hazards

• Endocrine disrupting properties

None of the ingredients is listed.

# **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
- *PBT:* Not applicable.
- · vPvB: Not applicable.
- · 12.6 Endocrine disrupting properties
- The product does not contain substances with endocrine disrupting properties.
- 12.7 Other adverse effects
- Additional ecological information:
- · General notes: Not hazardous for water.

# **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- · Recommendation Smaller quantities can be disposed of with household waste.
- Uncleaned packaging:
- · Recommendation: Hand over to hazardous waste disposers.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

# **SECTION 14: Transport information**

· 14.1 UN number or ID number · ADR, IMDG, IATA	Void	
· 14.2 UN proper shipping name · ADR, IMDG, IATA	Void	
· 14.3 Transport hazard class(es)		
ADR, ADN, IMDG, IATA Class	Void	
· 14.4 Packing group · ADR, IMDG, IATA	Void	
· 14.5 Environmental hazards:	Not applicable.	
· 14.6 Special precautions for user	Not applicable.	
• 14.7 Maritime transport in bulk according instruments	<b>g to IMO</b> Not applicable.	
· UN "Model Regulation":	Void	

(Contd. on page 6)

according to 190//2000/EC, Article

Printing date 22.02.2024

Version number 2 (replaces version 1)

Revision: 03.11.2023

### Trade name: Vanadis Core® Buffer kit, Wash Buffer

(Contd. of page 5)

# **SECTION 15: Regulatory information**

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

· Directive 2012/18/EU

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

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

• Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

### · Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

### · Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

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

### **SECTION 16: Other information**

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

· Department issuing SDS: Product safety department.

· Contact: MSDS Turku@revvity.com

• Date of previous version: 03.11.2023

· Version number of previous version: 1

• 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

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent. Bioaccumulative and Toxic

*vPvB: very Persistent and very Bioaccumulative* 

• \* Data compared to the previous version altered.

EU -



Printing date 22.02.2024

Version number 2 (replaces version 1)

Revision: 03.11.2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking · 1.1 Product identifier · Trade name: Vanadis Core® Buffer kit, Diluent Buffer · Article number: 13808585 1.2 Relevant identified uses of the substance or mixture and uses advised against · Product category PC21 Laboratory chemicals · Application of the substance / the mixture Laboratory chemicals • 1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier: Revvity Inc. Wallac Oy P.O. Box 10 FI-20101 Turku Finland +358 2 2678 111 • Further information obtainable from: Product safety department. MSDS Turku@revvity.com 1.4 Emergency telephone number: CHEMTREC (whithin U.S.) 800 424-9300 CHEMTREC (from outside U.S.) +1-703-572-3887 **SECTION 2: Hazards identification** · 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 The product is not classified, according to the CLP regulation. · 2.2 Label elements · Labelling according to Regulation (EC) No 1272/2008 and 98/79 Void · Hazard pictograms Void · Signal word Void · Hazard statements Void · 2.3 Other hazards · Results of PBT and vPvB assessment · PBT: Not applicable. · vPvB: Not applicable. **SECTION 3: Composition/information on ingredients** · 3.2 Mixtures · Description: Mixture of substances listed below with nonhazardous additions. · Dangerous components: Void · Other ingredients CAS: 7732-18-5 95-100% water EINECS: 231-791-2 (Contd. on page 2)

Printing date 22.02.2024

Version number 2 (replaces version 1)

Revision: 03.11.2023

### Trade name: Vanadis Core® Buffer kit, Diluent Buffer

	,	(Contd. of page 1)
CAS: 7647-14-5	sodium chloride	1-2.5%
EINECS: 231-598-3		
CAS: 18996-35-5	sodium dihydrogen citrate	<1%
EINECS: 242-734-6		
• Additional informat	<i>ion:</i> For the wording of the listed hazard phrases refer to section 16.	

# **SECTION 4: First aid measures**

• 4.1 Description of first aid measures

• General information: 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.

· 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

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

No further relevant information available.

# **SECTION 5: Firefighting measures**

· 5.1 Extinguishing media

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

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

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

• 6.1 Personal precautions, protective equipment and emergency procedures Not required.

• 6.2 Environmental precautions: Dilute with plenty of water.

• 6.3 Methods and material for containment and cleaning up:

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

• 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

# **SECTION 7: Handling and storage**

· 7.1 Precautions for safe handling No special measures required.

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

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

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

- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.

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

(Contd. on page 3)

Printing date 22.02.2024

Version number 2 (replaces version 1)

Revision: 03.11.2023

### Trade name: Vanadis Core® Buffer kit, Diluent Buffer

(Contd. of page 2)

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

### · 8.1 Control parameters

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

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

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

#### · 8.2 Exposure controls

- Appropriate engineering controls No further data; see section 7.
- · Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:
- The usual precautionary measures are to be adhered to when handling chemicals.
- · Respiratory protection: Not required.
- · Hand protection

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.

