16.02.2024	Kit components
Product code	Description
3040-0010	NeoBase Non-derivatized MSMS kit 3040-0010, 3040-001U
Components:	
13806244	Acylcarnitines Internal Standard
13807654	Amino Acids Internal Standards (NeoBase)
13806181	NeoBase Controls Low, High



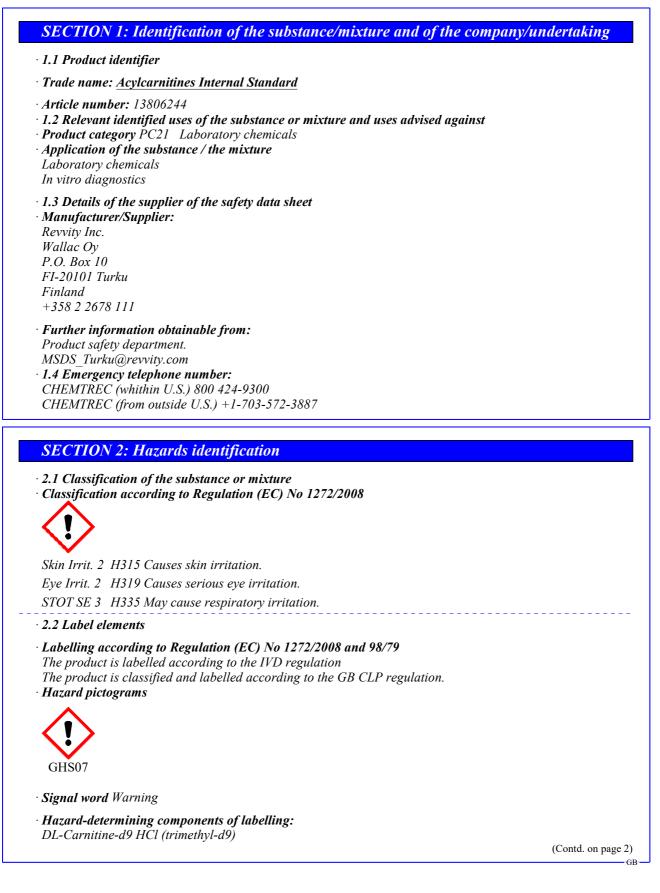
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Safety data sheet according to 1907/2006/EC, Article 31

Printing date 16.02.2024

Version number 5

Revision: 12.02.2024



Printing date 16.02.2024

Version number 5

Revision: 12.02.2024

Trade name: Acylcarnitines Internal Standard

	(Contd. of page 1)
Hazard stateme	ents
H315 Causes sk	kin irritation.
H319 Causes se	erious eye irritation.
H335 May caus	re respiratory irritation.
Precautionary s	statements
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear eye protection / face protection.
P304+P340	
P305+P351+P	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
Additional info	rmation:
45.2 % of the m	ixture consists of component(s) of unknown toxicity.
	6 of components with unknown hazards to the aquatic environment.
2.3 Other hazar	rds
Results of PBT	and vPvB assessment
PBT: Not appli	

• **vPvB:** Not applicable.

×

SECTION 3: Composition/information on ingredients

• 3.2 Chemical characterisation: Mixtures

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

1219386-75-0	DL-Carnitine-d9 HCl (trimethyl-d9)	25-50%
	♦ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
2245711-27-5	Octadecanoyl-L-carnitine-d3 HCl (N-methyl-d3)	≥5-<10%
	♦ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
1334532-26-1	Hexadecanoyl-L-carnitine-d3 HCl (N-methyl-d3)	≥5-<10%
	(<i>↓ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335</i>	
1334532-25-0	Tetradecanoyl-L-carnitine-d3 HCl (N-methyl-d3)	≥5-<10%
	(1) Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
2687960-76-3	Dodecanoyl-L-carnitine-d3 HCl (N-methyl-d3)	≥5-<10%
	(1) Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
1334532-17-0	Acetyl-L-carnitine-d3 HCl (N-methyl-d3)	≥5-<10%
	(1) Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
1334532-19-2	Propionyl-L-carnitine-d3 HCl (N-methyl-d3)	2.5-5%
	(1) Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
2483831-87-2	Decanoyl-L-carnitine-d3 HCl (N-methyl-d3)	2.5-5%
	(1) Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
1334532-24-9	Octanoyl-L-carnitine-d3 HCl (N-methyl-d3)	2.5-5%
	() Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
2483831-95-2	Hexanoyl-L-carnitine-d3 HCl (N-methyl-d3)	2.5-5%
	(1) Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
	Isovaleryl-DL-carnitine-d9 HCl (N,N,N-trimethyl-d9)	2.5-5%
	𝚯 Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
1334532-21-6	Butyryl-L-carnitine-d3 HCl (N-methyl-d3)	2.5-5%
	♦ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
Other ingredi	ents	
D6-DL-C5DC	1	2.5-5%

