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





Printing date 16.02.2024 Version number 5 Revision: 12.02.2024

1 Identification

- · Product identifier
- · Trade name: Acylcarnitines Internal Standard
- · Article number: 13806244
- · 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 In vitro diagnostics

- 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

· Emergency telephone number:

CHEMTREC (whithin U.S.) 800 424-9300

CHEMTREC (from outside U.S.) +1-703-572-3887

· Information on domestic manufacturers

Sponsor in Australia: Revvity Pty. Ltd. Building C Tenancy A, Level 2 211 Wellington Road Mulgrave VIC 3170

1800 033 391

2 Hazard(s) Identification

· Classification of the substance or mixture



Skin Irrit. 2

H315 Causes skin irritation.

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

STOT SE 3 H335 May cause respiratory irritation.

- · Label elements
- · GHS label elements

The product is labelled according to the IVD regulation

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

(Contd. on page 2)

(Contd. of page 1)

Safety Data Sheet according to WHS Regulations

Printing date 16.02.2024 Version number 5 Revision: 12.02.2024

Trade name: Acylcarnitines Internal Standard

· Hazard pictograms



- · Signal word Warning
- · Hazard statements

Causes skin irritation.

Causes serious eye irritation.

May cause respiratory irritation.

· Precautionary statements

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wear eye protection / face protection.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

· Dangerous co	mponents:	
1219386-75-0	DL-Carnitine-d9 HCl (trimethyl-d9)	25-50%
	Skin Irrit. 2, H315; Serious eye damage/irritation — Category 2A, H319; STOT SE 3, H335	
2245711-27-5	Octadecanoyl-L-carnitine-d3 HCl (N-methyl-d3)	≥5-<10%
	Skin Irrit. 2, H315; Serious eye damage/irritation — Category 2A, H319; STOT SE 3, H335	
1334532-26-1	Hexadecanoyl-L-carnitine-d3 HCl (N-methyl-d3)	≥5-<10%
	Skin Irrit. 2, H315; Serious eye damage/irritation — Category 2A, H319; STOT SE 3, H335	
1334532-25-0	Tetradecanoyl-L-carnitine-d3 HCl (N-methyl-d3)	≥5-<10%
	Skin Irrit. 2, H315; Serious eye damage/irritation — Category 2A, H319; STOT SE 3, H335	
2687960-76-3	Dodecanoyl-L-carnitine-d3 HCl (N-methyl-d3)	≥5-<10%
	Skin Irrit. 2, H315; Serious eye damage/irritation — Category 2A, H319; STOT SE 3, H335	
1334532-17-0	Acetyl-L-carnitine-d3 HCl (N-methyl-d3)	≥5-<10%
	Skin Irrit. 2, H315; Serious eye damage/irritation — Category 2A, H319; STOT SE 3, H335	
1334532-19-2	Propionyl-L-carnitine-d3 HCl (N-methyl-d3)	2.5-5%
	Skin Irrit. 2, H315; Serious eye damage/irritation — Category 2A, H319; STOT SE 3, H335	
2483831-87-2	Decanoyl-L-carnitine-d3 HCl (N-methyl-d3)	2.5-5%
	Skin Irrit. 2, H315; Serious eye damage/irritation — Category 2A, H319; STOT SE 3, H335	

(Contd. on page 3)

Printing date 16.02.2024 Version number 5 Revision: 12.02.2024

Trade name: Acylcarnitines Internal Standard

		ntd. of page 2
1334532-24-9	Octanoyl-L-carnitine-d3 HCl (N-methyl-d3)	2.5-5%
	Skin Irrit. 2, H315; Serious eye damage/irritation – Category 2A, H319; STOT SE 3, H335	
2483831-95-2	Hexanoyl-L-carnitine-d3 HCl (N-methyl-d3)	2.5-5%
	Skin Irrit. 2, H315; Serious eye damage/irritation — Category 2A, H319; STOT SE 3, H335	
	Isovaleryl-DL-carnitine-d9 HCl (N,N,N-trimethyl-d9)	2.5-5%
	♦ Skin Irrit. 2, H315; Serious eye damage/irritation – Category 2A, H319; STOT SE 3, H335	
1334532-21-6	Butyryl-L-carnitine-d3 HCl (N-methyl-d3)	2.5-5%
	Skin Irrit. 2, H315; Serious eye damage/irritation — Category 2A, H319; STOT SE 3, H335	
· Other ingredie	ents	
D6-DL-C5DC		2.5-5%

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 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: 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.

