

CycLex NAMPT Colorimetric Assay Kit Ver.2

Issue date: 20/Sep/2023

Safety Data Sheet

Section 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

Product name: CycLex NAMPT Colorimetric Assay Kit Ver.2

SDS NO: CY_1251V2_1001_E-1

Component: NAMPT Assay Buffer (20X)

Product code:CY-1251V2

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the product: Research and Development

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Medical & Biological Laboratories (MBL) Co., Ltd. Address: 1018-1 Terasawaoka, Ina-shi, Nagano-ken 396-0002, Japan

Telephone number: +81-265-76-1777 e-mail address: sds-support@mbl.co.jp

1.4 Emergency telephone number: +81-265-76-1777 (Monday to Friday, 9 AM to 5 PM JST)

Section 2. Hazards identification

GHS classification and label elements of the product

2.1 Classification of the substance or mixture

Classification according to Hazard Communication Standard - 2012 (29 CFR 1910.1200)

HEALTH HAZARDS

Skin corrosion/irritation: Category 2

Serious eye damage/eye irritation: Category 2

Respiratory sensitization: Category 1

Specific target organ toxicity – single exposure: Category 2 Specific target organ toxicity – repeated exposure: Category 2

2.2 Label elements

Labelling according to Hazard Communication Standard - 2012 (29 CFR 1910.1200)



Signal word: Danger HAZARD STATEMENT

H315-Causes skin irritation

H319-Causes serious eye irritation

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

H371-May cause damage to organs

H373-May cause damage to organs through prolonged or repeated exposure

PRECAUTIONARY STATEMENT

Prevention

P260-Do not breathe dust/fume/gas/mist/vapors/spray.

P261-Avoid breathing dust/fume/gas/mist/vapors/spray.

P284-In case of inadequate ventilation wear respiratory protection.

P264-Wash contaminated parts thoroughly after handling.

P280-Wear protective gloves.

P280-Wear eye protection/face protection.

P270-Do not eat, drink or smoke when using this product.

Response

P314-Get medical advice/attention if you feel unwell.

P308 + P311-IF exposed or concerned: Call a POISON CENTER/doctor/physician.

P342 + P311-If experiencing respiratory symptoms: Call a POISON CENTER/doctor/physician.

P304 + P340-IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P302 + P352-IF ON SKIN: Wash with plenty of soap and water.

P332 + P313-If skin irritation occurs: Get medical advice/attention.

P362 + P364-Take off contaminated clothing and wash it before reuse.

P305 + P351 + P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313-If eye irritation persists: Get medical advice/attention.

Disposal

P501-Dispose of contents/container in accordance with local/national regulation.

2.3 Other hazards

The product does not contain any ingredient designated as PBT and/or vPvB.

The product does not contain any ingredients designated as Endocrine disrupting properties.

Section 3. Composition/information on ingredients

Mixture/Substance selection:

3.2 Mixture

Ingredient name	Content (%)	CAS No.	ECNO	Classification according to REGULATION (EC) No.1272/2008 [CLP]
1,3-Propanediol, 2-amino-2-(hydroxymethyl)-	12.10	77-86-1	201-064-4	-
Hydrochloric acid	2.20	7647-01-0	231–595–7	STOT SE 3, H335; Skin Corr. 1B, H314 [SCL's, M-Factors, ATE, Component notes] Skin Corr. 1B; H314: $C \ge 25$ %; Skin Irrit. 2; H315: 10 % =< $C < 25$ %; Eye Irrit. 2; H319: 10 % =< $C < 25$ %; STOT SE 3; H335: $C \ge 10$ %; note: [B]
Sodium chloride	29.22	7647-14-5	231-598-3	_
Magnesium chloride	9.52	7786-30-3	232-094-6	_
Water	46.96	7732-18-5	231-791-2	_

Section 4. First-aid measures

4.1 Descriptions of first-aid measures

General measures

P314-Get medical advice/attention if you feel unwell.

P308 + P311-IF exposed or concerned: Call a POISON CENTER/doctor/physician.

IF INHALED

P304 + P340-Remove person to fresh air and keep comfortable for breathing.

P342 + P311-If experiencing respiratory symptoms: Call a POISON CENTER/doctor/physician.

P304 + P312-Call a POISON CENTER/doctor/physician if you feel unwell.

IF ON SKIN (or hair)

P302 + P352-Wash with plenty of soap and water.

P332 + P313-If skin irritation occurs: Get medical advice/attention.

IF IN EYES

P305 + P351 + P338-Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313-If eye irritation persists: Get medical advice/attention.

IF SWALLOWED

P301 + P312-Call a POISON CENTER/doctor/physician if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Specific information on symptom and effect are unknown.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use appropriate extinguishing media suitable for surrounding facilities.

Unsuitable extinguishing media

Unsuitable extinguishing media data is not available.

5.2 Specific hazards arising from the substance or mixture

Specific hazards arising from the substance or mixture is not available.

5.3 Advice for firefighters

Specific fire-fighting measures

Evacuate non-essential personnel to safe area.

Special protective equipment and precautions for fire-fighters

P280A-Wear protective gloves/protective clothing/eye protection/face protection.

Section 6. Accidental release measures

6.1 Personnel precautions, protective equipment and emergency procedures

Stop leak if safe to do so.

6.2 Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

6.3 Methods and materials for containment and cleaning up

Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.

Preventive measures for secondary accident

P376-Stop leak if safe to do so.

Stop leak if you can do it without risk.

Prevent entry into waterways, sewers, basements or confined areas.

6.4 Reference to other sections

Refer to section 13

Section 7. Handling and storage

7.1 Precautions for safe handling

Preventive measures

(Exposure Control for handling personnel)

P260-Do not breathe dust/fume/gas/mist/vapors/spray.

P261-Avoid breathing dust/fume/gas/mist/vapors/spray.

Safety Measures

 ${\tt P280A-Wear\ protective\ gloves/protective\ clothing/eye\ protection/face\ protection.}$

P280E-Wear protective gloves.

P280H-Wear eye protection/face protection.

Any incompatibilities data is not available.

Advice on general occupational hygiene

P264-Wash contaminated parts thoroughly after handling.

P270-Do not eat, drink or smoke when using this product.

P362 + P364-Take off contaminated clothing and wash it before reuse.

7.2 Storage

Conditions for safe storage

P233-Keep container tightly closed.

P235 + P410-Keep cool. Protect from sunlight.

Container and packaging materials for safe handling data is not available.

7.3 Specific end use(s)

For the relevant identified use(s)listed in Section 1 the advice mentioned in this section 7 is to be observed.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Adopted value

(Hydrochloric acid)

ACGIH(2002) STEL: C 2ppm (URT irr)

EU Occupational exposure limit values (Workplace Exposure limits) compliant to relevant EU Directive through 91/332/EEC to 2019/1831/EU

(Hydrochloric acid) LTEL: 8mg/m3; 5ppm STEL: 15mg/m3; 10ppm

OSHA-PEL

(Hydrochloric acid) STEL: C 5ppm, 7mg/m3

NIOSH-REL

(Hydrochloric acid) STEL: C 5ppm

8.2 Exposure controls

Appropriate engineering controls

Do not use in areas without adequate ventilation.

Individual protection measures

Respiratory protection

P284M-In case of inadequate ventilation wear respiratory protection.

Hand protection

Wear protective gloves.

Eye protection

Wear eye/face protection.

Skin and body protection

Wear protective clothing.

Section 9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical state: Liquid Color: Colorless

Odor data is not available.

Melting point/Freezing point data is not available.

Boiling point or initial boiling point data is not available.

Boiling range data is not available.

Flammability (gases, liquids and solids) data is not available.

Lower and upper explosion limit/flammability limit data is not available.

Flash point data is not available.

Auto-ignition temperature data is not available.

Decomposition temperature data is not available.

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pH: 7.8<sup>8</sup>.2
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Kinematic viscosity data is not available.

Solubility:

Solubility in water data is not available.

Solubility in solvent data is not available.

Solubility as solvent data is not available.

n-Octanol/water partition coefficient data is not available.

Vapor pressure data is not available.

Density and/or relative density data is not available.

Relative vapor density (Air=1) data is not available.

Particle characteristics data is not available.

9.2 Other information

Other information is not available.

Section 10. Stability and Reactivity

10.1 Reactivity

Reactivity data is not available.

10.2 Chemical stability

Stable under normal storage/handling conditions.

10.3 Possibility of hazardous reactions

Possibility of hazardous reactions data is not available.

10.4 Conditions to avoid

Conditions to avoid data is not available.

10.5 Incompatible materials

Incompatible materials data is not available.

10.6 Hazardous decomposition products

Irritating gases and/or vapors

Section 11. Toxicological Information

11.1 Information on toxicological effects

Acute toxicity

Acute toxicity (Oral)

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

Acute toxicity (Dermal)

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

Acute toxicity (Inhalation)

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

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Acute toxicity data is not available.
Irritant properties
  Skin corrosion/irritation
     [Product]
       Category 2, Causes skin irritation
     [Product data]
       No data available.
     [Data for components of the product]
       No data available.
  Serious eye damage/irritation
     [Product]
       Category 2, Causes serious eye irritation
     [Product data]
       No data available.
     [Data for components of the product]
       No data available.
Sensitization
  Respiratory sensitization
     [Product]
       Category 1, May cause allergy or asthma symptoms or breathing difficulties if inhaled
     [Product data]
       No data available.
     [Data for components of the product]
       No data available.
  Skin sensitization
     [Product]
       Classification not possible (Insufficient data available or no data available).
     [Product data]
       No data available.
     [Data for components of the product]
       No data available.
Germ cell mutagenicity
    [Product]
       Classification not possible (Insufficient data available or no data available).
     [Product data]
       No data available.
     [Data for components of the product]
       No data available.
Mutagenic effects data is not available.
Carcinogenicity
    [Product]
       Classification not possible (Insufficient data available or no data available).
     [Product data]
       No data available.
     [Data for components of the product]
       No data available.
       [IARC]
       (Hydrochloric acid)
       Group 3: Not classifiable as to its carcinogenicity to humans
       [ACGIH]
       (Hydrochloric acid)
       A4(2002): Not Classifiable as a Human Carcinogen
Reproductive toxicity
     [Product]
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(Hydrochloric acid)

Classification not possible (Insufficient data available or no data available). [Product data] No data available. [Data for components of the product] No data available. Teratogenic effects data is not available. Reproductive toxicity data is not available. Specific target organ toxicity (STOT) STOT-single exposure [Product] Category 2, May cause damage to organs [Product data] No data available. [Data for components of the product] No data available. STOT-repeated exposure [Product] Category 2, May cause damage to organs through prolonged or repeated exposure [Product data] No data available. [Data for components of the product] No data available. Aspiration hazard [Product] Classification not possible (Insufficient data available or no data available). [Product data] No data available. [Data for components of the product] No data available. Aspiration hazard data is not available. 11.2 Information on other hazards Endocrine disrupting properties is not available. Section 12. Ecological Information 12.1 Toxicity Aquatic toxicity Classification not possible (Insufficient data available or no data available). [Product data] No data available. [Data for components of the product] No data available. Toxicity data is not available. Water solubility (Hydrochloric acid) $67 \text{ g}/100 \text{ ml } (30^{\circ}\text{C}) \text{ (ICSC, 2000)}$ (Magnesium chloride) 54.3 g/100 ml (20°C) (ICSC, 2006) 12.2 Persistence and degradability Persistence and degradability data is not available. 12.3 Bioaccumulative potential [Data for components of the product]

log Pow=0.25 (ICSC, 2000)

12.4 Mobility in soil

Mobility in soil data is not available.

12.5 Results of PBT and vPvB assessment

PBT and/or vPvB assessment data is not available.

12.6 Endocrine disrupting properties

Endocrine disrupting properties is not available.

12.7 Other adverse effects

Ozone depleting chemical data is not available.

Section 13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging

13.1 Waste treatment methods

P273-Avoid release to the environment.

P501-Dispose of contents/container in accordance with local/national regulation.

Contaminated packing

Dispose of container after using the contents completely.

Section 14. Transport Information

UN No., UN CLASS

14.1 UN Number or ID Number: Not regulated

14.2 UN Proper Shipping Name: Not regulated

14.3 Class or division (Transport hazard class): Not regulated

14.4 Packing group: Not regulated

ADR (European Agreement concerning the International Carriage of Dangerous Goods by Road)

14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name: Not regulated

14.3 Class or division (Transport hazard class): Not regulated

14.4 Packing group: Not regulated

ADN (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)

14.1 UN Number or ID Number: Not regulated

14.2 UN Proper Shipping Name: Not regulated

14.3 Class or division (Transport hazard class): Not regulated

14.4 Packing group: Not regulated

RID (Regulation concerning the International Carriage of Dangerous goods by Rail)

14.1 UN Number or ID Number: Not regulated

14.2 UN Proper Shipping Name: Not regulated

14.3 Class or division (Transport hazard class): Not regulated

14.4 Packing group: Not regulated

IMDG Code (International Maritime Dangerous Goods Regulations)

14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name: Not regulated

14.3 Class or division (Transport hazard class): Not regulated

14.4 Packing group: Not regulated

IATA (Dangerous Goods Regulations)

14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name: Not regulated

14.3 Class or division (Transport hazard class): Not regulated

14.4 Packing group: Not regulated

14.5 Environmental hazards

Marine pollutants (yes/no): no

14.6 Special precautions for user

Special precautions for user is not applicable.

14.7 Maritime transport in bulk according to IMO instruments

MARPOL Annex II - Noxious Liquid Substances

Noxious Liquid Substances; Cat. Z Magnesium chloride; Hydrochloric acid Noxious Liquid Substances; Cat. Z equiv.

Sodium chloride

Non Noxious Liquid Substances; Cat. OS

Water

MARPOL Annex V - HME (Harmful to the Marine Environment)

Specific target organ toxicity - repeated exposure: cat.1

Hydrochloric acid

Hazardous to the aquatic environment - short-term (acute): cat.1

Hydrochloric acid

Section 15. Regulatory Information

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

U.S. Toxic Substances Control Act (TSCA) Inventory

Chemicals listed in TSCA Inventory

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-; Hydrochloric acid; Sodium chloride; Water; Magnesium chloride

Superfund Amendments and Reauthorizations Act (SARA), Title III

SARA 313 (TRI)

Hydrochloric acid

California proposition 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

15.2 Chemical safety assessment

No chemical safety assessment has been carried out for this product.

Section 16. Other information

GHS classification and labelling

H315-Skin corrosion/irritation, Category 2: H315 Causes skin irritation

H319-Serious eye damage/eye irritation, Category 2: H319 Causes serious eye irritation

H334-Respiratory sensitization, Category 1: H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

H371-STOT - single exposure, Category 2: H371 May cause damage to organs

H373-STOT - Repeated exposure, Category 2: H373 May cause damage to organs through prolonged or repeated exposure

Full text of Hazard categories and Hazard statements referred to only section 3

Skin Corr. 1B, H314 - Skin corrosion/irritation, Category 1B: H314 Causes severe skin burns and eye damage

STOT SE 3, H335 - STOT - single exposure, Category 3, Respiratory tract irritation: H335 May cause respiratory irritation.

References and sources for data

Globally Harmonized System of classification and labelling of chemicals, UN

Recommendations on the TRANSPORT OF DANGEROUS GOODS 22nd edit., 2021 UN

IMDG Code, 2020 Edition (Incorporating Amendment 40-20)

IATA Dangerous Goods Regulations (64th Edition) 2023

2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT)

2023 TLVs and BEIs. (ACGIH)

Supplier's data/information

Hazard Communication Standard - 2012 (29 CFR 1910.1200)

Chemicals safety data management system "GHS Assistant" Version 4.24

(https://www.asahi-ghs.com/)

Abbreviations and acronyms

C - Ceiling limit; irr - irritation; URT - upper respiratory tract

Revision information

First edition

General Disclaimer

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.



