CycLex® SIRT3 Deacetylase Fluorometric Assay Kit Ver.2

Issue date: 14/May/2026

Safety Data Sheet

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

1.1 Product identifier:

Product name: CycLex® SIRT3 Deacetylase Fluorometric Assay Kit Ver.2

SDS NO：CY_1153V2_1001_E-1

Component：#1 SIRT3 Assay Bufer

Product code:CY-1153V2

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

1.2 Recommended use of the chemical and restrictions on use

Relevant identified uses: Recommended uses: Research and Development

Uses advised against: Restrictions on uses: Ask for the judgment of an expert when using for purposes other than recommended uses.

1.3 Details of the supplier of the safety data sheet

Supplier: Medical & Biological Laboratories Co., Ltd.

Address: 1018-1 Terasawaoka, Ina-shi, Nagano-ken 396-0002, Japan

Division: SDS Support

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

2.1 Classification of the substance or mixture

Classification according to the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not classified/Classification not possible

2.2 Label elements

Labelling according to the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Hazard pictogram: Not applicable

Signal word: Not applicable

2.3 Other hazards

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

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

Section 3. Composition/information on ingredients

Substance/mixture:

3.2 Mixture

Ingredient name	Content (%)	CAS No.	EC No.	Classification according to REGULATION (EC) No.1272/2008 [CLP]
1,3-Propanediol, 2-amino-2-(hydroxymethyl)-	6.10	77-86-1	201-064-4	-
Hydrochloric acid	<0.05	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]

Dithiothreitol	0.08	3483-12-3	222-468-7	-
Glycerin	10.00	56-81-5	200-289-5	-
Water	80.00<	7732-18-5	-	-

Components contributing to the hazard

The product does not contain any ingredients listed in REACH SVHC candidate list.

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-IF INHALED: Call a POISON CENTER/doctor if you feel unwell.

IF ON SKIN

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

IF IN EYES

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

IF SWALLOWED

P301 + P312-IF SWALLOWED: Call a POISON CENTER/doctor 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.

5.3 Advice for firefighters

Special extinguishing method

Evacuate non-essential personnel to safe area.

Special protective equipment and precautions for fire-fighters

P280-Wear protective gloves/protective clothing/eye protection/face protection.

Section 6. Accidental release measures

6.1 Personal 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, etc.), 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
Engineering measures
(Measures to prevent operator exposure)
P260-Do not breathe dust/fume/gas/mist/vapors/spray.
Advice on safe handling
P280-Wear protective gloves/protective clothing/eye protection/face protection.
Avoidance of contact data is not available.
Advice on general occupational hygiene
P264-Wash hands thoroughly after handling.
P270-Do not eat, drink or smoke when using this product.
7.2 Conditions for safe storage, including any incompatibilities
Conditions for safe storage
P233-Keep container tightly closed.
P401-Store in accordance with local/regional/national/international regulations regulation.
Safe packaging material
P234-Keep only in original packaging.
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
Occupational exposure limit values
ACGIH
(Hydrochloric acid)
Ceiling: 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
(Glycerin)
TWA: 15mg/m3 (Total dust)
TWA: 5mg/m3 (Respirable fraction)
(Hydrochloric acid)
STEL: C 5ppm, 7mg/m3
NIOSH-REL
(Glycerin)
See Appendix D
(Hydrochloric acid)
STEL: C 5ppm
Derived No-Effect Level (DNEL)
No DNELs available.
Predicted No-Effect Concentrations (PNEC)
No PNECs available.
8.2 Exposure controls
Appropriate engineering controls
Do not use in areas without adequate ventilation.
Washing facilities should be available.