· Eye/face protection Goggles recommended during refilling

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

• 9.1 Information on basic physical and chemical properties		
· General Information		
· Physical state	Fluid	
· Colour:	Colourless	
· Odour:	Sulfurous	
· Odour threshold:	Not determined.	
• Melting point/freezing point:	0 °C	
Boiling point or initial boiling point and boiling		
range	100 °C (7732-18-5 water)	
· Flammability	Not applicable.	
· Lower and upper explosion limit		
· Lower:	Not determined.	
· Upper:	Not determined.	
· Flash point:	Not applicable.	
Decomposition temperature:	Not determined.	
· pH at 20 °C	7	
· Viscosity:		
Kinematic viscosity	Not determined.	
· Dynamic at 20 °C:	0.952 mPas	
Solubility		
water:	Fully miscible.	
· Partition coefficient n-octanol/water (log value)	Not determined.	
· Vapour pressure at 20 °C:	23 hPa (7732-18-5 water)	
· Density and/or relative density		
Density at 20 °C:	1.02 g/cm <sup>3</sup>	

Printing date 22.02.2024

Version number 2 (replaces version 1)

Revision: 03.11.2023

### Trade name: Vanadis Core® Buffer kit, Diluent Buffer

	(Contd. of page
Relative density	Not determined.
Vapour density	Not determined.
9.2 Other information	
Appearance:	
Form:	Fluid
Important information on protection of heal	lth and
environment, and on safety.	
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Solvent content:	
Water:	97.5 %
Solids content:	0.0 %
Molecular weight	18.02 g/mol
Change in condition	
Evaporation rate	Not determined.
Information with regard to physical hazard o	classes
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flamm	able
gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

## **SECTION 10: Stability and reactivity**

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

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

## **SECTION 11: Toxicological information**

 $\cdot$  11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

• 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.

 $\cdot$  **Reproductive toxicity** Based on available data, the classification criteria are not met.

(Contd. on page 5)

- El

according to 1907/2006/EC, Article 31

Printing date 22.02.2024

*Version number 2 (replaces version 1)* 

Revision: 03.11.2023

(Contd. of page 4)

### Trade name: Vanadis Core® Buffer kit, Diluent Buffer

- · 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.
- 11.2 Information on other hazards

• Endocrine disrupting properties

None of the ingredients is listed.

## **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
- *PBT:* Not applicable.
- · vPvB: Not applicable.
- · 12.6 Endocrine disrupting properties
- The product does not contain substances with endocrine disrupting properties.
- 12.7 Other adverse effects
- Additional ecological information:
- · General notes: Not hazardous for water.

# **SECTION 13: Disposal considerations**

· 13.1 Waste treatment methods

- · Recommendation Smaller quantities can be disposed of with household waste.
- Uncleaned packaging:
- · Recommendation: Hand over to hazardous waste disposers.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

# **SECTION 14: Transport information**

· 14.1 UN number or ID number · ADR, IMDG, IATA	Void	
· 14.2 UN proper shipping name · ADR, IMDG, IATA	Void	
· 14.3 Transport hazard class(es)	, ora	
· ADR, ADN, IMDG, IATA · Class	Void	
· 14.4 Packing group · ADR, IMDG, IATA	Void	
· 14.5 Environmental hazards:	Not applicable.	
· 14.6 Special precautions for user	Not applicable.	
• 14.7 Maritime transport in bulk according instruments	<b>g to IMO</b> Not applicable.	
· UN "Model Regulation":	Void	

(Contd. on page 6)

according to 1907/2006/EC, Article 31

Printing date 22.02.2024

Version number 2 (replaces version 1)

Revision: 03.11.2023

### Trade name: Vanadis Core® Buffer kit, Diluent Buffer

(Contd. of page 5)

# **SECTION 15: Regulatory information**

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

· Directive 2012/18/EU

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

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

• Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

### · Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

### · Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

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

### **SECTION 16: Other information**

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

· Department issuing SDS: Product safety department.

· Contact: MSDS Turku@revvity.com

• Date of previous version: 03.11.2023

· Version number of previous version: 1

• 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

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent. Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

• \* Data compared to the previous version altered.



Printing date 22.02.2024

Version number 2 (replaces version 1)

Revision: 03.11.2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking · 1.1 Product identifier · Trade name: Vanadis Core® Buffer kit, Detergent · Article number: 13808695 1.2 Relevant identified uses of the substance or mixture and uses advised against · Product category PC21 Laboratory chemicals · Application of the substance / the mixture Laboratory chemicals • 1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier: Revvity Inc. Wallac Oy P.O. Box 10 FI-20101 Turku Finland +358 2 2678 111 • Further information obtainable from: Product safety department. MSDS Turku@revvity.com 1.4 Emergency telephone number: CHEMTREC (whithin U.S.) 800 424-9300 CHEMTREC (from outside U.S.) +1-703-572-3887 **SECTION 2: Hazards identification** · 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 The product is not classified, according to the CLP regulation. · 2.2 Label elements · Labelling according to Regulation (EC) No 1272/2008 and 98/79 Void · Hazard pictograms Void · Signal word Void · Hazard statements Void · 2.3 Other hazards · Results of PBT and vPvB assessment · PBT: Not applicable. · vPvB: Not applicable. **SECTION 3: Composition/information on ingredients** · 3.2 Mixtures · Description: Mixture of substances listed below with nonhazardous additions. · Dangerous components: Void · Other ingredients CAS: 7732-18-5 50-75% water EINECS: 231-791-2 (Contd. on page 2)