(Contd. on page 4)

Printing date 16.02.2024 Version number 5 Revision: 12.02.2024

Trade name: Acylcarnitines Internal Standard

(Contd. of page 3)

- · 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 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.

· Eve protection:



Tightly sealed goggles

9 Physical and Chemical Properties

· General Information

· Appearance:

· Form: Solid

• Colour: According to product specification

Odour: Characteristic
Odour threshold: Not determined.
pH-value: Not applicable.

(Contd. on page 5)

Printing date 16.02.2024 Version number 5 Revision: 12.02.2024

Trade name: Acylcarnitines Internal Standard

(Contd. of page 4)

· Change in condition

Melting point/freezing point:
 Initial boiling point and boiling range:
 Flash point:
 Flammability (solid, gas):
 Decomposition temperature:
 Undetermined.
 Not applicable.
 Not determined.
 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: 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 %

• 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 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.
- · 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.

(Contd. on page 6)

Printing date 16.02.2024 Version number 5 Revision: 12.02.2024

Trade name: Acylcarnitines Internal Standard

(Contd. of page 5)

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

UN-Number ADG, ADN, IMDG, IATA	Void	
	, ou	
UN proper shipping name ADG, ADN, IMDG, IATA	Void	
Transport hazard class(es)		
ADG, ADN, IMDG, IATA		
Class	Void	
Packing group		
ADG, IMDG, IATA	Void	
Environmental hazards:		
Marine pollutant:	Not applicable	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex I	I of Marpol	
and the IBC Code	Not applicable.	
UN "Model Regulation":	Void	

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Australian Inventory of Industrial Chemicals

None of the ingredients is 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).

(Contd. on page 7)

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Safety Data Sheet according to WHS Regulations

Printing date 16.02.2024 Version number 5 Revision: 12.02.2024

Trade name: Acylcarnitines Internal Standard

· Hazard pictograms



· Signal word Warning

· Hazard statements

Causes skin irritation.

Causes serious eye irritation.

May cause respiratory irritation.

· Precautionary statements

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wear eye protection / face protection.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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 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.

· 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

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

Serious eye damage/irritation – Category 2A: Serious eye damage/eye irritation – Category 2A

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

AU





Printing date 16.02.2024 Version number 3 Revision: 12.02.2024

1 Identification

- · Product identifier
- · Trade name: Amino Acids Internal Standards (NeoBase)
- · Article number: 13807654
- · Relevant identified uses of the substance or mixture and uses advised against
- · Product category PC21 Laboratory chemicals
- · Application of the substance / the mixture

In vitro diagnostics Laboratory chemicals

- 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

· Emergency telephone number:

CHEMTREC (whithin U.S.) 800 424-9300

CHEMTREC (from outside U.S.) +1-703-572-3887

· Information on domestic manufacturers

Sponsor in Australia: Revvity Pty. Ltd. Building C Tenancy A, Level 2 211 Wellington Road Mulgrave VIC 3170

1800 033 391

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 labelled according to the IVD regulation

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

· Hazard pictograms



Revision: 12.02.2024 Printing date 16.02.2024 Version number 3

Trade name: Amino Acids Internal Standards (NeoBase)

(Contd. of page 1)

- · 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.

3 Composition and Information on Ingredients

- · Chemical characterisation: Mixtures
- · **Description:** Mixture of substances listed below with nonhazardous additions.

347841-40-1	L-Ornithine-3,3,4,4,5,5-d6 hydrochloride	≥5-<10%
((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	
-	🗘 Serious eye damage/irritation — Category 2A, H319	-
-	3-(5-methyl[methyl-13C]-1H-pyratsol[3,4,5-13C3]-3-yl)propionic[3-13C] acid	≥5-<10%
	Skin Irrit. 2, H315; Serious eye damage/irritation – Category 2A, H319; STOT SE 3, H335	
Other ingredie	ents	
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%
18806-20-6	L-Alanine-2,3,3,3-d4	2.5-5%

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

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.

(Contd. on page 3)

Printing date 16.02.2024 Version number 3 Revision: 12.02.2024

Trade name: Amino Acids Internal Standards (NeoBase)

(Contd. of page 2)

· 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: No special measures required.
- · Methods and material for containment and cleaning up: Pick up mechanically.
- · 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.

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.

(Contd. on page 4)

Printing date 16.02.2024 Version number 3 Revision: 12.02.2024

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

9 Physical and Chemical Properties

· General Information

· Appearance:

· Form: Solution White · Colour:

· 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. Not determined. · Flammability (solid, gas):

· Decomposition temperature: Not determined.