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• 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: 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 eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- · 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: No special measures required.
- 6.3 Methods and material for containment and cleaning up: Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.
- · 6.4 Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- · 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: Keep container tightly sealed.
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · 8.1 Control parameters
- 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.

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Trade name: Acylcarnitines Internal Standard

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

- · 8.2 Exposure controls
- · 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. 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:



Tightly sealed goggles

SECTION 9: Physical and chemical properties

• 9.1 Information on basic physical and cl	hemical properties	
· General Information		
· Appearance:		
Form:	Solid	
Colour:	According to product specification	
· Odour:	Characteristic	
• Odour threshold:	Not determined.	
· pH-value:	Not applicable.	
· Change in condition		
Melting point/freezing point:	Undetermined.	
Initial boiling point and boiling range:	Undetermined.	
· Flash point:	Not applicable.	
· Flammability (solid, gas):	Not determined.	
• Decomposition temperature:	Not determined.	
· Ignition temperature:	Product is not selfigniting.	
		(Contd. on page 5)

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Trade name: Acylcarnitines Internal Standard

	(Contd. of page 4)
Explosive properties:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure:	Not applicable.
Density:	Not determined.
Relative density	Not determined.
Vapour density	Not applicable.
Evaporation rate	Not applicable.
Solubility in / Miscibility with	
water:	Soluble.
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
Solvent content:	
Solids content:	94.4 %
9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

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

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- Acute toxicity Based on available data, the classification criteria are not met.
- Primary irritant effect:
- · Skin corrosion/irritation
- Causes skin irritation.
- · Serious eye damage/irritation
- Causes serious eye irritation.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Additional toxicological information:
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- *Reproductive toxicity Based on available data, the classification criteria are not met.*
- · STOT-single exposure
- 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.

(Contd. on page 6)

GR

Printing date 16.02.2024

Version number 5

Revision: 12.02.2024

Trade name: Acylcarnitines Internal Standard

(Contd. of page 5)

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
- · 12.5 Results of PBT and vPvB assessment
- *PBT:* Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

• 13.1 Waste treatment methods

· Recommendation

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

- · Uncleaned packaging:
- · Recommendation: Hand over to hazardous waste disposers.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport informa	tion	
· 14.1 UN-Number · ADR, ADN, IMDG, IATA	Void	
· 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA	Void	
14.3 Transport hazard class(es)		
ADR, ADN, IMDG, IATA Class	Void	
· 14.4 Packing group · ADR, IMDG, IATA	Void	
14.5 Environmental hazards: Marine pollutant:	Not applicable	
14.6 Special precautions for user	Not applicable.	
14.7 Transport in bulk according to Ann Marpol and the IBC Code	ex II of Not applicable.	
UN "Model Regulation":	Void	

SECTION 15: Regulatory information

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

· Directive 2012/18/EU

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

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

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Trade name: Acylcarnitines Internal Standard

(Contd. of page 6)

SE	CTION 16: Other information
	s information is based on our present knowledge. However, this shall not constitute a guarantee for cific product features and shall not establish a legally valid contractual relationship.
Rel	evant phrases
H3 .	15 Causes skin irritation.
H3	19 Causes serious eye irritation.
	35 May cause respiratory irritation.
Det	partment issuing SDS: Product safety department.
-	ntact: MSDS Turku@revvity.com
	breviations and acronyms:
	R: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concernin
	rnational Carriage of Dangerous Goods by Road)
IMD	OG: International Maritime Code for Dangerous Goods
	A: International Air Transport Association
	5: Globally Harmonised System of Classification and Labelling of Chemicals
	ECS: European Inventory of Existing Commercial Chemical Substances
	NCS: European List of Notified Chemical Substances : Chemical Abstracts Service (division of the American Chemical Society)
	: Persistent, Bioaccumulative and Toxic
	B: very Persistent and very Bioaccumulative
	Irrit. 2: Skin corrosion/irritation – Category 2
	Irrit. 2: Serious eye damage/eye irritation – Category 2
	T SE 3: Specific target organ toxicity (single exposure) – Category 3
	ata compared to the previous version altered.