CycLex NAMPT Colorimetric Assay Kit Ver.2

Issue date: 20/Sep/2023

Safety Data Sheet

Section 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

Product name: CycLex NAMPT Colorimetric Assay Kit Ver.2

SDS NO:CY_1251V2_1002_E-1

Component: WST-1
Product code: CY-1251V2

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the product: Research and Development

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Medical & Biological Laboratories (MBL) Co., Ltd. Address: 1018-1 Terasawaoka, Ina-shi, Nagano-ken 396-0002, Japan

Telephone number: +81-265-76-1777 e-mail address: sds-support@mbl.co.jp

1.4 Emergency telephone number: +81-265-76-1777 (Monday to Friday, 9 AM to 5 PM JST)

Section 2. Hazards identification

GHS classification and label elements of the product

2.1 Classification of the substance or mixture

Classification according to Hazard Communication Standard - 2012 (29 CFR 1910.1200)

Not classified/Classification not possible

2.2 Label elements

Labelling according to Hazard Communication Standard - 2012 (29 CFR 1910.1200)

No GHS label element

No Signal word

2.3 Other hazards

The product does not contain any ingredient designated as PBT and/or vPvB.

The product does not contain any ingredients designated as Endocrine disrupting properties.

Section 3. Composition/information on ingredients

Mixture/Substance selection:

3.2 Mixture

Ingredient name	Content (%)	CAS No.	ECNO	Classification according to REGULATION (EC) No.1272/2008 [CLP]
WST-1	0.42	150849-52 -8	-	-
HEPES	0.47	7365-45-9	230-907-9	_
potassium hydroxide	0.04	1310–58–3	215-181-3	Acute Tox. 4 *, H302; Skin Corr. 1A, H314 [SCL's, M-Factors, ATE, Component notes] Skin Corr. 1A; H314: C >= 5 %; Skin Corr. 1B; H314: 2 % =< C < 5 %; Skin Irrit. 2; H315: 0,5 % =< C < 2 %; Eye Irrit. 2; H319: 0,5 % =< C < 2 %

Water	99.00<	7732-18-5 231-791-2	_

Section 4. First-aid measures

4.1 Descriptions of first-aid measures

General measures

P314-Get medical advice/attention if you feel unwell.

IF INHALED

P304 + P312-Call a POISON CENTER/doctor/physician if you feel unwell.

IF ON SKIN (or hair)

P302 + P352-Wash with plenty of soap and water.

IF IN EYES

P305 + P351 + P338-Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.

IF SWALLOWED

P301 + P312-Call a POISON CENTER/doctor/physician if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Specific information on symptom and effect are unknown.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use appropriate extinguishing media suitable for surrounding facilities.

Unsuitable extinguishing media

Unsuitable extinguishing media data is not available.

5.2 Specific hazards arising from the substance or mixture

Specific hazards arising from the substance or mixture is not available.

5.3 Advice for firefighters

Specific fire-fighting measures

Evacuate non-essential personnel to safe area.

Special protective equipment and precautions for fire-fighters

P280A-Wear protective gloves/protective clothing/eye protection/face protection.

Section 6. Accidental release measures

6.1 Personnel precautions, protective equipment and emergency procedures

Stop leak if safe to do so.

6.2 Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

6.3 Methods and materials for containment and cleaning up

Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.

Preventive measures for secondary accident

P376-Stop leak if safe to do so.

Stop leak if you can do it without risk.

Prevent entry into waterways, sewers, basements or confined areas.

6.4 Reference to other sections

Refer to section 13

7.1 Precautions for safe handling

Preventive measures

(Exposure Control for handling personnel)

P260-Do not breathe dust/fume/gas/mist/vapors/spray.

Safety Measures

P280A-Wear protective gloves/protective clothing/eye protection/face protection.

Any incompatibilities data is not available.

Advice on general occupational hygiene

P264-Wash contaminated parts thoroughly after handling.

P270-Do not eat, drink or smoke when using this product.

7.2 Storage

Conditions for safe storage

P233-Keep container tightly closed.

P235 + P410-Keep cool. Protect from sunlight.

Container and packaging materials for safe handling data is not available.

7.3 Specific end use(s)

For the relevant identified use(s)listed in Section 1 the advice mentioned in this section 7 is to be observed.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Adopted value

(potassium hydroxide)

ACGIH(1992) STEL: C 2mg/m3 (URT, eye & skin irr)

OSHA-PEL value is not available.

8.2 Exposure controls

Appropriate engineering controls

Do not use in areas without adequate ventilation.

Individual protection measures

Hand protection

Wear protective gloves.

Eye protection

Wear eye/face protection.

Skin and body protection

Wear protective clothing.

Section 9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical state: Liquid

Color: Colorless

Odor data is not available.

Melting point/Freezing point data is not available.

Boiling point or initial boiling point data is not available.

Boiling range data is not available.

Flammability (gases, liquids and solids) data is not available.

Lower and upper explosion limit/flammability limit data is not available.

Flash point data is not available.

Auto-ignition temperature data is not available.

Decomposition temperature data is not available.

pH: 7.3~7.8

Kinematic viscosity data is not available.

Solubility:

Solubility in water data is not available.

Solubility in solvent data is not available.

Solubility as solvent data is not available.

n-Octanol/water partition coefficient data is not available.

Vapor pressure data is not available.

Density and/or relative density data is not available.

Relative vapor density (Air=1) data is not available.

Particle characteristics data is not available.

9.2 Other information

Other information is not available.

Section 10. Stability and Reactivity

10.1 Reactivity

Reactivity data is not available.

10.2 Chemical stability

Stable under normal storage/handling conditions.

10.3 Possibility of hazardous reactions

Possibility of hazardous reactions data is not available.

10.4 Conditions to avoid

Conditions to avoid data is not available.

10.5 Incompatible materials

Incompatible materials data is not available.

10.6 Hazardous decomposition products

Hazardous decomposition products data is not available.

Section 11. Toxicological Information

11.1 Information on toxicological effects

Acute toxicity

Acute toxicity (Oral)

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

Acute toxicity (Dermal)

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

Acute toxicity (Inhalation)

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

Acute toxicity data is not available.

Irritant properties

Skin corrosion/irritation

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[Product]
       Classification not possible (Insufficient data available or no data available).
    [Product data]
       No data available.
    [Data for components of the product]
       No data available.
  Skin corrosion/irritation data is not available.
  Serious eye damage/irritation
    [Product]
       Classification not possible (Insufficient data available or no data available).
    [Product data]
       No data available.
    [Data for components of the product]
       No data available.
  Serious eye damage/irritation data is not available.
Sensitization
  Respiratory sensitization
    [Product]
       Classification not possible (Insufficient data available or no data available).
    [Product data]
       No data available.
    [Data for components of the product]
       No data available.
  Skin sensitization
    [Product]
       Classification not possible (Insufficient data available or no data available).
    [Product data]
       No data available.
    [Data for components of the product]
       No data available.
Allergenic and sensitizing effects data is not available.
Germ cell mutagenicity
    [Product]
       Classification not possible (Insufficient data available or no data available).
    [Product data]
       No data available.
    [Data for components of the product]
       No data available.
Mutagenic effects data is not available.
Carcinogenicity
    [Product]
       Classification not possible (Insufficient data available or no data available).
    [Product data]
       No data available.
    [Data for components of the product]
       No data available.
Carcinogenic effects data is not available.
Reproductive toxicity
    [Product]
       Classification not possible (Insufficient data available or no data available).
    [Product data]
       No data available.
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[Data for components of the product]

No data available.

Teratogenic effects data is not available.

Reproductive toxicity data is not available.

Specific target organ toxicity (STOT)

STOT-single exposure

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

STOT-single exposure data is not available.

STOT-repeated exposure

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

STOT-repeated exposure data is not available.

Aspiration hazard

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

Aspiration hazard data is not available.

11.2 Information on other hazards

Endocrine disrupting properties is not available.

Section 12. Ecological Information

12.1 Toxicity

Aquatic toxicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

Toxicity data is not available.

Water solubility

(potassium hydroxide)

110 g/100 ml (25°C) (ICSC, 2010)

12.2 Persistence and degradability

Persistence and degradability data is not available.

12.3 Bioaccumulative potential

Bioaccumulative potential data is not available.

12.4 Mobility in soil

Mobility in soil data is not available.

12.5 Results of PBT and vPvB assessment

PBT and/or vPvB assessment data is not available.

12.6 Endocrine disrupting properties

Endocrine disrupting properties is not available.

12.7 Other adverse effects

Ozone depleting chemical data is not available.

Section 13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging

13.1 Waste treatment methods

P273-Avoid release to the environment.

P501-Dispose of contents/container in accordance with local/national regulation.

Contaminated packing

Dispose of container after using the contents completely.

Section 14. Transport Information

UN No., UN CLASS

14.1 UN Number or ID Number : Not regulated14.2 UN Proper Shipping Name : Not regulated

14.3 Class or division (Transport hazard class): Not regulated

14.4 Packing group: Not regulated

ADR (European Agreement concerning the International Carriage of Dangerous Goods by Road)

14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name: Not regulated

14.3 Class or division (Transport hazard class): Not regulated

14.4 Packing group: Not regulated

ADN (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)

14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name: Not regulated

14.3 Class or division (Transport hazard class): Not regulated

14.4 Packing group: Not regulated

RID (Regulation concerning the International Carriage of Dangerous goods by Rail)

14.1 UN Number or ID Number: Not regulated

14.2 UN Proper Shipping Name: Not regulated

14.3 Class or division (Transport hazard class): Not regulated

14.4 Packing group: Not regulated

IMDG Code (International Maritime Dangerous Goods Regulations)

14.1 UN Number or ID Number: Not regulated

14.2 UN Proper Shipping Name: Not regulated

14.3 Class or division (Transport hazard class): Not regulated

14.4 Packing group: Not regulated

IATA (Dangerous Goods Regulations)

14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name: Not regulated

14.3 Class or division (Transport hazard class): Not regulated

14.4 Packing group: Not regulated

14.5 Environmental hazards

Marine pollutants (yes/no) : no

14.6 Special precautions for user

Special precautions for user is not applicable.

14.7 Maritime transport in bulk according to IMO instruments

MARPOL Annex II - Noxious Liquid Substances

Noxious Liquid Substances; Cat. Y

potassium hydroxide

Non Noxious Liquid Substances; Cat. OS

Water

MARPOL Annex V - HME (Harmful to the Marine Environment)

Not applicable to Maritime transport in bulk according to IMO instruments.

Section 15. Regulatory Information

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

U.S. Toxic Substances Control Act (TSCA) Inventory

Chemicals listed in TSCA Inventory

potassium hydroxide; HEPES; Water

Superfund Amendments and Reauthorizations Act (SARA), Title III

This product contains no chemicals subjected to reporting levels established by SARA Title III, Section 313.

California proposition 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

15.2 Chemical safety assessment

No chemical safety assessment has been carried out for this product.

Section 16. Other information

GHS classification and labelling

Not classified/Classification not possible

Full text of Hazard categories and Hazard statements referred to only section 3

Acute Tox. 4, H302 - Acute toxicity, Category 4: H302 Harmful if swallowed

Skin Corr. 1A, H314 - Skin corrosion/irritation, Category 1A: H314 Causes severe skin burns and eye damage

Skin Corr. 1B, H314 - Skin corrosion/irritation, Category 1B: H314 Causes severe skin burns and eye damage

Skin Irrit. 2, H315 - Skin corrosion/irritation, Category 2: H315 Causes skin irritation

Eye Irrit. 2, H319 - Serious eye damage/eye irritation, Category 2: H319 Causes serious eye irritation

References and sources for data

Globally Harmonized System of classification and labelling of chemicals, UN

Recommendations on the TRANSPORT OF DANGEROUS GOODS 22nd edit., 2021 UN

IMDG Code, 2020 Edition (Incorporating Amendment 40-20)

IATA Dangerous Goods Regulations (64th Edition) 2023

2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT)

2023 TLVs and BEIs. (ACGIH)

Supplier's data/information

Hazard Communication Standard - 2012 (29 CFR 1910.1200)

Chemicals safety data management system "GHS Assistant" Version 4.24

(https://www.asahi-ghs.com/)

Abbreviations and acronyms

C - Ceiling limit; irr - irritation; URT - upper respiratory tract

Revision information

First edition

General Disclaimer

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.



CycLex NAMPT Colorimetric Assay Kit Ver.2

Issue date: 20/Sep/2023

Safety Data Sheet

Section 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

Product name: CycLex NAMPT Colorimetric Assay Kit Ver.2

SDS NO: CY_1251V2_1003_E-1

Component: ADH

Product code:CY-1251V2

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the product: Research and Development

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Medical & Biological Laboratories (MBL) Co., Ltd. Address: 1018-1 Terasawaoka, Ina-shi, Nagano-ken 396-0002, Japan

Telephone number: +81-265-76-1777 e-mail address: sds-support@mbl.co.jp

1.4 Emergency telephone number: +81-265-76-1777 (Monday to Friday, 9 AM to 5 PM JST)

Section 2. Hazards identification

GHS classification and label elements of the product

2.1 Classification of the substance or mixture

Classification according to Hazard Communication Standard - 2012 (29 CFR 1910.1200)

Not classified/Classification not possible

2.2 Label elements

Labelling according to Hazard Communication Standard - 2012 (29 CFR 1910.1200)

No GHS label element

No Signal word

Section 3. Composition/information on ingredients

Mixture/Substance selection:

3.2 Mixture

Ingredient name	Content (%)	CAS No.	ECNO	Classification according to REGULATION (EC) No.1272/2008 [CLP]
Alcohol Dehydrogenase from Yeast	1.00	9031-72-5	232-870-4	_
1,3-Propanediol, 2-amino-2-(hydroxymethyl)-	0.61	77-86-1	201-064-4	_
Hydrochloric acid	2.20	7647-01-0	231–595–7	STOT SE 3, H335; Skin Corr. 1B, H314 [SCL's, M-Factors, ATE, Component notes] Skin Corr. 1B; H314: C >= 25 %; Skin Irrit. 2; H315: 10 % =< C < 25 %; Eye Irrit. 2; H319: 10 % =< C < 25 %; STOT SE 3; H335: C >= 10 %; note: [B]
Glycerin	50.00	56-81-5	200-289-5	-
Glutathione (reduced From)	<0.01	70-18-8	200-725-4	-
Water	45.00<	7732-18-5	231-791-2	_

Section 4. First-aid measures

4.1 Descriptions of first-aid measures

General measures

P314-Get medical advice/attention if you feel unwell.

IF INHALED

P304 + P312-Call a POISON CENTER/doctor/physician if you feel unwell.

IF ON SKIN (or hair)

P302 + P352-Wash with plenty of soap and water.

IF IN EYES

P305 + P351 + P338-Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.

IF SWALLOWED

P301 + P312-Call a POISON CENTER/doctor/physician if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Specific information on symptom and effect are unknown.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use appropriate extinguishing media suitable for surrounding facilities.

Unsuitable extinguishing media

Unsuitable extinguishing media data is not available.

5.2 Specific hazards arising from the substance or mixture

Specific hazards arising from the substance or mixture is not available.

5.3 Advice for firefighters

Specific fire-fighting measures

Evacuate non-essential personnel to safe area.

Special protective equipment and precautions for fire-fighters

P280A-Wear protective gloves/protective clothing/eye protection/face protection.

Section 6. Accidental release measures

6.1 Personnel precautions, protective equipment and emergency procedures

Stop leak if safe to do so.

6.2 Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

6.3 Methods and materials for containment and cleaning up

Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.

Preventive measures for secondary accident

P376-Stop leak if safe to do so.

Stop leak if you can do it without risk.

Prevent entry into waterways, sewers, basements or confined areas.

6.4 Reference to other sections

Refer to section 13

Section 7. Handling and storage

7.1 Precautions for safe handling

Preventive measures

(Exposure Control for handling personnel)

P260-Do not breathe dust/fume/gas/mist/vapors/spray.

Safety Measures

P280A-Wear protective gloves/protective clothing/eye protection/face protection.

Any incompatibilities data is not available.

Advice on general occupational hygiene

P264-Wash contaminated parts thoroughly after handling.

P270-Do not eat, drink or smoke when using this product.

7.2 Storage

Conditions for safe storage

P233-Keep container tightly closed.

P235 + P410-Keep cool. Protect from sunlight.

Container and packaging materials for safe handling data is not available.