Individual protection measures, such as personal protective equipment
Hand protection
Wear protective gloves.
Eye/face 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.
Odor threshold data is not available.
Melting point/Freezing point data is not available.
Boiling point, initial boiling point, or boiling range data is not available.
Flammability data is not available.
Lower and upper explosion limit/flammability limit data is not available.
Lower and upper explosion 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: 8..6-9.0
Kinematic viscosity data is not available.
Solubility:
Solubility in water data is not available.
Solubility in solvent data is not available.
Partition coefficient n-octanol/water 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)
[Company proprietary data]
(Dithiothreitol)
Rat LD50＝400mg/kg (supplier data)
Skin corrosion/irritation
[Table 3 of Annex VI to the CLP Regulations]
(Hydrochloric acid)
Category 1B
Serious eye damage/irritation data is not available.
Allergenic and sensitizing effects data is not available.
Mutagenic effects data is not available.
Carcinogenicity
[IARC]
(Hydrochloric acid)
Group 3 : Not classifiable as to its carcinogenicity to humans
[ACGIH]
(Hydrochloric acid)
A4: Not Classifiable as a Human Carcinogen
Teratogenic effects data is not available.
Reproductive toxicity data is not available.
Specific target organ toxicity – single exposure
[Table 3 of Annex VI to the CLP Regulations]
(Hydrochloric acid)
Category 3 (Respiratory tract irritation)
[Company proprietary data]
(Dithiothreitol)
Category 3 (Respiratory tract irritation)(ECHA CL Inventory, Access on October 2023)
Specific target organ toxicity – repeated exposure data is not 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
Toxicity data is not available.
Water solubility
(Hydrochloric acid)
67 g/100 mL (30℃) (source: ICSC, 2016)
(Glycerin)
miscible (source: ICSC, 2006)
12.2 Persistence and degradability
Persistence and degradability data is not available.
12.3 Bioaccumulative potential
(Hydrochloric acid)
log Pow: 0.25 (source: ICSC, 2016)
(Glycerin)
log Pow: −1.76 (source: 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

PMT and/or vPvM assessment data is not available.

Ozone depleting chemical data is not available.

Section 13. Disposal considerations

13.1 Waste treatment methods

Waste from residues

P273-Avoid release to the environment.

P501-Dispose of contents/container in accordance with local/regional/national/international regulations.

Contaminated packing

Dispose of container after using the contents completely.

Section 14. Transport Information

UNRTDG

14.1 UN number : 14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name : Not regulated

14.3 Transport hazard class(es) : 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 Transport hazard class(es) : 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 Transport hazard class(es) : 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 Transport hazard class(es) : Not regulated

14.4 Packing group : Not regulated

IMDG Code (International Maritime Dangerous Goods Regulations)

14.1 UN number : 14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name : Not regulated

14.3 Transport hazard class(es) : Not regulated

14.4 Packing group : Not regulated

IATA (Dangerous Goods Regulations)

14.1 UN number : 14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name : Not regulated

14.3 Transport hazard class(es) : Not regulated

14.4 Packing group : Not regulated

14.5 Environmental hazards

Marine pollutants (yes/no) : no

Environmentally hazardous substance/mixture (yes/no) : no

14.6 Special precautions for user

No information available.

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)
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

The product does not contain any ingredients listed in REACH SVHC candidate list.

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

Chemicals listed in TSCA Inventory

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

15.2 Chemical safety assessment

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

Section 16. Other information

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 23rd edit., 2023 UN
IMDG Code, 2024 Edition (Incorporating Amendment 42-24)
IATA Dangerous Goods Regulations (67th Edition) 2026
2024 EMERGENCY RESPONSE GUIDEBOOK (US DOT)
2026 TLVs and BEIs. (ACGIH)
Supplier's data/information
OSHA Hazard Communication Standard – 2024 (29 CFR 1910.1200)

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.

Safety Data Sheet

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

1.1 Product identifier:

Product name: CycLex® SIRT3 Deacetylase Fluorometric Assay Kit Ver.2

SDS NO：CY_1153V2_2001_E-1

Component：#2 Fluoro-Substrate Peptide

Product code:CY-1153V2

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

1.2 Recommended use of the chemical and restrictions on use

Relevant identified uses: Recommended uses: Research and Development

Uses advised against: Restrictions on uses: Ask for the judgment of an expert when using for purposes other than recommended uses.

1.3 Details of the supplier of the safety data sheet

Supplier: Medical & Biological Laboratories Co., Ltd.

Address: 1018-1 Terasawaoka, Ina-shi, Nagano-ken 396-0002, Japan

Division: SDS Support

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

2.1 Classification of the substance or mixture

Classification according to the OSHA Hazard Communication Standard (29 CFR 1910.1200)

HEALTH HAZARDS

Specific target organ toxicity – single exposure: Category 2 (respiratory system)

(Note) GHS classification without description: Not classified/Classification not possible

2.2 Label elements

Labelling according to the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Hazard pictograms:

Signal word: Warning

Hazard statements

H371-May cause damage to organs (respiratory system)

Precautionary statements

Prevention

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

P264-Wash hands thoroughly after handling.

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

Response

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

Storage

P405-Store locked up.

Disposal

P501-Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

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

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

Section 3. Composition/information on ingredients

Substance/mixture:

3.2 Mixture

Ingredient name	Content (%)	CAS No.	EC No.	Classification according to REGULATION (EC) No.1272/2008 [CLP]
Dimethyl sulfoxide	18.00	67-68-5	200-664-3	-
Water	80.00<	7732-18-5	-	-

Components contributing to the hazard

The product does not contain any ingredients listed in REACH SVHC candidate list.