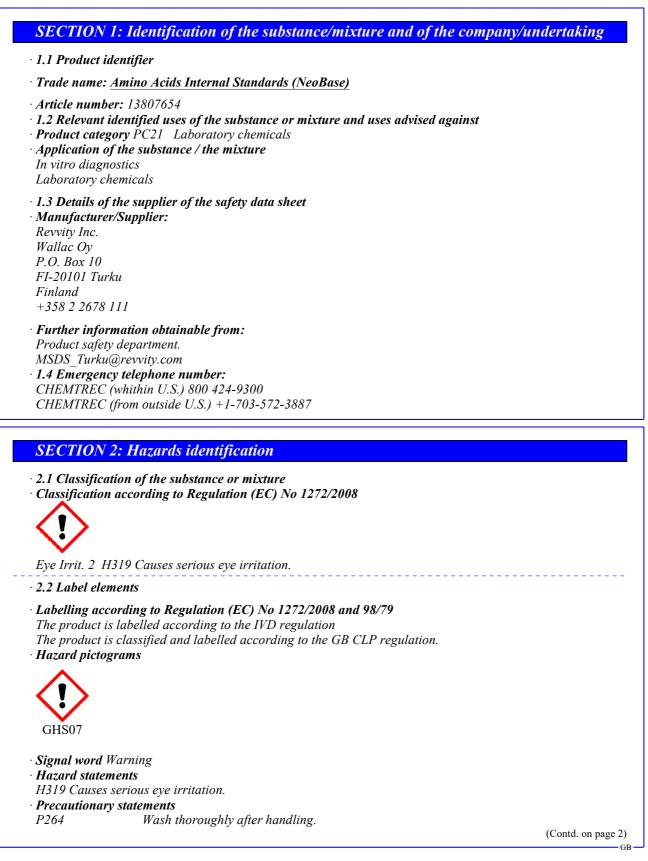
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Printing date 16.02.2024

Version number 3

Revision: 12.02.2024

Trade name: Amino Acids Internal Standards (NeoBase)

<i>P337+P313</i> • 2.3 Other haza	Wear eye protection / face protection. 338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. rds and vPvB assessment cable.	ntd. of page
SECTION 3	: Composition/information on ingredients	
	haracterisation: Mixtures ixture of substances listed below with nonhazardous additions.	
· Dangerous con	U U	
CAS: 347841-4 EC number: 69	0-1 L-Ornithine-3,3,4,4,5,5-d6 hydrochloride 5-521-9 (S)-(+)-2,5-Diaminopentanoic acid-3,3,4,4,5,5-d6 hydrochloride (S)-2,5-Diaminopentanoic acid-3,3,4,4,5,5-d6 monohydrochloride L-Ornithine-3,3,4,4,5,5-d6 monohydrochloride	≥5-<10%
	 Eye Irrit. 2, H319 3-(5-methyl[methyl-13C]-1H-pyratsol[3,4,5-13C3]-3-yl)propionic[3-13C] acid Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 	≥5-<10%
• Other ingredie	nts	
91795-59-4	Glycine-2-13C,15N	15-25%
201595-63-3	L-Tyrosine-(phenyl-13C6)	5-10%
1786448-45-0	L-Arginine-13C,d4 Dihydrochloride L-Arginine-5-13C,4,4,5,5-d4	5-10%
1021439-17-7	L-Citrulline-5,5-d2 (S)-2-Amino-5-ureidopentanoic-5,5-d2 acid L-2-Amino-5-ureidovaleric-5,5-d2 acid	5-10%
180268-82-0	L-Phenyl-13C6-alanine	5-10%
13070-53-2	L-Methionine-methyl-d3	5-10%
87828-86-2	L-Leucine-5,5,5-d3	5-10%
35045-72-8	L-Valine-d8	5-10%
201740-83-2	L-Proline-13C5	5-10%
18806-29-6	L-Alanine-2,3,3,3-d4	2.5-5%
Additional inf	rmation: For the wording of the listed hazard phrases 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

· 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.