7.3 Specific end use(s)

For the relevant identified use(s)listed in Section 1 the advice mentioned in this section 7 is to be observed.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Adopted value

(Hydrochloric acid)

ACGIH(2002) STEL: C 2ppm (URT irr)

EU Occupational exposure limit values (Workplace Exposure limits) compliant to relevant EU Directive through 91/332/EEC to 2019/1831/EU

(Hydrochloric acid)

LTEL: 8mg/m3; 5ppm

STEL: 15mg/m3; 10ppm

OSHA-PEL

(Hydrochloric acid)

STEL: C 5ppm, 7mg/m3

(Glycerin)

TWA: 15mg/m3 (Total dust)

TWA: 5mg/m3 (Respirable fraction)

NIOSH-REL

(Glycerin)

See Appendix D

(Hydrochloric acid)

STEL: C 5ppm

8.2 Exposure controls

Appropriate engineering controls

Do not use in areas without adequate ventilation.

Individual protection measures

Hand protection

Wear protective gloves.

Eye protection

Wear eye/face protection.

Skin and body protection

Wear protective clothing.

Section 9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical state: Liquid Color: Colorless

Odor data is not available.

Melting point/Freezing point data is not available.

Boiling point or initial boiling point data is not available.

Boiling range data is not available.

Flammability (gases, liquids and solids) data is not available.

Lower and upper explosion limit/flammability limit data is not available.

Flash point data is not available.

Auto-ignition temperature data is not available.

Decomposition temperature data is not available.

pH: 7.3⁷.8

Kinematic viscosity data is not available.

Solubility:

Solubility in water data is not available.

Solubility in solvent data is not available.

Solubility as solvent data is not available.

n-Octanol/water partition coefficient data is not available.

Vapor pressure data is not available.

Density and/or relative density data is not available.

Relative vapor density (Air=1) data is not available.

Particle characteristics data is not available.

9.2 Other information

Other information is not available.

Section 10. Stability and Reactivity

10.1 Reactivity

Reactivity data is not available.

10.2 Chemical stability

Stable under normal storage/handling conditions.

10.3 Possibility of hazardous reactions

Possibility of hazardous reactions data is not available.

10.4 Conditions to avoid

Conditions to avoid data is not available.

10.5 Incompatible materials

Incompatible materials data is not available.

10.6 Hazardous decomposition products

Irritating gases and/or vapors

Hazardous decomposition products data is not available.

Section 11. Toxicological Information

11.1 Information on toxicological effects

Acute toxicity

Acute toxicity (Oral)

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

Acute toxicity (Dermal)

[Product]

Classification not possible (Insufficient data available or no data available). [Product data] No data available. [Data for components of the product] No data available. Acute toxicity (Inhalation) [Product] Classification not possible (Insufficient data available or no data available). [Product data] No data available. [Data for components of the product] No data available. Acute toxicity data is not available. Irritant properties Skin corrosion/irritation [Product] Classification not possible (Insufficient data available or no data available). [Product data] No data available. [Data for components of the product] No data available. Skin corrosion/irritation data is not available. Serious eye damage/irritation [Product] Classification not possible (Insufficient data available or no data available). [Product data] No data available. [Data for components of the product] No data available. Serious eye damage/irritation data is not available. Sensitization Respiratory sensitization [Product] Classification not possible (Insufficient data available or no data available). [Product data] No data available. [Data for components of the product] No data available. Skin sensitization [Product] Classification not possible (Insufficient data available or no data available). [Product data] No data available. [Data for components of the product] No data available. Allergenic and sensitizing effects data is not available. Germ cell mutagenicity [Product] Classification not possible (Insufficient data available or no data available). [Product data] No data available. [Data for components of the product] No data available. Mutagenic effects data is not available.

Carcinogenicity [Product] Classification not possible (Insufficient data available or no data available). [Product data] No data available. [Data for components of the product] No data available. [IARC] (Hydrochloric acid) Group 3: Not classifiable as to its carcinogenicity to humans [ACGIH] (Hydrochloric acid) A4(2002): Not Classifiable as a Human Carcinogen Reproductive toxicity [Product] Classification not possible (Insufficient data available or no data available). [Product data] No data available. [Data for components of the product] No data available. Teratogenic effects data is not available. Reproductive toxicity data is not available. Specific target organ toxicity (STOT) STOT-single exposure [Product] Classification not possible (Insufficient data available or no data available). [Product data] No data available. [Data for components of the product] No data available. STOT-single exposure data is not available. STOT-repeated exposure [Product] Classification not possible (Insufficient data available or no data available). [Product data] No data available. [Data for components of the product] No data available. STOT-repeated exposure data is not available. Aspiration hazard [Product] Classification not possible (Insufficient data available or no data available). [Product data] No data available. [Data for components of the product] No data available. Aspiration hazard data is not available. 11.2 Information on other hazards Endocrine disrupting properties is not available.

Section 12. Ecological Information

12.1 Toxicity

Aquatic toxicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

Toxicity data is not available.

Water solubility

(Hydrochloric acid)

67 g/100 ml (30°C) (ICSC, 2000)

(Glycerin)

miscible (ICSC, 2006)

12.2 Persistence and degradability

Persistence and degradability data is not available.

12.3 Bioaccumulative potential

[Data for components of the product]

(Hydrochloric acid)

log Pow=0.25 (ICSC, 2000)

(Glycerin)

log Pow=-1.76 (ICSC, 2006)

12.4 Mobility in soil

Mobility in soil data is not available.

12.5 Results of PBT and vPvB assessment

PBT and/or vPvB assessment data is not available.

12.6 Endocrine disrupting properties

Endocrine disrupting properties is not available.

12.7 Other adverse effects

Ozone depleting chemical data is not available.

Section 13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging

13.1 Waste treatment methods

P273-Avoid release to the environment.

P501-Dispose of contents/container in accordance with local/national regulation.

Contaminated packing

Dispose of container after using the contents completely.

Section 14. Transport Information

UN No., UN CLASS

14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name : Not regulated

14.3 Class or division (Transport hazard class): Not regulated

14.4 Packing group: Not regulated

ADR (European Agreement concerning the International Carriage of Dangerous Goods by Road)

14.1 UN Number or ID Number: Not regulated

14.2 UN Proper Shipping Name: Not regulated

14.3 Class or division (Transport hazard class): Not regulated

14.4 Packing group: Not regulated

ADN (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)

14.1 UN Number or ID Number: Not regulated

14.2 UN Proper Shipping Name: Not regulated

14.3 Class or division (Transport hazard class): Not regulated

14.4 Packing group: Not regulated

RID (Regulation concerning the International Carriage of Dangerous goods by Rail)

14.1 UN Number or ID Number: Not regulated 14.2 UN Proper Shipping Name: Not regulated

14.3 Class or division (Transport hazard class): Not regulated

14.4 Packing group: Not regulated

IMDG Code (International Maritime Dangerous Goods Regulations)

14.1 UN Number or ID Number: Not regulated 14.2 UN Proper Shipping Name: Not regulated

14.3 Class or division (Transport hazard class): Not regulated

14.4 Packing group: Not regulated

IATA (Dangerous Goods Regulations)

14.1 UN Number or ID Number: Not regulated 14.2 UN Proper Shipping Name: Not regulated

14.3 Class or division (Transport hazard class): Not regulated

14.4 Packing group: Not regulated

14.5 Environmental hazards

Marine pollutants (yes/no): no

14.6 Special precautions for user

Special precautions for user is not applicable.

14.7 Maritime transport in bulk according to IMO instruments

MARPOL Annex II - Noxious Liquid Substances

Noxious Liquid Substances; Cat. Z

Hydrochloric acid; Glycerin

Non Noxious Liquid Substances; Cat. OS

Water

MARPOL Annex V - HME (Harmful to the Marine Environment)

Specific target organ toxicity - repeated exposure: cat.1

Hydrochloric acid

Hazardous to the aquatic environment - short-term (acute): cat.1

Hydrochloric acid

Section 15. Regulatory Information

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

U.S. Toxic Substances Control Act (TSCA) Inventory

Chemicals listed in TSCA Inventory

Glycerin; Glutathione (reduced From); 1,3-Propanediol, 2-amino-2-(hydroxymethyl)-;

Hydrochloric acid; Water; Alcohol Dehydrogenase from Yeast

Superfund Amendments and Reauthorizations Act (SARA), Title III

SARA 313 (TRI)

Hydrochloric acid

California proposition 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

15.2 Chemical safety assessment

No chemical safety assessment has been carried out for this product.

Section 16. Other information

GHS classification and labelling

Not classified/Classification not possible

Full text of Hazard categories and Hazard statements referred to only section 3

Skin Corr. 1B, H314 - Skin corrosion/irritation, Category 1B: H314 Causes severe skin burns and eye damage

Skin Irrit. 2, H315 - Skin corrosion/irritation, Category 2: H315 Causes skin irritation

Eye Irrit. 2, H319 - Serious eye damage/eye irritation, Category 2: H319 Causes serious eye irritation

STOT SE 3, H335 - STOT - single exposure, Category 3, Respiratory tract irritation: H335 May cause respiratory irritation.

References and sources for data

Globally Harmonized System of classification and labelling of chemicals, UN

Recommendations on the TRANSPORT OF DANGEROUS GOODS 22nd edit., 2021 UN

IMDG Code, 2020 Edition (Incorporating Amendment 40-20)

IATA Dangerous Goods Regulations (64th Edition) 2023

2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT)

2023 TLVs and BEIs. (ACGIH)

Supplier's data/information

Hazard Communication Standard - 2012 (29 CFR 1910.1200)

Chemicals safety data management system "GHS Assistant" Version 4.24

(https://www.asahi-ghs.com/)

Revision information

First edition

General Disclaimer

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.



CycLex NAMPT Colorimetric Assay Kit Ver.2

Issue date: 20/Sep/2023

Safety Data Sheet

Section 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

Product name: CycLex NAMPT Colorimetric Assay Kit Ver.2

SDS NO:CY_1251V2_1004_E-1

Component: Diaphorase Product code: CY-1251V2

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the product: Research and Development

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Medical & Biological Laboratories (MBL) Co., Ltd. Address: 1018-1 Terasawaoka, Ina-shi, Nagano-ken 396-0002, Japan

Telephone number: +81-265-76-1777 e-mail address: sds-support@mbl.co.jp

1.4 Emergency telephone number: +81-265-76-1777 (Monday to Friday, 9 AM to 5 PM JST)

Section 2. Hazards identification

GHS classification and label elements of the product

2.1 Classification of the substance or mixture

Classification according to Hazard Communication Standard - 2012 (29 CFR 1910.1200)

Not classified/Classification not possible

2.2 Label elements

Labelling according to Hazard Communication Standard - 2012 (29 CFR 1910.1200)

No GHS label element

No Signal word

Section 3. Composition/information on ingredients

Mixture/Substance selection:

3.2 Mixture

Ingredient name	Content (%)	CAS No.	ECNO	Classification according to REGULATION (EC) No.1272/2008 [CLP]
Dehydrogenase, reduced nicotinamide adenine dinucleotide phosphate	0.40	9001-68-7	-	-
1,3-Propanediol, 2-amino-2-(hydroxymethyl)-	0.61	77-86-1	201-064-4	-
Hydrochloric acid	2.20	7647-01-0	231–595–7	STOT SE 3, H335; Skin Corr. 1B, H314 [SCL's, M-Factors, ATE, Component notes] Skin Corr. 1B; H314: $C \ge 25$ %; Skin Irrit. 2; H315: 10 % =< $C < 25$ %; Eye Irrit. 2; H319: 10 % =< $C < 25$ %; STOT SE 3; H335: $C \ge 10$ %; note: [B]
Glycerin	50.00	56-81-5	200-289-5	1
Water	46.00<	7732-18-5	231-791-2	-

Section 4. First-aid measures

4.1 Descriptions of first-aid measures

General measures

P314-Get medical advice/attention if you feel unwell.

IF INHALED

P304 + P312-Call a POISON CENTER/doctor/physician if you feel unwell.

IF ON SKIN (or hair)

P302 + P352-Wash with plenty of soap and water.

IF IN EYES

P305 + P351 + P338-Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.

IF SWALLOWED

P301 + P312-Call a POISON CENTER/doctor/physician if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Specific information on symptom and effect are unknown.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use appropriate extinguishing media suitable for surrounding facilities.

Unsuitable extinguishing media

Unsuitable extinguishing media data is not available.

5.2 Specific hazards arising from the substance or mixture

Specific hazards arising from the substance or mixture is not available.

5.3 Advice for firefighters

Specific fire-fighting measures

Evacuate non-essential personnel to safe area.

Special protective equipment and precautions for fire-fighters

P280A-Wear protective gloves/protective clothing/eye protection/face protection.

Section 6. Accidental release measures

6.1 Personnel precautions, protective equipment and emergency procedures

Stop leak if safe to do so.

6.2 Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

6.3 Methods and materials for containment and cleaning up

Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.

Preventive measures for secondary accident

P376-Stop leak if safe to do so.

Stop leak if you can do it without risk.

Prevent entry into waterways, sewers, basements or confined areas.

6.4 Reference to other sections

Refer to section 13

7.1 Precautions for safe handling

Preventive measures

(Exposure Control for handling personnel)

P260-Do not breathe dust/fume/gas/mist/vapors/spray.

Safety Measures

P280A-Wear protective gloves/protective clothing/eye protection/face protection.

Any incompatibilities data is not available.

Advice on general occupational hygiene

P264-Wash contaminated parts thoroughly after handling.

P270-Do not eat, drink or smoke when using this product.

7.2 Storage

Conditions for safe storage

P233-Keep container tightly closed.

P235 + P410-Keep cool. Protect from sunlight.

Container and packaging materials for safe handling data is not available.

7.3 Specific end use(s)

For the relevant identified use(s)listed in Section 1 the advice mentioned in this section 7 is to be observed.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Adopted value

(Hydrochloric acid)

ACGIH(2002) STEL: C 2ppm (URT irr)

EU Occupational exposure limit values (Workplace Exposure limits) compliant to relevant EU

Directive through 91/332/EEC to 2019/1831/EU

(Hydrochloric acid)

LTEL: 8mg/m3; 5ppm

STEL: 15mg/m3; 10ppm

OSHA-PEL

(Hydrochloric acid)

STEL: C 5ppm, 7mg/m3

(Glycerin)

TWA: 15mg/m3 (Total dust)

TWA: 5mg/m3 (Respirable fraction)

NIOSH-REL

(Glycerin)

See Appendix D

(Hydrochloric acid)

STEL: C 5ppm

8.2 Exposure controls

Appropriate engineering controls

Do not use in areas without adequate ventilation.

Individual protection measures

Hand protection

Wear protective gloves.

Eye protection

Wear eye/face protection.

Skin and body protection

Wear protective clothing.

9.1 Information on basic physical and chemical properties

Physical state: Liquid

Color: Colorless

Odor data is not available.

Melting point/Freezing point data is not available.

Boiling point or initial boiling point data is not available.

Boiling range data is not available.

Flammability (gases, liquids and solids) data is not available.

Lower and upper explosion limit/flammability limit data is not available.

Flash point data is not available.

Auto-ignition temperature data is not available.

Decomposition temperature data is not available.

pH: 7.3⁷.8

Kinematic viscosity data is not available.

Solubility:

Solubility in water data is not available.

Solubility in solvent data is not available.

Solubility as solvent data is not available.

n-Octanol/water partition coefficient data is not available.

Vapor pressure data is not available.

Density and/or relative density data is not available.

Relative vapor density (Air=1) data is not available.

Particle characteristics data is not available.

9.2 Other information

Other information is not available.

Section 10. Stability and Reactivity

10.1 Reactivity

Reactivity data is not available.

10.2 Chemical stability

Stable under normal storage/handling conditions.

10.3 Possibility of hazardous reactions

Possibility of hazardous reactions data is not available.

10.4 Conditions to avoid

Conditions to avoid data is not available.

10.5 Incompatible materials

Incompatible materials data is not available.

10.6 Hazardous decomposition products

Irritating gases and/or vapors

Hazardous decomposition products data is not available.