Product is not selfigniting. Ignition temperature:

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

· Explosion limits:

· Lower: Not determined. Not determined. · Upper: 23 hPa · Vapour pressure at 20 °C:

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

· Solubility in / Miscibility with

Soluble.

· Partition coefficient: n-octanol/water: Not determined.

· Viscosity:

· Dynamic: Not applicable. · Kinematic: Not applicable.

· Solvent content:

0.2 % · Solids content:

No further relevant information available. · Other information

Printing date 16.02.2024 Version number 3 Revision: 12.02.2024

Trade name: Amino Acids Internal Standards (NeoBase)

(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.
- · 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: 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: Hand over to hazardous waste disposers.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

14 Transport information

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

Void

(Contd. on page 6)

Printing date 16.02.2024 Version number 3 Revision: 12.02.2024

Trade name: Amino Acids Internal Standards (NeoBase)

	(Con	td. of page 5)
· UN proper shipping name · ADG, ADN, IMDG, IATA	Void	
· Transport hazard class(es)		
· ADG, ADN, IMDG, IATA · Class	Void	
· Packing group · ADG, IMDG, IATA	Void	
· Environmental hazards: · Marine pollutant:	Not applicable	
· Special precautions for user	Not applicable.	
Transport in bulk according to Annex L and the IBC Code	I of Marpol Not applicable.	
· UN "Model Regulation":	Void	

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Australian Inventory of Industrial Chemicals

None of the ingredients is 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 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.

- · 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.

(Contd. on page 7)

Printing date 16.02.2024 Version number 3 Revision: 12.02.2024

Trade name: Amino Acids Internal Standards (NeoBase)

(Contd. of page 6)

· 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

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

Serious eye damage/irritation – Category 2A: Serious eye damage/eye irritation – Category 2A

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3





Printing date 16.02.2024 Version number 3 Revision: 12.02.2024

1 Identification

- · Product identifier
- · Trade name: NeoBase Controls Low, High
- · Article number: 13806181
- · Relevant identified uses of the substance or mixture and uses advised against
- · Product category PC21 Laboratory chemicals
- · Application of the substance / the mixture

In vitro diagnostics Laboratory chemicals

- 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

· Emergency telephone number:

CHEMTREC (whithin U.S.) 800 424-9300

CHEMTREC (from outside U.S.) +1-703-572-3887

· Information on domestic manufacturers

Sponsor in Australia: Revvity Pty. Ltd. Building C Tenancy A, Level 2 211 Wellington Road Mulgrave VIC 3170

1800 033 391

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 The product is labelled according to the IVD regulation
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

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3 Composition and Information on Ingredients

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

Other in	· Other ingredients		
60-18-4	·	<0.1%	
56-40-6	glycine	<0.1%	
56-41-7	L-alanine	<0.1%	
63-91-2	3-phenyl-L-alanine	<0.1%	

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

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.
- · 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: No special measures required.
- · Methods and material for containment and cleaning up: Pick up mechanically.
- · 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.

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.

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· 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.

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.

9 Physical and Chemical 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.
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.

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· Partition coefficient: n-octanol/water: Not determined.

· Viscosity:

Dynamic: Not applicable.Kinematic: Not applicable.

· Solvent content:

· Solids content: 0.2 %

· 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.
- $\cdot \textit{Reproductive toxicity } \textit{Based on available data, the classification criteria are not met.}$
- · 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.

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· Uncleaned packaging:

· Recommendation: Hand over to hazardous waste disposers.

UN-Number		
ADG, ADN, IMDG, IATA	Void	
UN proper shipping name		
ADG, ADN, IMDG, IATA	Void	
Transport hazard class(es)		
ADG, ADN, IMDG, IATA		
Class	Void	
Packing group		
ADG, IMDG, IATA	Void	
Environmental hazards:		
Marine pollutant:	Not applicable	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex 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	· Australian Inventory of Industrial Chemicals	
60-18-4	tyrosine	
56-40-6	glycine	
56-41-7	L-alanine	
63-91-2	3-phenyl-L-alanine	
72-18-4	valine	
147-85-3	L-proline	
372-75-8	citrulline	
63-68-3	L-methionine	
461-05-2	DL-carnitine hydrochloride	
61-90-5	L-leucine	
5080-50-2	1-propanaminium, 2-(acetyloxy)-3-carboxy-N,N,N-trimethyl-, chloride (1:1), (2R)-	

· 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.

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Trade name: NeoBase Controls Low, High

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· 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: Product safety department.
- · Contact: MSDS_Turku@revvity.com
- · Abbreviations and acronyms:

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