Printing date 22.02.2024

Version number 2 (replaces version 1)

Revision: 03.11.2023

### Trade name: Vanadis Core® Buffer kit, Detergent

	(Cu	ontd. of page 1)
CAS: 9005-64-5 NLP: 500-018-3	Polysorbate 20	25-50%
CAS: 7647-14-5 EINECS: 231-598-3	sodium chloride	<1%
CAS: 77-86-1	trometamol	<1%
EINECS: 201-064-4	in Fourthe wording of the listed hazand physics refer to section 16	

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

# **SECTION 4: First aid measures**

- 4.1 Description of first aid measures
- General information: 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.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

# **SECTION 5: Firefighting measures**

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

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

- 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- 6.2 Environmental precautions: Dilute with plenty of water.
- 6.3 Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- · 6.4 Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

# **SECTION 7: Handling and storage**

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

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

### · 8.1 Control parameters

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

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

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

#### · 8.2 Exposure controls

- Appropriate engineering controls No further data; see section 7.
- · Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:
- The usual precautionary measures are to be adhered to when handling chemicals.
- · Respiratory protection: Not required.
- · Hand protection

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.

· Eye/face protection Goggles recommended during refilling

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

· 9.1 Information on basic physical and chemical p	roperties
· General Information	
· Physical state	Fluid
· Colour:	Yellowish
· Odour:	Sulfurous
· Odour threshold:	Not determined.
• Melting point/freezing point:	Undetermined.
Boiling point or initial boiling point and boiling	
range	100 °C (7732-18-5 water)
· Flammability	Not applicable.
· Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	149 °C (9005-64-5 Polysorbate 20)
• Decomposition temperature:	Not determined.
· pH at 20 °C	7.45-7.65
· Viscosity:	
Kinematic viscosity	Not determined.
Dynamic:	Not determined.
· Solubility	
· water:	Fully miscible.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure at 20 °C:	23 hPa (7732-18-5 water)
· Density and/or relative density	
Density at 20 °C:	$1.05-1.06 \text{ g/cm}^3$

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Relative density	Not determined.
Vapour density	Not determined.
9.2 Other information	
Appearance:	
Form:	Liquid
Important information on protection of heal environment, and on safety.	th and
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Solvent content:	I I I I I I I I I I I I I I I I I I I
Water:	57.9 %
Solids content:	0.0 %
Change in condition	
Evaporation rate	Not determined.
Information with regard to physical hazard of	classes
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flamm	able
gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

### **SECTION 10: Stability and reactivity**

· 10.1 Reactivity No further relevant information available.

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

## **SECTION 11: Toxicological information**

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- 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.*
- $\cdot \textit{STOT-single exposure Based on available data, the classification criteria are not met.}$

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according to 1907/2006/EC, Article 31

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- · 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.
- · 11.2 Information on other hazards
- · Endocrine disrupting properties

None of the ingredients is listed.

# **SECTION 12: Ecological information**

### · 12.1 Toxicity

- · Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
- *PBT:* Not applicable.
- **vPvB:** Not applicable.
- · 12.6 Endocrine disrupting properties
- The product does not contain substances with endocrine disrupting properties.
- 12.7 Other adverse effects
- Additional ecological information:
- · General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

## **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- · Recommendation Smaller quantities can be disposed of with household waste.
- · Uncleaned packaging:
- Recommendation: Hand over to hazardous waste disposers.
- *Recommended cleansing agents: Water, if necessary together with cleansing agents.*

14.1 UN number or ID number		
ADR, IMDG, IATA	Void	
14.2 UN proper shipping name		
ADR, IMDG, IATA	Void	
14.3 Transport hazard class(es)		
ADR, ADN, IMDG, IATA		
Class	Void	
14.4 Packing group		
ADR, IMDĞ, İATA	Void	
14.5 Environmental hazards:	Not applicable.	
14.6 Special precautions for user	Not applicable.	
14.7 Maritime transport in bulk according	g to IMO	
instruments	Not applicable.	
UN "Model Regulation":	Void	

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# **SECTION 15: Regulatory information**

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

· Directive 2012/18/EU

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

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

• Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

### · Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

7647-01-0 hydrogen chloride

• Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

7647-01-0 hydrogen chloride

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

### **SECTION 16: Other information**

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

· Department issuing SDS: Product safety department.

· Contact: MSDS\_Turku@revvity.com

• Date of previous version: 03.11.2023

· Version number of previous version: 1

· 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

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent. Bioaccumulative and Toxic

*vPvB: very Persistent and very Bioaccumulative* 

\* Data compared to the previous version altered.

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