Section 11. Toxicological Information

11.1 Information on toxicological effects

Acute toxicity

Acute toxicity (Oral)

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

Acute toxicity (Dermal)

No data available.

```
[Product]
       Classification not possible (Insufficient data available or no data available).
     [Product data]
       No data available.
     [Data for components of the product]
       No data available.
  Acute toxicity (Inhalation)
     [Product]
       Classification not possible (Insufficient data available or no data available).
     [Product data]
       No data available.
     [Data for components of the product]
       No data available.
Acute toxicity data is not available.
Irritant properties
  Skin corrosion/irritation
     [Product]
       Classification not possible (Insufficient data available or no data available).
     [Product data]
       No data available.
     [Data for components of the product]
       No data available.
  Skin corrosion/irritation data is not available.
  Serious eye damage/irritation
     [Product]
       Classification not possible (Insufficient data available or no data available).
     [Product data]
       No data available.
     [Data for components of the product]
       No data available.
  Serious eye damage/irritation data is not available.
Sensitization
  Respiratory sensitization
     [Product]
       Classification not possible (Insufficient data available or no data available).
     [Product data]
       No data available.
     [Data for components of the product]
       No data available.
  Skin sensitization
     [Product]
       Classification not possible (Insufficient data available or no data available).
     [Product data]
       No data available.
     [Data for components of the product]
       No data available.
Allergenic and sensitizing effects data is not available.
Germ cell mutagenicity
     [Product]
       Classification not possible (Insufficient data available or no data available).
     [Product data]
       No data available.
     [Data for components of the product]
```

```
Mutagenic effects data is not available.
Carcinogenicity
    [Product]
       Classification not possible (Insufficient data available or no data available).
    [Product data]
       No data available.
    [Data for components of the product]
       No data available.
       [IARC]
       (Hvdrochloric acid)
       Group 3: Not classifiable as to its carcinogenicity to humans
       [ACGIH]
       (Hydrochloric acid)
       A4(2002): Not Classifiable as a Human Carcinogen
Reproductive toxicity
    [Product]
       Classification not possible (Insufficient data available or no data available).
    [Product data]
       No data available.
    [Data for components of the product]
       No data available.
Teratogenic effects data is not available.
Reproductive toxicity data is not available.
Specific target organ toxicity (STOT)
  STOT-single exposure
    [Product]
       Classification not possible (Insufficient data available or no data available).
    [Product data]
       No data available.
    [Data for components of the product]
       No data available.
  STOT-single exposure data is not available.
  STOT-repeated exposure
    [Product]
       Classification not possible (Insufficient data available or no data available).
    [Product data]
       No data available.
    [Data for components of the product]
       No data available.
  STOT-repeated exposure data is not available.
Aspiration hazard
    [Product]
       Classification not possible (Insufficient data available or no data available).
    [Product data]
       No data available.
    [Data for components of the product]
       No data available.
Aspiration hazard data is not available.
11.2 Information on other hazards
  Endocrine disrupting properties is not available.
```

Section 12. Ecological Information

12.1 Toxicity

Aquatic toxicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

Toxicity data is not available.

Water solubility

(Hydrochloric acid)

67 g/100 ml (30°C) (ICSC, 2000)

(Glycerin)

miscible (ICSC, 2006)

12.2 Persistence and degradability

Persistence and degradability data is not available.

12.3 Bioaccumulative potential

[Data for components of the product]

(Hydrochloric acid)

log Pow=0.25 (ICSC, 2000)

(Glycerin)

log Pow=-1.76 (ICSC, 2006)

12.4 Mobility in soil

Mobility in soil data is not available.

12.5 Results of PBT and vPvB assessment

PBT and/or vPvB assessment data is not available.

12.6 Endocrine disrupting properties

Endocrine disrupting properties is not available.

12.7 Other adverse effects

Ozone depleting chemical data is not available.

Section 13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging

13.1 Waste treatment methods

P273-Avoid release to the environment.

P501-Dispose of contents/container in accordance with local/national regulation.

Contaminated packing

Dispose of container after using the contents completely.

Section 14. Transport Information

UN No., UN CLASS

14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name : Not regulated

14.3 Class or division (Transport hazard class): Not regulated

14.4 Packing group : Not regulated

ADR (European Agreement concerning the International Carriage of Dangerous Goods by Road)

14.1 UN Number or ID Number: Not regulated

14.2 UN Proper Shipping Name: Not regulated

14.3 Class or division (Transport hazard class): Not regulated

14.4 Packing group: Not regulated

ADN (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)

14.1 UN Number or ID Number: Not regulated 14.2 UN Proper Shipping Name: Not regulated

14.3 Class or division (Transport hazard class): Not regulated

14.4 Packing group: Not regulated

RID (Regulation concerning the International Carriage of Dangerous goods by Rail)

14.1 UN Number or ID Number : Not regulated14.2 UN Proper Shipping Name : Not regulated

14.3 Class or division (Transport hazard class): Not regulated

14.4 Packing group: Not regulated

IMDG Code (International Maritime Dangerous Goods Regulations)

14.1 UN Number or ID Number: Not regulated 14.2 UN Proper Shipping Name: Not regulated

14.3 Class or division (Transport hazard class): Not regulated

14.4 Packing group: Not regulated

IATA (Dangerous Goods Regulations)

14.1 UN Number or ID Number : Not regulated 14.2 UN Proper Shipping Name : Not regulated

14.3 Class or division (Transport hazard class): Not regulated

14.4 Packing group: Not regulated

14.5 Environmental hazards

Marine pollutants (yes/no): no

14.6 Special precautions for user

Special precautions for user is not applicable.

14.7 Maritime transport in bulk according to IMO instruments

MARPOL Annex II - Noxious Liquid Substances

Noxious Liquid Substances; Cat. Z

Hydrochloric acid; Glycerin

Non Noxious Liquid Substances; Cat. OS

Water

MARPOL Annex V - HME (Harmful to the Marine Environment)

Specific target organ toxicity - repeated exposure: cat.1

Hydrochloric acid

Hazardous to the aquatic environment - short-term (acute): cat.1

Hydrochloric acid

Section 15. Regulatory Information

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

U.S. Toxic Substances Control Act (TSCA) Inventory

Chemicals listed in TSCA Inventory

Glycerin; 1,3-Propanediol, 2-amino-2-(hydroxymethyl)-; Hydrochloric acid; Water;

Dehydrogenase, reduced nicotinamide adenine dinucleotide phosphate

Superfund Amendments and Reauthorizations Act (SARA), Title III

SARA 313 (TRI)

Hydrochloric acid

California proposition 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

15.2 Chemical safety assessment

No chemical safety assessment has been carried out for this product.

GHS classification and labelling

Not classified/Classification not possible

Full text of Hazard categories and Hazard statements referred to only section 3

Skin Corr. 1B, H314 - Skin corrosion/irritation, Category 1B: H314 Causes severe skin burns and eye damage

Skin Irrit. 2, H315 - Skin corrosion/irritation, Category 2: H315 Causes skin irritation

Eye Irrit. 2, H319 - Serious eye damage/eye irritation, Category 2: H319 Causes serious eye irritation

STOT SE 3, H335 - STOT - single exposure, Category 3, Respiratory tract irritation: H335 May cause respiratory irritation.

References and sources for data

Globally Harmonized System of classification and labelling of chemicals, UN

Recommendations on the TRANSPORT OF DANGEROUS GOODS 22nd edit., 2021 UN

IMDG Code, 2020 Edition (Incorporating Amendment 40-20)

IATA Dangerous Goods Regulations (64th Edition) 2023

2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT)

2023 TLVs and BEIs. (ACGIH)

Supplier's data/information

Hazard Communication Standard - 2012 (29 CFR 1910.1200)

Chemicals safety data management system "GHS Assistant" Version 4.24

(https://www.asahi-ghs.com/)

Revision information

First edition

General Disclaimer

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.



CycLex NAMPT Colorimetric Assay Kit Ver.2

Issue date: 20/Sep/2023

Safety Data Sheet

Section 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

Product name: CycLex NAMPT Colorimetric Assay Kit Ver.2

SDS NO: CY_1251V2_1005_E-1 Component: EtOH Solution Product code: CY-1251V2

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the product: Research and Development

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Medical & Biological Laboratories (MBL) Co., Ltd. Address: 1018-1 Terasawaoka, Ina-shi, Nagano-ken 396-0002, Japan

Telephone number: +81-265-76-1777 e-mail address: sds-support@mbl.co.jp

1.4 Emergency telephone number: +81-265-76-1777 (Monday to Friday, 9 AM to 5 PM JST)

Section 2. Hazards identification

GHS classification and label elements of the product

2.1 Classification of the substance or mixture

Classification according to Hazard Communication Standard - 2012 (29 CFR 1910.1200)

HEALTH HAZARDS

Serious eye damage/eye irritation: Category 2B

Carcinogenicity: Category 1A
Reproductive toxicity: Category 1A

Specific target organ toxicity - single exposure: Category 3 (Respiratory tract irritation)

Specific target organ toxicity - single exposure: Category 3 (Narcotic effects)

Specific target organ toxicity - repeated exposure: Category 1

2.2 Label elements

Labelling according to Hazard Communication Standard - 2012 (29 CFR 1910.1200)





Signal word: Danger HAZARD STATEMENT

H320-Causes eye irritation

H350-May cause cancer

H360-May damage fertility or the unborn child

H335-May cause respiratory irritation

H336-May cause drowsiness or dizziness

H372-Causes damage to organs through prolonged or repeated exposure

PRECAUTIONARY STATEMENT

Prevention

 ${\tt P260-Do\ not\ breathe\ dust/fume/gas/mist/vapors/spray}.$

P261-Avoid breathing dust/fume/gas/mist/vapors/spray.

P271-Use only outdoors or in a well-ventilated area.

P264-Wash contaminated parts thoroughly after handling.

P280-Use personal protective equipment as required.

P270-Do not eat, drink or smoke when using this product.

Response

P314-Get medical advice/attention if you feel unwell.

P308 + P313-IF exposed or concerned: Get medical advice/attention.

P312-Call a POISON CENTER/doctor/physician if you feel unwell.

P304 + P340-IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313-If eye irritation persists: Get medical advice/attention.

Storage

P403-Store in a well-ventilated place. P233-Keep container tightly closed.

Disposal

P501-Dispose of contents/container in accordance with local/national regulation.

2.3 Other hazards

The product does not contain any ingredient designated as PBT and/or vPvB.

The product does not contain any ingredients designated as Endocrine disrupting properties.

Section 3. Composition/information on ingredients

Mixture/Substance selection:

3.2 Mixture

Ingredient name	Content (%)	CAS No.	ECNO	Classification according to REGULATION (EC) No.1272/2008 [CLP]
Ethyl alcohol	30.00	64-17-5	200-578-6	Flam. Liq. 2, H225
Water	70.00	7732-18-5	231-791-2	-

Section 4. First-aid measures

4.1 Descriptions of first-aid measures

General measures

P314-Get medical advice/attention if you feel unwell.

P308 + P313-IF exposed or concerned: Get medical advice/attention.

P312-Call a POISON CENTER/doctor/physician if you feel unwell.

IF INHALED

P304 + P340-Remove person to fresh air and keep comfortable for breathing.

P304 + P312-Call a POISON CENTER/doctor/physician if you feel unwell.

IF ON SKIN (or hair)

P302 + P352-Wash with plenty of soap and water.

IF IN EYES

P305 + P351 + P338-Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.

P337 + P313-If eye irritation persists: Get medical advice/attention.

IF SWALLOWED

P301 + P312-Call a POISON CENTER/doctor/physician if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Specific information on symptom and effect are unknown.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use appropriate extinguishing media suitable for surrounding facilities.

Unsuitable extinguishing media

Unsuitable extinguishing media data is not available.

5.2 Specific hazards arising from the substance or mixture

Specific hazards arising from the substance or mixture is not available.

5.3 Advice for firefighters

Specific fire-fighting measures

Evacuate non-essential personnel to safe area.

Special protective equipment and precautions for fire-fighters

P280A-Wear protective gloves/protective clothing/eye protection/face protection.

Section 6. Accidental release measures

6.1 Personnel precautions, protective equipment and emergency procedures

Stop leak if safe to do so.

6.2 Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

6.3 Methods and materials for containment and cleaning up

Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.

Preventive measures for secondary accident

P376-Stop leak if safe to do so.

Stop leak if you can do it without risk.

Prevent entry into waterways, sewers, basements or confined areas.

6.4 Reference to other sections

Refer to section 13

Section 7. Handling and storage

7.1 Precautions for safe handling

Preventive measures

(Exposure Control for handling personnel)

P260-Do not breathe dust/fume/gas/mist/vapors/spray.

P261-Avoid breathing dust/fume/gas/mist/vapors/spray.

Safety Measures

P271-Use only outdoors or in a well-ventilated area.

P280A-Wear protective gloves/protective clothing/eye protection/face protection.

P280-Use personal protective equipment as required.

Any incompatibilities data is not available.

Advice on general occupational hygiene

P264-Wash contaminated parts thoroughly after handling.

P270-Do not eat, drink or smoke when using this product.

7.2 Storage

Conditions for safe storage

P403-Store in a well-ventilated place. P233-Keep container tightly closed.

P235 + P410-Keep cool. Protect from sunlight.

Container and packaging materials for safe handling data is not available.

7.3 Specific end use(s)

For the relevant identified use(s)listed in Section 1 the advice mentioned in this section 7 is to be observed.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Adopted value

(Ethyl alcohol)

ACGIH(2009) STEL: 1000ppm (URT irr)

OSHA-PEL

(Ethyl alcohol)

TWA: 1000ppm, 1900mg/m3

NIOSH-REL

(Ethyl alcohol) TWA: 1000ppm 8.2 Exposure controls

Appropriate engineering controls

Do not use in areas without adequate ventilation.

Individual protection measures

Hand protection

Wear protective gloves.

Eye protection

Wear eye/face protection.

Skin and body protection

Wear protective clothing.

Section 9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical state: Liquid

Color: Colorless

Odor data is not available.

Melting point/Freezing point data is not available.

Boiling point or initial boiling point data is not available.

Boiling range data is not available.

Flammability (gases, liquids and solids) data is not available.

Lower and upper explosion limit/flammability limit data is not available.

Flash point data is not available.

Auto-ignition temperature data is not available.

Decomposition temperature data is not available.

pH: No information

Kinematic viscosity data is not available.

Solubility:

Solubility in water data is not available.

Solubility in solvent data is not available.

Solubility as solvent data is not available.

n-Octanol/water partition coefficient data is not available.

Vapor pressure data is not available.

Density and/or relative density data is not available.

Relative vapor density (Air=1) data is not available.

Particle characteristics data is not available.

9.2 Other information

Other information is not available.

Section 10. Stability and Reactivity

10.1 Reactivity

Reactivity data is not available.

10.2 Chemical stability

Stable under normal storage/handling conditions.

10.3 Possibility of hazardous reactions

Possibility of hazardous reactions data is not available.

10.4 Conditions to avoid

Conditions to avoid data is not available.

10.5 Incompatible materials

Incompatible materials data is not available.

10.6 Hazardous decomposition products

Hazardous decomposition products data is not available.

Section 11. Toxicological Information

11.1 Information on toxicological effects

Acute toxicity

Acute toxicity (Oral)

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

Acute toxicity (Dermal)

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

Acute toxicity (Inhalation)

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

Acute toxicity data is not available.

Irritant properties

Skin corrosion/irritation

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

Skin corrosion/irritation data is not available.

Serious eye damage/irritation

[Product]

Category 2B, Causes eye irritation

[Product data]

No data available.

[Data for components of the product]

```
No data available.
Sensitization
  Respiratory sensitization
    [Product]
       Classification not possible (Insufficient data available or no data available).
    [Product data]
       No data available.
    [Data for components of the product]
       No data available.
  Skin sensitization
    [Product]
       Classification not possible (Insufficient data available or no data available).
    [Product data]
       No data available.
    [Data for components of the product]
       No data available.
Allergenic and sensitizing effects data is not available.
Germ cell mutagenicity
    [Product]
       Classification not possible (Insufficient data available or no data available).
    [Product data]
       No data available.
    [Data for components of the product]
       No data available.
Mutagenic effects data is not available.
Carcinogenicity
    [Product]
       Category 1A, May cause cancer
    [Product data]
       No data available.
    [Data for components of the product]
       No data available.
       [IARC]
       (Ethyl alcohol)
       Group 1: Carcinogenic to humans
       [ACGIH]
       (Ethyl alcohol)
       A3(2009): Confirmed Animal Carcinogen with Unknown Relevance to Humans
Reproductive toxicity
    [Product]
       Category 1A, May damage fertility or the unborn child
    [Product data]
       No data available.
    [Data for components of the product]
       No data available.
Teratogenic effects data is not available.
Specific target organ toxicity (STOT)
  STOT-single exposure
    [Product]
       Category 3, May cause respiratory irritation
       Category 3, May cause drowsiness or dizziness
    [Product data]
       No data available.
```

[Data for components of the product]

No data available.