• 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.

(Contd. on page 3)

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Trade name: Amino Acids Internal Standards (NeoBase)

(Contd. of page 2)

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: No special measures required.
- · 6.3 Methods and material for containment and cleaning up: Pick up mechanically.
- · 6.4 Reference to other sections
- No dangerous substances are released.
- 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 precautions are necessary if used correctly. • 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: Keep container tightly sealed.
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · 8.1 Control parameters
- 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.
- · 8.2 Exposure controls
- · 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.

(Contd. on page 4)

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Trade name: Amino Acids Internal Standards (NeoBase)

(Contd. of page 3) 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:



Tightly sealed goggles

SECTION 9: Physical and chemical properties

General Information		
Appearance:	~ 1 .	
Form:	Solution	
Colour:	White	
Odour:	Characteristic	
Odour threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition		
Melting point/freezing point:	Undetermined.	
Initial boiling point and boiling range	2: 100 °C	
Flash point:	Not applicable.	
Flammability (solid, gas):	Not determined.	
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 applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with		
water:	Soluble.	
Partition coefficient: n-octanol/water:	Not determined.	
Viscosity:		
Dynamic:	Not applicable.	
		(Contd. on page

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Trade name: Amino Acids Internal Standards (NeoBase)

		(Contd. of page 4)
Kinematic:	Not applicable.	
· Solvent content:		
Solids content:	0.2 %	
• 9.2 Other information	No further relevant information available.	

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

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

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

- Acute toxicity Based on available data, the classification criteria are not met.
- · Primary irritant effect:
- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation
- Causes serious eye irritation.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Additional toxicological information:

· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- *Reproductive toxicity Based on available data, the classification criteria are not met.*
- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

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

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

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

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(Contd. of page 5)

Trade name: Amino Acids Internal Standards (NeoBase)

· Uncleaned packaging:

• Recommendation: Hand over to hazardous waste disposers.

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

SECTION 14: Transport informa	tion	
14.1 UN-Number ADR, ADN, IMDG, IATA	Void	
14.2 UN proper shipping name ADR, ADN, IMDG, IATA	Void	
14.3 Transport hazard class(es)		
ADR, ADN, IMDG, IATA Class	Void	
14.4 Packing group ADR, IMDG, IATA	Void	
14.5 Environmental hazards: Marine pollutant:	Not applicable	
14.6 Special precautions for user	Not applicable.	
14.7 Transport in bulk according to Ann Marpol and the IBC Code	nex II of Not applicable.	
UN "Model Regulation":	Void	

SECTION 15: Regulatory information

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

· Directive 2012/18/EU

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

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

SECTION 16: Other information

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

· Relevant phrases

H315 Causes skin irritation.H319 Causes serious eye irritation.H335 May cause respiratory irritation.

· Department issuing SDS: Product safety department.

· Contact: MSDS Turku@revvity.com

• 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

Skin Irrit. 2: Skin corrosion/irritation – Category 2

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

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GB

Printing date 16.02.2024

Version number 3

Revision: 12.02.2024

Trade name: Amino Acids Internal Standards (NeoBase)

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 · * **Data compared to the previous version altered.**

(Contd. of page 6)

GB -



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Safety data sheet according to 1907/2006/EC, Article 31