STOT-repeated exposure

[Product]

Category 1, Causes damage to organs through prolonged or repeated exposure

[Product data]

No data available.

[Data for components of the product]

No data available.

Aspiration hazard

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

Aspiration hazard data is not available.

11.2 Information on other hazards

Endocrine disrupting properties is not available.

Section 12. Ecological Information

12.1 Toxicity

Aquatic toxicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

Toxicity data is not available.

Water solubility

(Ethyl alcohol)

miscible (ICSC, 2000)

12.2 Persistence and degradability

[Data for components of the product]

(Ethyl alcohol)

Rapidly degradable (BOD_Degradation: 89% (METI existing chemical safety inspections, 1993))

12.3 Bioaccumulative potential

[Data for components of the product]

(Ethyl alcohol)

log Pow=-0.32 (ICSC, 2000)

12.4 Mobility in soil

Mobility in soil data is not available.

12.5 Results of PBT and vPvB assessment

PBT and/or vPvB assessment data is not available.

12.6 Endocrine disrupting properties

Endocrine disrupting properties is not available.

12.7 Other adverse effects

Ozone depleting chemical data is not available.

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Section 13. Disposal considerations
```

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging

13.1 Waste treatment methods

P273-Avoid release to the environment.

P501-Dispose of contents/container in accordance with local/national regulation.

Contaminated packing

Dispose of container after using the contents completely.

Section 14. Transport Information

UN No., UN CLASS

14.1 UN Number or ID Number: 1170

14.2 UN Proper Shipping Name:

ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

14.3 Class or division (Transport hazard class): 3

14.4 Packing group: II
ERG GUIDE No.: 127
Special provisions No.: 144
Limited quantities (upper limit): 1L

Excepted quantities (maximum net quantity): E2

Packing (P) instructions: P001

IBCs (IBC) packing instructions : IBC02 Portable tanks (T) instructions : T4

Portable tanks (TP) special provisions: TP1

ADR (European Agreement concerning the International Carriage of Dangerous Goods by Road)

14.1 UN Number or ID Number: 117014.2 UN Proper Shipping Name:

ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

14.3 Class or division (Transport hazard class): 3

Label: 3

14.4 Packing group : II Special provisions : 144; 601

ADN (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)

14.1 UN Number or ID Number: 1170

14.2 UN Proper Shipping Name:

ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

14.3 Class or division (Transport hazard class): 3

Label: 3

14.4 Packing group : II Special provisions : 144; 601

RID (Regulation concerning the International Carriage of Dangerous goods by Rail)

14.1 UN Number or ID Number : 1170

14.2 UN Proper Shipping Name:

ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

14.3 Class or division (Transport hazard class): 3

Label: 3

14.4 Packing group : II Special provisions : 144; 601

IMDG Code (International Maritime Dangerous Goods Regulations)

14.1 UN Number or ID Number: 1170

14.2 UN Proper Shipping Name:

ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

14.3 Class or division (Transport hazard class): 3

14.4 Packing group : II Special provisions No.: 144

IATA (Dangerous Goods Regulations)

14.1 UN Number or ID Number: 117014.2 UN Proper Shipping Name:

ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

14.3 Class or division (Transport hazard class): 3

Hazard labels : Flamm.liquid 14.4 Packing group : II

Special provisions No.: A3; A58; A180

14.5 Environmental hazards

Marine pollutants (yes/no): no

14.6 Special precautions for user

Special precautions for user is not applicable.

14.7 Maritime transport in bulk according to IMO instruments

MARPOL Annex II - Noxious Liquid Substances

Noxious Liquid Substances; Cat. Z

Ethyl alcohol

Non Noxious Liquid Substances; Cat. OS

Water

MARPOL Annex V - HME (Harmful to the Marine Environment)

Carcinogenicity: cat.1, 1A, 1B

Ethyl alcohol

Reproductive toxicity: cat.1, 1A, 1B

Ethyl alcohol

Specific target organ toxicity - repeated exposure: cat.1

Ethyl alcohol

Section 15. Regulatory Information

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

U.S. Toxic Substances Control Act (TSCA) Inventory

Chemicals listed in TSCA Inventory

Ethyl alcohol; Water

Superfund Amendments and Reauthorizations Act (SARA), Title III

This product contains no chemicals subjected to reporting levels established by SARA Title III, Section 313.

California proposition 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

15.2 Chemical safety assessment

No chemical safety assessment has been carried out for this product.

Section 16. Other information

GHS classification and labelling

H320-Serious eye damage/eye irritation, Category 2B: H320 Causes eye irritation

H350-Carcinogenicity, Category 1A: H350 May cause cancer

H360-Reproductive toxicity, Category 1A: H360 May damage fertility or the unborn child

H335-STOT - single exposure, Category 3, Respiratory tract irritation: H335 May cause respiratory irritation.

H336-STOT - single exposure, Category 3, Narcotic effects: H336 May cause drowsiness or dizziness.

H372-STOT - Repeated exposure, Category 1: H372 Causes damage to organs through prolonged or repeated exposure

Full text of Hazard categories and Hazard statements referred to only section 3

Flam. Liq. 2, H225 - Flammable liquids, Category 2: H225 Highly flammable liquid and vapour References and sources for data

Globally Harmonized System of classification and labelling of chemicals, UN

Recommendations on the TRANSPORT OF DANGEROUS GOODS 22nd edit., 2021 UN

IMDG Code, 2020 Edition (Incorporating Amendment 40-20)

IATA Dangerous Goods Regulations (64th Edition) 2023

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2023 TLVs and BEIs. (ACGIH)

Supplier's data/information

Hazard Communication Standard - 2012 (29 CFR 1910.1200)

Chemicals safety data management system "GHS Assistant" Version 4.24

(https://www.asahi-ghs.com/)

Abbreviations and acronyms

irr - irritation; URT - upper respiratory tract

Revision information

First edition

General Disclaimer

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.



CycLex NAMPT Colorimetric Assay Kit Ver.2

Issue date: 26/Sep/2023

Safety Data Sheet

Section 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

Product name: CycLex NAMPT Colorimetric Assay Kit Ver.2

SDS NO: CY_1251V2_1006_E-1

Component: ATP

Product code:CY-1251V2

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the product: Research and Development

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Medical & Biological Laboratories (MBL) Co., Ltd. Address: 1018-1 Terasawaoka, Ina-shi, Nagano-ken 396-0002, Japan

Telephone number: +81-265-76-1777 e-mail address: sds-support@mbl.co.jp

1.4 Emergency telephone number: +81-265-76-1777 (Monday to Friday, 9 AM to 5 PM JST)

Section 2. Hazards identification

GHS classification and label elements of the product

2.1 Classification of the substance or mixture

Classification according to Hazard Communication Standard - 2012 (29 CFR 1910.1200)

Not classified/Classification not possible

2.2 Label elements

No GHS label element

No Signal word

2.3 Other hazards

The product does not contain any ingredient designated as PBT and/or vPvB.

The product does not contain any ingredients designated as Endocrine disrupting properties.

Section 3. Composition/information on ingredients

Mixture/Substance selection:

3.2 Mixture

Ingredient name	Content (%)	CAS No.	ECNO	Classification according to REGULATION (EC) No.1272/2008 [CLP]
Adenosine-5'-triphosphate	2.03	56-65-5	-	-
1,3-Propanediol, 2-amino-2-(hydroxymethyl)-	1.21	77-86-1	201-064-4	-
Water	96.00<	7732-18-5	231-791-2	-

Section 4. First-aid measures

4.1 Descriptions of first-aid measures

General measures

P314-Get medical advice/attention if you feel unwell.

IF INHALED

P304 + P312-Call a POISON CENTER/doctor/physician if you feel unwell.

IF ON SKIN (or hair)

P302 + P352-Wash with plenty of soap and water.

IF IN EYES

P305 + P351 + P338-Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.

IF SWALLOWED

P301 + P312-Call a POISON CENTER/doctor/physician if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Specific information on symptom and effect are unknown.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use appropriate extinguishing media suitable for surrounding facilities.

Unsuitable extinguishing media

Unsuitable extinguishing media data is not available.

5.2 Specific hazards arising from the substance or mixture

Specific hazards arising from the substance or mixture is not available.

5.3 Advice for firefighters

Specific fire-fighting measures

Evacuate non-essential personnel to safe area.

Special protective equipment and precautions for fire-fighters

P280A-Wear protective gloves/protective clothing/eye protection/face protection.

Section 6. Accidental release measures

6.1 Personnel precautions, protective equipment and emergency procedures

Stop leak if safe to do so.

6.2 Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

6.3 Methods and materials for containment and cleaning up

Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.

Preventive measures for secondary accident

P376-Stop leak if safe to do so.

Stop leak if you can do it without risk.

Prevent entry into waterways, sewers, basements or confined areas.

6.4 Reference to other sections

Refer to section 13

Section 7. Handling and storage

7.1 Precautions for safe handling

Preventive measures

(Exposure Control for handling personnel)

P260-Do not breathe dust/fume/gas/mist/vapors/spray.

Safety Measures

P280A-Wear protective gloves/protective clothing/eye protection/face protection.

Any incompatibilities data is not available.

Advice on general occupational hygiene

P264-Wash contaminated parts thoroughly after handling.

P270-Do not eat, drink or smoke when using this product.

7.2 Storage

Conditions for safe storage

P233-Keep container tightly closed.

P235 + P410-Keep cool. Protect from sunlight.

Container and packaging materials for safe handling data is not available.

7.3 Specific end use(s)

For the relevant identified use(s)listed in Section 1 the advice mentioned in this section 7 is to be observed.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Adopted value

Adopted value in ACGIH is not available.

OSHA-PEL value is not available.

8.2 Exposure controls

Appropriate engineering controls

Do not use in areas without adequate ventilation.

Individual protection measures

Hand protection

Wear protective gloves.

Eye protection

Wear eye/face protection.

Skin and body protection

Wear protective clothing.

Section 9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical state: Liquid

Color: Colorless

Odor data is not available.

Melting point/Freezing point data is not available.

Boiling point or initial boiling point data is not available.

Boiling range data is not available.

Flammability (gases, liquids and solids) data is not available.

Flash point data is not available.

Auto-ignition temperature data is not available.

Decomposition temperature data is not available.

pH: 7.3~7.8

Kinematic viscosity data is not available.

Solubility:

Solubility in water data is not available.

Solubility in solvent data is not available.

Solubility as solvent data is not available.

n-Octanol/water partition coefficient data is not available.

Vapor pressure data is not available.

Density and/or relative density data is not available.

Relative vapor density (Air=1) data is not available.

Particle characteristics data is not available.

9.2 Other information

Other information is not available.

Section 10. Stability and Reactivity

10.1 Reactivity

Reactivity data is not available.

10.2 Chemical stability

Stable under normal storage/handling conditions.

10.3 Possibility of hazardous reactions

Possibility of hazardous reactions data is not available.

10.4 Conditions to avoid

Conditions to avoid data is not available.

10.5 Incompatible materials

Incompatible materials data is not available.

10.6 Hazardous decomposition products

Hazardous decomposition products data is not available.

Section 11. Toxicological Information

11.1 Information on toxicological effects

Acute toxicity

Acute toxicity (Oral)

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

Acute toxicity (Dermal)

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

Acute toxicity (Inhalation)

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

Acute toxicity data is not available.

Irritant properties

Skin corrosion/irritation

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

Skin corrosion/irritation data is not available.

Serious eye damage/irritation

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

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No data available.
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[Data for components of the product]

No data available.

Serious eye damage/irritation data is not available.

Sensitization

Respiratory sensitization

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

Skin sensitization

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

Allergenic and sensitizing effects data is not available.

Germ cell mutagenicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

Mutagenic effects data is not available.

Carcinogenicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

Carcinogenic effects data is not available.

Reproductive toxicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

Teratogenic effects data is not available.

Reproductive toxicity data is not available.

Specific target organ toxicity (STOT)

STOT-single exposure

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

STOT-single exposure data is not available.

STOT-repeated exposure

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

STOT-repeated exposure data is not available.

Aspiration hazard

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

Aspiration hazard data is not available.

11.2 Information on other hazards

Endocrine disrupting properties is not available.

Section 12. Ecological Information

12.1 Toxicity

Aquatic toxicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

Toxicity data is not available.

12.2 Persistence and degradability

Persistence and degradability data is not available.

12.3 Bioaccumulative potential

Bioaccumulative potential data is not available.

12.4 Mobility in soil

Mobility in soil data is not available.

12.5 Results of PBT and vPvB assessment

PBT and/or vPvB assessment data is not available.

12.6 Endocrine disrupting properties

Endocrine disrupting properties is not available.

12.7 Other adverse effects

Ozone depleting chemical data is not available.

Section 13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging

13.1 Waste treatment methods

P273-Avoid release to the environment.

P501-Dispose of contents/container in accordance with local/national regulation.

Contaminated packing

Dispose of container after using the contents completely.

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Section 14. Transport Information
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UN No., UN CLASS

14.1 UN Number or ID Number: Not regulated

14.2 UN Proper Shipping Name: Not regulated

14.3 Class or division (Transport hazard class): Not regulated

14.4 Packing group: Not regulated

ADR (European Agreement concerning the International Carriage of Dangerous Goods by Road)

14.1 UN Number or ID Number: Not regulated

14.2 UN Proper Shipping Name: Not regulated

14.3 Class or division (Transport hazard class): Not regulated

14.4 Packing group: Not regulated

ADN (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)

14.1 UN Number or ID Number: Not regulated

14.2 UN Proper Shipping Name: Not regulated

14.3 Class or division (Transport hazard class): Not regulated

14.4 Packing group: Not regulated

RID (Regulation concerning the International Carriage of Dangerous goods by Rail)

14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name: Not regulated

14.3 Class or division (Transport hazard class): Not regulated

14.4 Packing group: Not regulated

IMDG Code (International Maritime Dangerous Goods Regulations)

14.1 UN Number or ID Number: Not regulated

14.2 UN Proper Shipping Name: Not regulated

14.3 Class or division (Transport hazard class): Not regulated

14.4 Packing group: Not regulated

IATA (Dangerous Goods Regulations)

14.1 UN Number or ID Number: Not regulated

14.2 UN Proper Shipping Name: Not regulated

14.3 Class or division (Transport hazard class): Not regulated

14.4 Packing group: Not regulated

14.5 Environmental hazards

Marine pollutants (yes/no): no

14.6 Special precautions for user

Special precautions for user is not applicable.

14.7 Maritime transport in bulk according to IMO instruments

MARPOL Annex II - Noxious Liquid Substances

Non Noxious Liquid Substances; Cat. OS

Water

MARPOL Annex V - HME (Harmful to the Marine Environment)

Not applicable to Maritime transport in bulk according to IMO instruments.

Section 15. Regulatory Information

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

U.S. Toxic Substances Control Act (TSCA) Inventory

Chemicals listed in TSCA Inventory

Adenosine-5'-triphosphate; 1,3-Propanediol, 2-amino-2-(hydroxymethyl)-; Water

Superfund Amendments and Reauthorizations Act (SARA), Title III

This product contains no chemicals subjected to reporting levels established by SARA Title III, Section 313.

California proposition 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

15.2 Chemical safety assessment

No chemical safety assessment has been carried out for this product.

Section 16. Other information

GHS classification and labelling

Not classified/Classification not possible

References and sources for data

Globally Harmonized System of classification and labelling of chemicals, UN

Recommendations on the TRANSPORT OF DANGEROUS GOODS 22nd edit., 2021 UN

IMDG Code, 2020 Edition (Incorporating Amendment 40-20)

IATA Dangerous Goods Regulations (64th Edition) 2023

2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT)

2023 TLVs and BEIs. (ACGIH)

Supplier's data/information

Hazard Communication Standard - 2012 (29 CFR 1910.1200)

Chemicals safety data management system "GHS Assistant" Version 4.24

(https://www.asahi-ghs.com/)

Revision information

First edition

General Disclaimer

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.



CycLex NAMPT Colorimetric Assay Kit Ver.2

Issue date: 26/Sep/2023

Safety Data Sheet

Section 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

Product name: CycLex NAMPT Colorimetric Assay Kit Ver.2

SDS NO: CY_1251V2_1007_E-1

Component: NMNAT1
Product code: CY-1251V2

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the product: Research and Development

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Medical & Biological Laboratories (MBL) Co., Ltd. Address: 1018-1 Terasawaoka, Ina-shi, Nagano-ken 396-0002, Japan

Telephone number: +81-265-76-1777 e-mail address: sds-support@mbl.co.jp

1.4 Emergency telephone number: +81-265-76-1777 (Monday to Friday, 9 AM to 5 PM JST)

Section 2. Hazards identification

GHS classification and label elements of the product

2.1 Classification of the substance or mixture

Classification according to Hazard Communication Standard - 2012 (29 CFR 1910.1200)

Not classified/Classification not possible

2.2 Label elements

Labelling according to Hazard Communication Standard - 2012 (29 CFR 1910.1200)

No GHS label element

No Signal word

2.3 Other hazards

The product does not contain any ingredient designated as PBT and/or vPvB.

The product does not contain any ingredients designated as Endocrine disrupting properties.

Section 3. Composition/information on ingredients

Mixture/Substance selection:

3.2 Mixture

Ingredient name	Content (%)	CAS No.	ECNO	Classification according to REGULATION (EC) No.1272/2008 [CLP]
Dipotassium hydrogenphosphate	0.70	7758-11-4	231-834-5	-
potassium Phosphate Monobasic	0.14	7778-77-0	231-913-4	1
Dithiothreitol	0.02	3483-12-3	222-468-7	-
Magnesium chloride	<0.01	7786-30-3	232-094-6	1
Ethylenediaminetetraacetic acid	0.01	60-00-4	200-449-4	Eye Irrit. 2, H319
Glycerin	50.00	56-81-5	200-289-5	_
Water	49.00<	7732-18-5	231-791-2	-

Section 4. First-aid measures

General measures

P314-Get medical advice/attention if you feel unwell.

IF INHALED

P304 + P312-Call a POISON CENTER/doctor/physician if you feel unwell.

IF ON SKIN (or hair)

P302 + P352-Wash with plenty of soap and water.

IF IN EYES

P305 + P351 + P338-Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF SWALLOWED

P301 + P312-Call a POISON CENTER/doctor/physician if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Specific information on symptom and effect are unknown.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use appropriate extinguishing media suitable for surrounding facilities.

Unsuitable extinguishing media

Unsuitable extinguishing media data is not available.

5.2 Specific hazards arising from the substance or mixture

Specific hazards arising from the substance or mixture is not available.

5.3 Advice for firefighters

Specific fire-fighting measures

Evacuate non-essential personnel to safe area.

Special protective equipment and precautions for fire-fighters

P280A-Wear protective gloves/protective clothing/eye protection/face protection.

Section 6. Accidental release measures

6.1 Personnel precautions, protective equipment and emergency procedures

Stop leak if safe to do so.

6.2 Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

6.3 Methods and materials for containment and cleaning up

Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.

Preventive measures for secondary accident

P376-Stop leak if safe to do so.

Stop leak if you can do it without risk.

Prevent entry into waterways, sewers, basements or confined areas.

6.4 Reference to other sections

Refer to section 13

Section 7. Handling and storage

7.1 Precautions for safe handling

Preventive measures

(Exposure Control for handling personnel)

P260-Do not breathe dust/fume/gas/mist/vapors/spray.

Safety Measures

P280A-Wear protective gloves/protective clothing/eye protection/face protection.

Any incompatibilities data is not available.

Advice on general occupational hygiene

P264-Wash contaminated parts thoroughly after handling.

P270-Do not eat, drink or smoke when using this product.

7.2 Storage

Conditions for safe storage

P233-Keep container tightly closed.

P235 + P410-Keep cool. Protect from sunlight.

Container and packaging materials for safe handling data is not available.

7.3 Specific end use(s)

For the relevant identified use(s)listed in Section 1 the advice mentioned in this section 7 is to be observed.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Adopted value

Adopted value in ACGIH is not available.

OSHA-PEL

(Glycerin)

TWA: 15mg/m3 (Total dust)

TWA: 5mg/m3 (Respirable fraction)

NIOSH-REL

(Glycerin)

See Appendix D

8.2 Exposure controls

Appropriate engineering controls

Do not use in areas without adequate ventilation.

Individual protection measures

Hand protection

Wear protective gloves.

Eye protection

Wear eye/face protection.

Skin and body protection

Wear protective clothing.

Section 9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical state: Liquid

Color: Colorless

Odor data is not available.

Melting point/Freezing point data is not available.

Boiling point or initial boiling point data is not available.

Boiling range data is not available.

Flammability (gases, liquids and solids) data is not available.

Lower and upper explosion limit/flammability limit data is not available.

Flash point data is not available.

Auto-ignition temperature data is not available.

Decomposition temperature data is not available.

pH: 7.3~7.8

Kinematic viscosity data is not available.

Solubility:

Solubility in water data is not available.

Solubility in solvent data is not available.

Solubility as solvent data is not available.

n-Octanol/water partition coefficient data is not available.

Vapor pressure data is not available.

Density and/or relative density data is not available.

Relative vapor density (Air=1) data is not available.

Particle characteristics data is not available.

9.2 Other information

Other information is not available.

Section 10. Stability and Reactivity

10.1 Reactivity

Reactivity data is not available.

10.2 Chemical stability

Stable under normal storage/handling conditions.

10.3 Possibility of hazardous reactions

Possibility of hazardous reactions data is not available.

10.4 Conditions to avoid

Conditions to avoid data is not available.

10.5 Incompatible materials

Incompatible materials data is not available.

10.6 Hazardous decomposition products

Hazardous decomposition products data is not available.

Section 11. Toxicological Information

11.1 Information on toxicological effects

Acute toxicity

Acute toxicity (Oral)

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

Acute toxicity (Dermal)

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

Acute toxicity (Inhalation)

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

Acute toxicity data is not available.

Irritant properties

Skin corrosion/irritation

```
[Product]
       Classification not possible (Insufficient data available or no data available).
    [Product data]
       No data available.
    [Data for components of the product]
       No data available.
  Skin corrosion/irritation data is not available.
  Serious eye damage/irritation
    [Product]
       Classification not possible (Insufficient data available or no data available).
    [Product data]
       No data available.
    [Data for components of the product]
       No data available.
  Serious eye damage/irritation data is not available.
Sensitization
  Respiratory sensitization
    [Product]
       Classification not possible (Insufficient data available or no data available).
    [Product data]
       No data available.
    [Data for components of the product]
       No data available.
  Skin sensitization
    [Product]
       Classification not possible (Insufficient data available or no data available).
    [Product data]
       No data available.
    [Data for components of the product]
       No data available.
Allergenic and sensitizing effects data is not available.
Germ cell mutagenicity
    [Product]
       Classification not possible (Insufficient data available or no data available).
    [Product data]
       No data available.
    [Data for components of the product]
       No data available.
Mutagenic effects data is not available.
Carcinogenicity
    [Product]
       Classification not possible (Insufficient data available or no data available).
    [Product data]
       No data available.
    [Data for components of the product]
       No data available.
Carcinogenic effects data is not available.
Reproductive toxicity
    [Product]
       Classification not possible (Insufficient data available or no data available).
    [Product data]
       No data available.
```

[Data for components of the product]

No data available.