Printing date 16.02.2024

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Trade name: <u>NeoBas</u>	e Controls Low, High
	<i>d uses of the substance or mixture and uses advised against</i>
1.3 Details of the supp Manufacturer/Suppli Revvity Inc. Wallac Oy P.O. Box 10 FI-20101 Turku Finland +358 2 2678 111	plier of the safety data sheet er:
Further information of Product safety departs MSDS_Turku@revvity 1.4 Emergency teleph CHEMTREC (whithin CHEMTREC (from ou	nent. 2.com one number:
SECTION 2: Haz	ards identification
Classification accordi	he substance or mixture ing to Regulation (EC) No 1272/2008 ssified, according to the GB CLP regulation.
2 2 T - 1 - 1 - 1	
2.2 Label elements	
Labelling according t	id
Labelling according t The product is labelled Hazard pictograms Vo Signal word Void Hazard statements Vo 2.3 Other hazards Results of PBT and v PBT: Not applicable. vPvB: Not applicable.	d according to the IVD regulation bid id
Labelling according t The product is labelled Hazard pictograms Vo Signal word Void Hazard statements Vo 2.3 Other hazards Results of PBT and v PBT: Not applicable. vPvB: Not applicable. SECTION 3: Con 3.2 Chemical charact	d according to the IVD regulation bid PvB assessment position/information on ingredients

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• Other ingredients		
CAS: 60-18-4 EINECS: 200-460-4	tyrosine	<0.1%
CAS: 56-40-6 EINECS: 200-272-2	glycine	<0.1%
CAS: 56-41-7 EINECS: 200-273-8	L-alanine	<0.1%
CAS: 63-91-2 EINECS: 200-568-1	3-phenyl-L-alanine	<0.1%
Additional informat	on. For the wording of the listed hazard 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.
- \cdot 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: No special measures required.
- · 6.3 Methods and material for containment and cleaning up: Pick up mechanically.
- · 6.4 Reference to other sections
- No dangerous substances are released.

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.

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· 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
- 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.
- · 8.2 Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:
- The usual precautionary measures are to be adhered to when handling chemicals.
- · Respiratory protection: 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.

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: Not required.

SECTION 9: Physical and chemical properties

· 9	.1 Information	on basic	physical and	chemical	nronerties
	•1 Injointation	Un Dusic	physical ana	cnemecui	properties

• General Information

· Appearance:	
Form:	Solution
Colour:	White
· Odour:	Characteristic
• Odour threshold:	Not determined.
· pH-value:	Not applicable.
· Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	100 °C
· Flash point:	Not applicable.
· Flammability (solid, gas):	Not determined.
• Decomposition temperature:	Not determined.
· Ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product does not present an explosion hazard.
• Explosion limits:	
Lower:	Not determined.
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Upper:	Not determined.
· Vapour pressure at 20 °C:	23 hPa
Density:	Not determined.
Relative density	Not determined.
Vapour density	Not applicable.
Evaporation rate	Not applicable.
Solubility in / Miscibility with	
water:	Not miscible or difficult to mix.
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
Solvent content:	
Solids content:	0.2 %
9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

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

SECTION 11: Toxicological information

• 11.1 Information on toxicological effects

- · Acute toxicity Based on available data, the classification criteria are not met.
- Primary irritant effect:
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Additional toxicological information:

· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

· Germ cell mutagenicity Based on available data, the classification criteria are not met.

- · Carcinogenicity Based on available data, the classification criteria are not met.
- *Reproductive toxicity Based on available data, the classification criteria are not met.*
- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.

· Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.

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- Additional ecological information:
- General notes: Not hazardous for water.
- 12.5 Results of PBT and vPvB assessment
- *PBT*: Not applicable.
- **vPvB:** Not applicable.
- 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

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

· Uncleaned packaging:

· Recommendation: Hand over to hazardous waste disposers.

SECTION 14: Transport information	n
· 14.1 UN-Number · ADR, ADN, IMDG, IATA	Void
• 14.2 UN proper shipping name • ADR, ADN, IMDG, IATA	Void
• 14.3 Transport hazard class(es)	
· ADR, ADN, IMDG, IATA · Class	Void
· 14.4 Packing group · ADR, IMDG, IATA	Void
 14.5 Environmental hazards: Marine pollutant: 	Not applicable
· 14.6 Special precautions for user	Not applicable.
· 14.7 Transport in bulk according to Annex Marpol and the IBC Code	II of Not applicable.
· UN "Model Regulation":	Void

SECTION 15: Regulatory information

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

· Directive 2012/18/EU

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

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

SECTION 16: Other information

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

- · Department issuing SDS: Product safety department.
- · Contact: MSDS_Turku@revvity.com
- 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

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GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances	(Contd. of page 5)
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.	