```
Teratogenic effects data is not available.
  Reproductive toxicity data is not available.
  Specific target organ toxicity (STOT)
    STOT-single exposure
       [Product]
         Classification not possible (Insufficient data available or no data available).
       [Product data]
         No data available.
       [Data for components of the product]
         No data available.
    STOT-single exposure data is not available.
    STOT-repeated exposure
       [Product]
         Classification not possible (Insufficient data available or no data available).
       [Product data]
         No data available.
       [Data for components of the product]
         No data available.
    STOT-repeated exposure data is not available.
  Aspiration hazard
       [Product]
         Classification not possible (Insufficient data available or no data available).
       [Product data]
         No data available.
       [Data for components of the product]
         No data available.
  Aspiration hazard data is not available.
  11.2 Information on other hazards
    Endocrine disrupting properties is not available.
Section 12. Ecological Information
  12.1 Toxicity
  Aquatic toxicity
       [Product]
         Classification not possible (Insufficient data available or no data available).
       [Product data]
         No data available.
       [Data for components of the product]
         No data available.
         Toxicity data is not available.
  Water solubility
         (potassium Phosphate Monobasic)
         22 g/100 ml (ICSC, 2005)
         (Magnesium chloride)
         54.3 g/100 ml (20°C) (ICSC, 2006)
         (Ethylenediaminetetraacetic acid)
         very poor (0.05 g/100 ml, 20°C) (ICSC, 2008)
         (Glycerin)
         miscible (ICSC, 2006)
  12.2 Persistence and degradability
       [Data for components of the product]
         (Ethylenediaminetetraacetic acid)
         BOD_Degradation: 0% (METI existing chemical safety inspections)
```

12.3 Bioaccumulative potential

[Data for components of the product]

(Ethylenediaminetetraacetic acid)

BCF=123 (Check & Review, Japan)

(Glycerin)

log Pow=-1.76 (ICSC, 2006)

12.4 Mobility in soil

Mobility in soil data is not available.

12.5 Results of PBT and vPvB assessment

PBT and/or vPvB assessment data is not available.

12.6 Endocrine disrupting properties

Endocrine disrupting properties is not available.

12.7 Other adverse effects

Ozone depleting chemical data is not available.

Section 13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging

13.1 Waste treatment methods

P273-Avoid release to the environment.

P501-Dispose of contents/container in accordance with local/national regulation.

Contaminated packing

Dispose of container after using the contents completely.

Section 14. Transport Information

UN No., UN CLASS

14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name: Not regulated

14.3 Class or division (Transport hazard class): Not regulated

14.4 Packing group: Not regulated

ADR (European Agreement concerning the International Carriage of Dangerous Goods by Road)

14.1 UN Number or ID Number: Not regulated

14.2 UN Proper Shipping Name: Not regulated

14.3 Class or division (Transport hazard class): Not regulated

14.4 Packing group: Not regulated

ADN (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)

14.1 UN Number or ID Number: Not regulated

14.2 UN Proper Shipping Name: Not regulated

14.3 Class or division (Transport hazard class): Not regulated

14.4 Packing group: Not regulated

RID (Regulation concerning the International Carriage of Dangerous goods by Rail)

14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name: Not regulated

14.3 Class or division (Transport hazard class): Not regulated

14.4 Packing group: Not regulated

IMDG Code (International Maritime Dangerous Goods Regulations)

14.1 UN Number or ID Number: Not regulated

14.2 UN Proper Shipping Name: Not regulated

14.3 Class or division (Transport hazard class): Not regulated

14.4 Packing group: Not regulated

IATA (Dangerous Goods Regulations)

14.1 UN Number or ID Number: Not regulated 14.2 UN Proper Shipping Name: Not regulated

14.3 Class or division (Transport hazard class): Not regulated

14.4 Packing group: Not regulated

14.5 Environmental hazards

Marine pollutants (yes/no): no

14.6 Special precautions for user

Special precautions for user is not applicable.

14.7 Maritime transport in bulk according to IMO instruments

MARPOL Annex II - Noxious Liquid Substances

Noxious Liquid Substances ; Cat. Z Magnesium chloride; Glycerin

Non Noxious Liquid Substances; Cat. OS

Water

MARPOL Annex V - HME (Harmful to the Marine Environment)

Not applicable to Maritime transport in bulk according to IMO instruments.

Section 15. Regulatory Information

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

U.S. Toxic Substances Control Act (TSCA) Inventory

Chemicals listed in TSCA Inventory

Glycerin; Ethylenediaminetetraacetic acid; Dithiothreitol; Water; Dipotassium hydrogenphosphate; potassium Phosphate Monobasic; Magnesium chloride

Superfund Amendments and Reauthorizations Act (SARA), Title III

This product contains no chemicals subjected to reporting levels established by SARA Title III, Section 313.

California proposition 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

15.2 Chemical safety assessment

No chemical safety assessment has been carried out for this product.

Section 16. Other information

GHS classification and labelling

Not classified/Classification not possible

Full text of Hazard categories and Hazard statements referred to only section 3

Eye Irrit. 2, H319 - Serious eye damage/eye irritation, Category 2: H319 Causes serious eye irritation

References and sources for data

Globally Harmonized System of classification and labelling of chemicals, UN

Recommendations on the TRANSPORT OF DANGEROUS GOODS 22nd edit., 2021 UN

IMDG Code, 2020 Edition (Incorporating Amendment 40-20)

IATA Dangerous Goods Regulations (64th Edition) 2023

2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT)

2023 TLVs and BEIs. (ACGIH)

Supplier's data/information

Hazard Communication Standard - 2012 (29 CFR 1910.1200)

Chemicals safety data management system "GHS Assistant" Version 4.24

(https://www.asahi-ghs.com/)

Revision information

First edition

General Disclaimer

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.



CycLex NAMPT Colorimetric Assay Kit Ver.2

Issue date: 26/Sep/2023

Safety Data Sheet

Section 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

Product name: CycLex NAMPT Colorimetric Assay Kit Ver.2

SDS NO: CY_1251V2_1008_E-1 Component: Nicotinamide Product code: CY-1251V2

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the product: Research and Development

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Medical & Biological Laboratories (MBL) Co., Ltd. Address: 1018-1 Terasawaoka, Ina-shi, Nagano-ken 396-0002, Japan

Telephone number: +81-265-76-1777 e-mail address: sds-support@mbl.co.jp

1.4 Emergency telephone number: +81-265-76-1777 (Monday to Friday, 9 AM to 5 PM JST)

Section 2. Hazards identification

GHS classification and label elements of the product

2.1 Classification of the substance or mixture

Classification according to Hazard Communication Standard - 2012 (29 CFR 1910.1200)

Not classified/Classification not possible

2.2 Label elements

Labelling according to Hazard Communication Standard - 2012 (29 CFR 1910.1200)

No GHS label element

No Signal word

2.3 Other hazards

The product does not contain any ingredient designated as PBT and/or vPvB.

The product does not contain any ingredients designated as Endocrine disrupting properties.

Section 3. Composition/information on ingredients

Mixture/Substance selection:

3.2 Mixture

Ingredient name	Content (%)	CAS No.	ECNO	Classification according to REGULATION (EC) No.1272/2008 [CLP]
Nicotinamide	0.06	98-92-0	202-713-4	-
Water	99.00<	7732-18-5	231-791-2	_

Section 4. First-aid measures

4.1 Descriptions of first-aid measures

General measures

P314-Get medical advice/attention if you feel unwell.

IF INHALED

P304 + P312-Call a POISON CENTER/doctor/physician if you feel unwell.

IF ON SKIN (or hair)

P302 + P352-Wash with plenty of soap and water.

IF IN EYES

P305 + P351 + P338-Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF SWALLOWED

P301 + P312-Call a POISON CENTER/doctor/physician if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Specific information on symptom and effect are unknown.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use appropriate extinguishing media suitable for surrounding facilities.

Unsuitable extinguishing media

Unsuitable extinguishing media data is not available.

5.2 Specific hazards arising from the substance or mixture

Specific hazards arising from the substance or mixture is not available.

5.3 Advice for firefighters

Specific fire-fighting measures

Evacuate non-essential personnel to safe area.

Special protective equipment and precautions for fire-fighters

P280A-Wear protective gloves/protective clothing/eye protection/face protection.

Section 6. Accidental release measures

6.1 Personnel precautions, protective equipment and emergency procedures

Stop leak if safe to do so.

6.2 Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

6.3 Methods and materials for containment and cleaning up

Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.

Preventive measures for secondary accident

P376-Stop leak if safe to do so.

Stop leak if you can do it without risk.

Prevent entry into waterways, sewers, basements or confined areas.

6.4 Reference to other sections

Refer to section 13

Section 7. Handling and storage

7.1 Precautions for safe handling

Preventive measures

(Exposure Control for handling personnel)

P260-Do not breathe dust/fume/gas/mist/vapors/spray.

Safety Measures

P280A-Wear protective gloves/protective clothing/eye protection/face protection.

Any incompatibilities data is not available.

Advice on general occupational hygiene

P264-Wash contaminated parts thoroughly after handling.

P270-Do not eat, drink or smoke when using this product.

7.2 Storage

Conditions for safe storage

P233-Keep container tightly closed.

P235 + P410-Keep cool. Protect from sunlight.

Container and packaging materials for safe handling data is not available.

7.3 Specific end use(s)

For the relevant identified use(s)listed in Section 1 the advice mentioned in this section 7 is to be observed.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Adopted value

Adopted value in ACGIH is not available.

OSHA-PEL value is not available.

8.2 Exposure controls

Appropriate engineering controls

Do not use in areas without adequate ventilation.

Individual protection measures

Hand protection

Wear protective gloves.

Eye protection

Wear eye/face protection.

Skin and body protection

Wear protective clothing.

Section 9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical state: Liquid

Color: Colorless

Odor data is not available.

Melting point/Freezing point data is not available.

Boiling point or initial boiling point data is not available.

Boiling range data is not available.

Flammability (gases, liquids and solids) data is not available.

Lower and upper explosion limit/flammability limit data is not available.

Flash point data is not available.

Auto-ignition temperature data is not available.

Decomposition temperature data is not available.

pH: No information

Kinematic viscosity data is not available.

Solubility:

Solubility in water data is not available.

Solubility in solvent data is not available.

Solubility as solvent data is not available.

n-Octanol/water partition coefficient data is not available.

Vapor pressure data is not available.

Density and/or relative density data is not available.

Relative vapor density (Air=1) data is not available.

Particle characteristics data is not available.

9.2 Other information

Other information is not available.

Section 10. Stability and Reactivity

10.1 Reactivity

Reactivity data is not available.

10.2 Chemical stability

Stable under normal storage/handling conditions.

10.3 Possibility of hazardous reactions

Possibility of hazardous reactions data is not available.

10.4 Conditions to avoid

Conditions to avoid data is not available.

10.5 Incompatible materials

Incompatible materials data is not available.

10.6 Hazardous decomposition products

Hazardous decomposition products data is not available.

Section 11. Toxicological Information

11.1 Information on toxicological effects

Acute toxicity

Acute toxicity (Oral)

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

Acute toxicity (Dermal)

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

Acute toxicity (Inhalation)

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

Acute toxicity data is not available.

Irritant properties

Skin corrosion/irritation

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

Skin corrosion/irritation data is not available.

Serious eye damage/irritation

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

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No data available.
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[Data for components of the product]

No data available.

Serious eye damage/irritation data is not available.

Sensitization

Respiratory sensitization

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

Skin sensitization

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

Allergenic and sensitizing effects data is not available.

Germ cell mutagenicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

Mutagenic effects data is not available.

Carcinogenicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

Carcinogenic effects data is not available.

Reproductive toxicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

Teratogenic effects data is not available.

Reproductive toxicity data is not available.

Specific target organ toxicity (STOT)

STOT-single exposure

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

STOT-single exposure data is not available.

STOT-repeated exposure

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

STOT-repeated exposure data is not available.

Aspiration hazard

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

Aspiration hazard data is not available.

11.2 Information on other hazards

Endocrine disrupting properties is not available.

Section 12. Ecological Information

12.1 Toxicity

Aquatic toxicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

Toxicity data is not available.

Water solubility

(Nicotinamide)

very good (100 g/100ml, 20°C) (ICSC, 2008)

12.2 Persistence and degradability

Persistence and degradability data is not available.

12.3 Bioaccumulative potential

[Data for components of the product]

(Nicotinamide)

log Pow=-0.38 (ICSC, 2008)

12.4 Mobility in soil

Mobility in soil data is not available.

12.5 Results of PBT and vPvB assessment

PBT and/or vPvB assessment data is not available.

12.6 Endocrine disrupting properties

Endocrine disrupting properties is not available.

12.7 Other adverse effects

Ozone depleting chemical data is not available.

Section 13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging

13.1 Waste treatment methods

P273-Avoid release to the environment.

P501-Dispose of contents/container in accordance with local/national regulation.

Contaminated packing

Dispose of container after using the contents completely.

Section 14. Transport Information

UN No., UN CLASS

14.1 UN Number or ID Number: Not regulated 14.2 UN Proper Shipping Name: Not regulated

14.3 Class or division (Transport hazard class): Not regulated

14.4 Packing group: Not regulated

ADR (European Agreement concerning the International Carriage of Dangerous Goods by Road)

14.1 UN Number or ID Number: Not regulated 14.2 UN Proper Shipping Name: Not regulated

14.3 Class or division (Transport hazard class): Not regulated

14.4 Packing group: Not regulated

ADN (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)

14.1 UN Number or ID Number : Not regulated14.2 UN Proper Shipping Name : Not regulated

14.3 Class or division (Transport hazard class): Not regulated

14.4 Packing group: Not regulated

RID (Regulation concerning the International Carriage of Dangerous goods by Rail)

14.1 UN Number or ID Number: Not regulated 14.2 UN Proper Shipping Name: Not regulated

14.3 Class or division (Transport hazard class): Not regulated

14.4 Packing group: Not regulated

IMDG Code (International Maritime Dangerous Goods Regulations)

14.1 UN Number or ID Number: Not regulated 14.2 UN Proper Shipping Name: Not regulated

14.3 Class or division (Transport hazard class): Not regulated

14.4 Packing group: Not regulated

IATA (Dangerous Goods Regulations)

14.1 UN Number or ID Number: Not regulated 14.2 UN Proper Shipping Name: Not regulated

14.3 Class or division (Transport hazard class): Not regulated

14.4 Packing group: Not regulated

14.5 Environmental hazards

Marine pollutants (yes/no): no

14.6 Special precautions for user

Special precautions for user is not applicable.

14.7 Maritime transport in bulk according to IMO instruments

MARPOL Annex II - Noxious Liquid Substances

Non Noxious Liquid Substances ; Cat. OS

Water

MARPOL Annex V - HME (Harmful to the Marine Environment)

Not applicable to Maritime transport in bulk according to IMO instruments.

Section 15. Regulatory Information

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

U.S. Toxic Substances Control Act (TSCA) Inventory
Chemicals listed in TSCA Inventory

Nicotinamide; Water

Superfund Amendments and Reauthorizations Act (SARA), Title III

This product contains no chemicals subjected to reporting levels established by SARA Title III. Section 313.

California proposition 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

15.2 Chemical safety assessment

No chemical safety assessment has been carried out for this product.

Section 16. Other information

GHS classification and labelling

Not classified/Classification not possible

References and sources for data

Globally Harmonized System of classification and labelling of chemicals, UN

Recommendations on the TRANSPORT OF DANGEROUS GOODS 22nd edit., 2021 UN

IMDG Code, 2020 Edition (Incorporating Amendment 40-20)

IATA Dangerous Goods Regulations (64th Edition) 2023

2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT)

2023 TLVs and BEIs. (ACGIH)

Supplier's data/information

Hazard Communication Standard - 2012 (29 CFR 1910.1200)

Chemicals safety data management system "GHS Assistant" Version 4.24

(https://www.asahi-ghs.com/)

Revision information

First edition

General Disclaimer

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.



CycLex NAMPT Colorimetric Assay Kit Ver.2

Issue date: 26/Sep/2023

Safety Data Sheet

Section 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

Product name: CycLex NAMPT Colorimetric Assay Kit Ver.2

SDS NO: CY_1251V2_1009_E-1

Component: PRPP

Product code:CY-1251V2

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the product: Research and Development

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Medical & Biological Laboratories (MBL) Co., Ltd. Address: 1018-1 Terasawaoka, Ina-shi, Nagano-ken 396-0002, Japan

Telephone number: +81-265-76-1777 e-mail address: sds-support@mbl.co.jp

1.4 Emergency telephone number: +81-265-76-1777 (Monday to Friday, 9 AM to 5 PM JST)

Section 2. Hazards identification

GHS classification and label elements of the product

2.1 Classification of the substance or mixture

Classification according to Hazard Communication Standard - 2012 (29 CFR 1910.1200)

Not classified/Classification not possible

2.2 Label elements

Labelling according to Hazard Communication Standard - 2012 (29 CFR 1910.1200)

No GHS label element

No Signal word

2.3 Other hazards

The product does not contain any ingredient designated as PBT and/or vPvB.

The product does not contain any ingredients designated as Endocrine disrupting properties.

Section 3. Composition/information on ingredients

Mixture/Substance selection:

3.2 Mixture

Ingredient name	Content (%)	CAS No.	ECNO	Classification according to REGULATION (EC) No.1272/2008 [CLP]
5-Phospho-alpha-D-ribosyl diphosphate sodium salt	0.50	108321-05 -7	-	-
Water	99.00<	7732-18-5	231-791-2	_

Section 4. First-aid measures

4.1 Descriptions of first-aid measures

General measures

P314-Get medical advice/attention if you feel unwell.

IF INHALED

P304 + P312-Call a POISON CENTER/doctor/physician if you feel unwell.

IF ON SKIN (or hair)

P302 + P352-Wash with plenty of soap and water.

IF IN EYES

P305 + P351 + P338-Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.

IF SWALLOWED

P301 + P312-Call a POISON CENTER/doctor/physician if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Specific information on symptom and effect are unknown.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use appropriate extinguishing media suitable for surrounding facilities.

Unsuitable extinguishing media

Unsuitable extinguishing media data is not available.

5.2 Specific hazards arising from the substance or mixture

Specific hazards arising from the substance or mixture is not available.

5.3 Advice for firefighters

Specific fire-fighting measures

Evacuate non-essential personnel to safe area.

Special protective equipment and precautions for fire-fighters

P280A-Wear protective gloves/protective clothing/eye protection/face protection.

Section 6. Accidental release measures

6.1 Personnel precautions, protective equipment and emergency procedures

Stop leak if safe to do so.

6.2 Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

6.3 Methods and materials for containment and cleaning up

Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.

Preventive measures for secondary accident

P376-Stop leak if safe to do so.

Stop leak if you can do it without risk.

Prevent entry into waterways, sewers, basements or confined areas.

6.4 Reference to other sections

Refer to section 13

Section 7. Handling and storage

7.1 Precautions for safe handling

Preventive measures

(Exposure Control for handling personnel)

P260-Do not breathe dust/fume/gas/mist/vapors/spray.

Safety Measures

P280A-Wear protective gloves/protective clothing/eye protection/face protection.

Any incompatibilities data is not available.

Advice on general occupational hygiene

P264-Wash contaminated parts thoroughly after handling.

P270-Do not eat, drink or smoke when using this product.

7.2 Storage

Conditions for safe storage

P233-Keep container tightly closed.

P235 + P410-Keep cool. Protect from sunlight.

Container and packaging materials for safe handling data is not available.

7.3 Specific end use(s)

For the relevant identified use(s)listed in Section 1 the advice mentioned in this section 7 is to be observed.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Adopted value

Adopted value in ACGIH is not available.

OSHA-PEL value is not available.

8.2 Exposure controls

Appropriate engineering controls

Do not use in areas without adequate ventilation.

Individual protection measures

Hand protection

Wear protective gloves.

Eye protection

Wear eye/face protection.

Skin and body protection

Wear protective clothing.

Section 9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical state: Liquid

Color: Colorless

Odor data is not available.

Melting point/Freezing point data is not available.

Boiling point or initial boiling point data is not available.

Boiling range data is not available.

Flammability (gases, liquids and solids) data is not available.

Lower and upper explosion limit/flammability limit data is not available.

Flash point data is not available.

Auto-ignition temperature data is not available.

Decomposition temperature data is not available.

pH: No information

Kinematic viscosity data is not available.

Solubility:

Solubility in water data is not available.

Solubility in solvent data is not available.

Solubility as solvent data is not available.

n-Octanol/water partition coefficient data is not available.

Vapor pressure data is not available.

Density and/or relative density data is not available.

Relative vapor density (Air=1) data is not available.

Particle characteristics data is not available.

9.2 Other information

Other information is not available.

Section 10. Stability and Reactivity

10.1 Reactivity

Reactivity data is not available.

10.2 Chemical stability

Stable under normal storage/handling conditions.

10.3 Possibility of hazardous reactions

Possibility of hazardous reactions data is not available.

10.4 Conditions to avoid

Conditions to avoid data is not available.

10.5 Incompatible materials

Incompatible materials data is not available.

10.6 Hazardous decomposition products

Hazardous decomposition products data is not available.

Section 11. Toxicological Information

11.1 Information on toxicological effects

Acute toxicity

Acute toxicity (Oral)

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

Acute toxicity (Dermal)

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

Acute toxicity (Inhalation)

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

Acute toxicity data is not available.

Irritant properties

Skin corrosion/irritation

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

Skin corrosion/irritation data is not available.

Serious eye damage/irritation

[Product]

Classification not possible (Insufficient data available or no data available).

No data available.

```
[Product data]
       No data available.
    [Data for components of the product]
       No data available.
  Serious eye damage/irritation data is not available.
Sensitization
  Respiratory sensitization
    [Product]
       Classification not possible (Insufficient data available or no data available).
    [Product data]
       No data available.
    [Data for components of the product]
       No data available.
  Skin sensitization
    [Product]
       Classification not possible (Insufficient data available or no data available).
    [Product data]
       No data available.
    [Data for components of the product]
       No data available.
Allergenic and sensitizing effects data is not available.
Germ cell mutagenicity
    [Product]
       Classification not possible (Insufficient data available or no data available).
    [Product data]
       No data available.
    [Data for components of the product]
       No data available.
Mutagenic effects data is not available.
Carcinogenicity
    [Product]
       Classification not possible (Insufficient data available or no data available).
    [Product data]
       No data available.
    [Data for components of the product]
       No data available.
Carcinogenic effects data is not available.
Reproductive toxicity
    [Product]
       Classification not possible (Insufficient data available or no data available).
    [Product data]
       No data available.
    [Data for components of the product]
       No data available.
Teratogenic effects data is not available.
Reproductive toxicity data is not available.
Specific target organ toxicity (STOT)
  STOT-single exposure
    [Product]
       Classification not possible (Insufficient data available or no data available).
    [Product data]
       No data available.
    [Data for components of the product]
```

STOT-single exposure data is not available.

STOT-repeated exposure

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

STOT-repeated exposure data is not available.

Aspiration hazard

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

Aspiration hazard data is not available.

11.2 Information on other hazards

Endocrine disrupting properties is not available.

Section 12. Ecological Information

12.1 Toxicity

Aquatic toxicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

Toxicity data is not available.

12.2 Persistence and degradability

Persistence and degradability data is not available.

12.3 Bioaccumulative potential

Bioaccumulative potential data is not available.

12.4 Mobility in soil

Mobility in soil data is not available.

12.5 Results of PBT and vPvB assessment

PBT and/or vPvB assessment data is not available.

12.6 Endocrine disrupting properties

Endocrine disrupting properties is not available.

12.7 Other adverse effects

Ozone depleting chemical data is not available.

Section 13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging

13.1 Waste treatment methods

P273-Avoid release to the environment.

P501-Dispose of contents/container in accordance with local/national regulation.

Contaminated packing

Dispose of container after using the contents completely.

Section 14. Transport Information

UN No., UN CLASS

14.1 UN Number or ID Number: Not regulated 14.2 UN Proper Shipping Name: Not regulated

14.3 Class or division (Transport hazard class): Not regulated

14.4 Packing group: Not regulated

ADR (European Agreement concerning the International Carriage of Dangerous Goods by Road)

14.1 UN Number or ID Number : Not regulated14.2 UN Proper Shipping Name : Not regulated

14.3 Class or division (Transport hazard class): Not regulated

14.4 Packing group: Not regulated

ADN (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)

14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name: Not regulated

14.3 Class or division (Transport hazard class): Not regulated

14.4 Packing group: Not regulated

RID (Regulation concerning the International Carriage of Dangerous goods by Rail)

14.1 UN Number or ID Number: Not regulated 14.2 UN Proper Shipping Name: Not regulated

14.3 Class or division (Transport hazard class): Not regulated

14.4 Packing group: Not regulated

IMDG Code (International Maritime Dangerous Goods Regulations)

14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name: Not regulated

14.3 Class or division (Transport hazard class): Not regulated

14.4 Packing group: Not regulated

IATA (Dangerous Goods Regulations)

14.1 UN Number or ID Number: Not regulated 14.2 UN Proper Shipping Name: Not regulated

14.3 Class or division (Transport hazard class): Not regulated

14.4 Packing group: Not regulated

14.5 Environmental hazards

Marine pollutants (yes/no): no

14.6 Special precautions for user

Special precautions for user is not applicable.

14.7 Maritime transport in bulk according to IMO instruments

MARPOL Annex II - Noxious Liquid Substances

Non Noxious Liquid Substances; Cat. OS

Water

MARPOL Annex V - HME (Harmful to the Marine Environment)

Not applicable to Maritime transport in bulk according to IMO instruments.

Section 15. Regulatory Information

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

U.S. Toxic Substances Control Act (TSCA) Inventory

Chemicals listed in TSCA Inventory

Water

Superfund Amendments and Reauthorizations Act (SARA), Title III

This product contains no chemicals subjected to reporting levels established by SARA Title III, Section 313.

California proposition 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

15.2 Chemical safety assessment

No chemical safety assessment has been carried out for this product.

Section 16. Other information

GHS classification and labelling

Not classified/Classification not possible

References and sources for data

Globally Harmonized System of classification and labelling of chemicals, UN

Recommendations on the TRANSPORT OF DANGEROUS GOODS 22nd edit., 2021 UN

IMDG Code, 2020 Edition (Incorporating Amendment 40-20)

IATA Dangerous Goods Regulations (64th Edition) 2023

2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT)

2023 TLVs and BEIs. (ACGIH)

Supplier's data/information

Hazard Communication Standard - 2012 (29 CFR 1910.1200)

Chemicals safety data management system "GHS Assistant" Version 4.24

(https://www.asahi-ghs.com/)

Revision information

First edition

General Disclaimer

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.



CycLex NAMPT Colorimetric Assay Kit Ver.2

Issue date: 26/Sep/2023

Safety Data Sheet

Section 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

Product name: CycLex NAMPT Colorimetric Assay Kit Ver.2

SDS NO: CY_1251V2_1010_E-1

Component: NAMPT Product code: CY-1251V2

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the product: Research and Development

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Medical & Biological Laboratories (MBL) Co., Ltd. Address: 1018-1 Terasawaoka, Ina-shi, Nagano-ken 396-0002, Japan

Telephone number: +81-265-76-1777 e-mail address: sds-support@mbl.co.jp

1.4 Emergency telephone number: +81-265-76-1777 (Monday to Friday, 9 AM to 5 PM JST)

Section 2. Hazards identification

GHS classification and label elements of the product

2.1 Classification of the substance or mixture

Classification according to Hazard Communication Standard - 2012 (29 CFR 1910.1200)

Not classified/Classification not possible

2.2 Label elements

Labelling according to Hazard Communication Standard - 2012 (29 CFR 1910.1200)

No GHS label element

No Signal word

2.3 Other hazards

The product does not contain any ingredient designated as PBT and/or vPvB.

The product does not contain any ingredients designated as Endocrine disrupting properties.

Section 3. Composition/information on ingredients

Mixture/Substance selection:

3.2 Mixture

Ingredient name	Content (%)	CAS No.	ECNO	Classification according to REGULATION (EC) No.1272/2008 [CLP]
HEPES	0.47	7365-45-9	230-907-9	_
Sodium hydroxide	0.07	1310-73-2	215–185–5	Skin Corr. 1A, H314 [SCL's, M-Factors, ATE, Component notes] Skin Corr. 1A; H314: C >= 5 %;Skin Corr. 1B; H314: 2 % =< C < 5 %;Skin Irrit. 2; H315: 0,5 % =< C < 2 %;Eye Irrit. 2; H319: 0,5 % =< C < 2 %
Sodium chloride	0.29	7647-14-5	231-598-3	1
Dithiothreitol	0.02	3483-12-3	222-468-7	_
Glycerin	50.00	56-81-5	200-289-5	-

Water 49.00<	7732-18-5 231-791-2	-
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Section 4. First-aid measures

4.1 Descriptions of first-aid measures

General measures

P314-Get medical advice/attention if you feel unwell.

IF INHALED

P304 + P312-Call a POISON CENTER/doctor/physician if you feel unwell.

IF ON SKIN (or hair)

P302 + P352-Wash with plenty of soap and water.

IF IN EYES

P305 + P351 + P338-Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.

IF SWALLOWED

P301 + P312-Call a POISON CENTER/doctor/physician if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Specific information on symptom and effect are unknown.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use appropriate extinguishing media suitable for surrounding facilities.

Unsuitable extinguishing media

Unsuitable extinguishing media data is not available.

5.2 Specific hazards arising from the substance or mixture

Specific hazards arising from the substance or mixture is not available.

5.3 Advice for firefighters

Specific fire-fighting measures

Evacuate non-essential personnel to safe area.

Special protective equipment and precautions for fire-fighters

P280A-Wear protective gloves/protective clothing/eye protection/face protection.

Section 6. Accidental release measures

6.1 Personnel precautions, protective equipment and emergency procedures

Stop leak if safe to do so.

6.2 Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

6.3 Methods and materials for containment and cleaning up

Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.

Preventive measures for secondary accident

P376-Stop leak if safe to do so.

Stop leak if you can do it without risk.

Prevent entry into waterways, sewers, basements or confined areas.

6.4 Reference to other sections

Refer to section 13

7.1 Precautions for safe handling

Preventive measures

(Exposure Control for handling personnel)

P260-Do not breathe dust/fume/gas/mist/vapors/spray.

Safety Measures

P280A-Wear protective gloves/protective clothing/eye protection/face protection.

Any incompatibilities data is not available.

Advice on general occupational hygiene

P264-Wash contaminated parts thoroughly after handling.

P270-Do not eat, drink or smoke when using this product.

7.2 Storage

Conditions for safe storage

P233-Keep container tightly closed.

P235 + P410-Keep cool. Protect from sunlight.

7.3 Specific end use(s)

For the relevant identified use(s)listed in Section 1 the advice mentioned in this section

7 is to be observed.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Adopted value

(Sodium hydroxide)

ACGIH(1992) STEL: C 2mg/m3 (URT, eye & skin irr)

OSHA-PEL

(Glycerin)

TWA: 15mg/m3 (Total dust)

TWA: 5mg/m3 (Respirable fraction)

(Sodium hydroxide)

TWA: 2mg/m3

NIOSH-REL

(Glycerin)

See Appendix D

(Sodium hydroxide)

STEL: C 2mg/m3

8.2 Exposure controls

Appropriate engineering controls

Do not use in areas without adequate ventilation.

Individual protection measures

Hand protection

Wear protective gloves.

Eye protection

Wear eye/face protection.

Skin and body protection

Wear protective clothing.

Section 9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical state: Liquid

Color: Colorless

Odor data is not available.

Melting point/Freezing point data is not available.

Boiling point or initial boiling point data is not available.

Boiling range data is not available.

Flammability (gases, liquids and solids) data is not available.

Lower and upper explosion limit/flammability limit data is not available.

Flash point data is not available.

Auto-ignition temperature data is not available.

Decomposition temperature data is not available.

pH: 7.3~7.8

Kinematic viscosity data is not available.

Solubility:

Solubility in water data is not available.

Solubility in solvent data is not available.

Solubility as solvent data is not available.

n-Octanol/water partition coefficient data is not available.

Vapor pressure data is not available.

Density and/or relative density data is not available.

Relative vapor density (Air=1) data is not available.

Particle characteristics data is not available.

9.2 Other information

Other information is not available.

Section 10. Stability and Reactivity

10.1 Reactivity

Reactivity data is not available.

10.2 Chemical stability

Stable under normal storage/handling conditions.

10.3 Possibility of hazardous reactions

Possibility of hazardous reactions data is not available.

10.4 Conditions to avoid

Conditions to avoid data is not available.

10.5 Incompatible materials

Incompatible materials data is not available.

10.6 Hazardous decomposition products

Hazardous decomposition products data is not available.

Section 11. Toxicological Information

11.1 Information on toxicological effects

Acute toxicity

Acute toxicity (Oral)

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

Acute toxicity (Dermal)

[Product]

Classification not possible (Insufficient data available or no data available).

[Product data]

No data available.

[Data for components of the product]

No data available.

Acute toxicity (Inhalation)

```
[Product]
       Classification not possible (Insufficient data available or no data available).
     [Product data]
       No data available.
     [Data for components of the product]
       No data available.
Acute toxicity data is not available.
Irritant properties
  Skin corrosion/irritation
     [Product]
       Classification not possible (Insufficient data available or no data available).
     [Product data]
       No data available.
     [Data for components of the product]
       No data available.
  Skin corrosion/irritation data is not available.
  Serious eye damage/irritation
     [Product]
       Classification not possible (Insufficient data available or no data available).
     [Product data]
       No data available.
     [Data for components of the product]
       No data available.
  Serious eye damage/irritation data is not available.
Sensitization
  Respiratory sensitization
     [Product]
       Classification not possible (Insufficient data available or no data available).
     [Product data]
       No data available.
     [Data for components of the product]
       No data available.
  Skin sensitization
     [Product]
       Classification not possible (Insufficient data available or no data available).
     [Product data]
       No data available.
     [Data for components of the product]
       No data available.
Allergenic and sensitizing effects data is not available.
Germ cell mutagenicity
     [Product]
       Classification not possible (Insufficient data available or no data available).
     [Product data]
       No data available.
     [Data for components of the product]
       No data available.
Mutagenic effects data is not available.
Carcinogenicity
     [Product]
       Classification not possible (Insufficient data available or no data available).
     [Product data]
       No data available.
```

[Data for components of the product]

Water solubility

(Sodium hydroxide)

(Glycerin)

109 g/100 ml (20°C) (ICSC, 2010)

```
No data available.
  Carcinogenic effects data is not available.
  Reproductive toxicity
       [Product]
         Classification not possible (Insufficient data available or no data available).
       [Product data]
         No data available.
       [Data for components of the product]
         No data available.
  Teratogenic effects data is not available.
  Reproductive toxicity data is not available.
  Specific target organ toxicity (STOT)
    STOT-single exposure
       [Product]
         Classification not possible (Insufficient data available or no data available).
       [Product data]
         No data available.
       [Data for components of the product]
         No data available.
    STOT-single exposure data is not available.
    STOT-repeated exposure
       [Product]
         Classification not possible (Insufficient data available or no data available).
       [Product data]
         No data available.
       [Data for components of the product]
         No data available.
    STOT-repeated exposure data is not available.
  Aspiration hazard
       [Product]
         Classification not possible (Insufficient data available or no data available).
       [Product data]
         No data available.
       [Data for components of the product]
         No data available.
  Aspiration hazard data is not available.
  11.2 Information on other hazards
    Endocrine disrupting properties is not available.
Section 12. Ecological Information
  12.1 Toxicity
  Aquatic toxicity
       [Product]
         Classification not possible (Insufficient data available or no data available).
       [Product data]
         No data available.
       [Data for components of the product]
         No data available.
         Toxicity data is not available.
```

miscible (ICSC, 2006)

12.2 Persistence and degradability

Persistence and degradability data is not available.

12.3 Bioaccumulative potential

[Data for components of the product]

(Glycerin)

log Pow=-1.76 (ICSC, 2006)

12.4 Mobility in soil

Mobility in soil data is not available.

12.5 Results of PBT and vPvB assessment

PBT and/or vPvB assessment data is not available.

12.6 Endocrine disrupting properties

Endocrine disrupting properties is not available.

12.7 Other adverse effects

Ozone depleting chemical data is not available.

Section 13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging

13.1 Waste treatment methods

P273-Avoid release to the environment.

P501-Dispose of contents/container in accordance with local/national regulation.

Contaminated packing

Dispose of container after using the contents completely.

Section 14. Transport Information

UN No., UN CLASS

14.1 UN Number or ID Number: Not regulated

14.2 UN Proper Shipping Name: Not regulated

14.3 Class or division (Transport hazard class): Not regulated

14.4 Packing group: Not regulated

ADR (European Agreement concerning the International Carriage of Dangerous Goods by Road)

14.1 UN Number or ID Number: Not regulated

14.2 UN Proper Shipping Name: Not regulated

14.3 Class or division (Transport hazard class): Not regulated

14.4 Packing group: Not regulated

ADN (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)

14.1 UN Number or ID Number: Not regulated

14.2 UN Proper Shipping Name: Not regulated

14.3 Class or division (Transport hazard class): Not regulated

14.4 Packing group: Not regulated

RID (Regulation concerning the International Carriage of Dangerous goods by Rail)

14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name: Not regulated

14.3 Class or division (Transport hazard class): Not regulated

14.4 Packing group: Not regulated

IMDG Code (International Maritime Dangerous Goods Regulations)

14.1 UN Number or ID Number: Not regulated

14.2 UN Proper Shipping Name: Not regulated

14.3 Class or division (Transport hazard class): Not regulated

14.4 Packing group: Not regulated

IATA (Dangerous Goods Regulations)

14.1 UN Number or ID Number: Not regulated 14.2 UN Proper Shipping Name: Not regulated

14.3 Class or division (Transport hazard class): Not regulated

14.4 Packing group: Not regulated

14.5 Environmental hazards

Marine pollutants (yes/no): no

14.6 Special precautions for user

Special precautions for user is not applicable.

14.7 Maritime transport in bulk according to IMO instruments

MARPOL Annex II - Noxious Liquid Substances

Noxious Liquid Substances; Cat. Y

Sodium hydroxide

Noxious Liquid Substances; Cat. Z

Glycerin

Noxious Liquid Substances; Cat. Z equiv.

Sodium chloride

Non Noxious Liquid Substances; Cat. OS

Water

MARPOL Annex V - HME (Harmful to the Marine Environment)

Not applicable to Maritime transport in bulk according to IMO instruments.

Section 15. Regulatory Information

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

U.S. Toxic Substances Control Act (TSCA) Inventory

Chemicals listed in TSCA Inventory

Glycerin; Sodium hydroxide; Dithiothreitol; HEPES; Sodium chloride; Water

Superfund Amendments and Reauthorizations Act (SARA), Title III

This product contains no chemicals subjected to reporting levels established by SARA Title III, Section 313.

California proposition 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

15.2 Chemical safety assessment

No chemical safety assessment has been carried out for this product.

Section 16. Other information

GHS classification and labelling

Not classified/Classification not possible

Full text of Hazard categories and Hazard statements referred to only section 3

Skin Corr. 1A, H314 - Skin corrosion/irritation, Category 1A: H314 Causes severe skin burns and eye damage

Skin Corr. 1B, H314 - Skin corrosion/irritation, Category 1B: H314 Causes severe skin burns and eye damage

Skin Irrit. 2, H315 - Skin corrosion/irritation, Category 2: H315 Causes skin irritation

Eye Irrit. 2, H319 - Serious eye damage/eye irritation, Category 2: H319 Causes serious eye irritation

References and sources for data

Globally Harmonized System of classification and labelling of chemicals, UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 22nd edit., 2021 UN IMDG Code, 2020 Edition (Incorporating Amendment 40–20)

IATA Dangerous Goods Regulations (64th Edition) 2023

2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT)

2023 TLVs and BEIs. (ACGIH)

Supplier's data/information

Hazard Communication Standard - 2012 (29 CFR 1910.1200)

Chemicals safety data management system "GHS Assistant" Version 4.24

(https://www.asahi-ghs.com/)

Abbreviations and acronyms

C - Ceiling limit; irr - irritation; URT - upper respiratory tract

Revision information

First edition

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This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.

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