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.

IF INHALED

P304 + P312-IF INHALED: Call a POISON CENTER/doctor if you feel unwell.

IF ON SKIN

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

IF IN EYES

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

IF SWALLOWED

P301 + P312-IF SWALLOWED: Call a POISON CENTER/doctor 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.

5.3 Advice for firefighters

Special extinguishing method

Evacuate non-essential personnel to safe area.

Special protective equipment and precautions for fire-fighters

P280-Wear protective gloves/protective clothing/eye protection/face protection.

Section 6. Accidental release measures

6.1 Personal 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, etc.), 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

Engineering measures

(Measures to prevent operator exposure)

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

Advice on safe handling

P280-Wear protective gloves/protective clothing/eye protection/face protection.

Avoidance of contact data is not available.

Advice on general occupational hygiene

P264-Wash hands thoroughly after handling.

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

7.2 Conditions for safe storage, including any incompatibilities

Conditions for safe storage

P233-Keep container tightly closed.

P401-Store in accordance with local/regional/national/international regulations regulation.

P405-Store locked up.

Safe packaging material

P234-Keep only in original packaging.

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

Occupational exposure limit values

ACGIH

Not established

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

Not established

Derived No-Effect Level (DNEL)

No DNELs available.

Predicted No-Effect Concentrations (PNEC)

No PNECs available.

8.2 Exposure controls

Appropriate engineering controls

Do not use in areas without adequate ventilation.

Washing facilities should be available.

Individual protection measures, such as personal protective equipment

Hand protection

Wear protective gloves.

Eye/face 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: Pale yellow
Odor data is not available.
Odor threshold data is not available.
Melting point/Freezing point data is not available.
Boiling point, initial boiling point, or boiling range data is not available.
Flammability data is not available.
Lower and upper explosion limit/flammability limit data is not available.
Lower and upper explosion 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 data is not available.
Kinematic viscosity data is not available.
Solubility:
Solubility in water data is not available.
Solubility in solvent data is not available.
Partition coefficient n-octanol/water 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 data is not available.
Skin corrosion/irritation data is not available.
Serious eye damage/irritation data is not available.

Allergenic and sensitizing effects data is not available.
Mutagenic effects data is not available.
Carcinogenic effects data is not available.
Teratogenic effects data is not available.
Reproductive toxicity data is not available.
Specific target organ toxicity – single exposure data is not available.
Specific target organ toxicity – repeated exposure data is not 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
Toxicity data is not available.
Water solubility
(Dimethyl sulfoxide)
miscible (source: ICSC, 2000)
12.2 Persistence and degradability
Persistence and degradability data is not available.
12.3 Bioaccumulative potential
(Dimethyl sulfoxide)
log Pow: −1.35 (calculated value) (source: 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
PMT and/or vPvM assessment data is not available.
Ozone depleting chemical data is not available.

Section 13. Disposal considerations
13.1 Waste treatment methods
Waste from residues
P273−Avoid release to the environment.
P501−Dispose of contents/container in accordance with local/regional/national/international regulations.
Contaminated packing
Dispose of container after using the contents completely.

Section 14. Transport Information
UNRTDG
14.1 UN number : 14.1 UN Number or ID Number : Not regulated
14.2 UN Proper Shipping Name : Not regulated
14.3 Transport hazard class(es) : 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 Transport hazard class(es) : 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 Transport hazard class(es) : 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 Transport hazard class(es) : Not regulated
14.4 Packing group : Not regulated

IMDG Code (International Maritime Dangerous Goods Regulations)

14.1 UN number : 14.1 UN Number or ID Number : Not regulated
14.2 UN Proper Shipping Name : Not regulated
14.3 Transport hazard class(es) : Not regulated
14.4 Packing group : Not regulated

IATA (Dangerous Goods Regulations)

14.1 UN number : 14.1 UN Number or ID Number : Not regulated
14.2 UN Proper Shipping Name : Not regulated
14.3 Transport hazard class(es) : Not regulated
14.4 Packing group : Not regulated

14.5 Environmental hazards

Marine pollutants (yes/no) : no
Environmentally hazardous substance/mixture (yes/no) : no

14.6 Special precautions for user

No information available.

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

The product does not contain any ingredients listed in REACH SVHC candidate list.

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

Chemicals listed in TSCA Inventory

Dimethyl sulfoxide; Water

15.2 Chemical safety assessment

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

Section 16. Other information

GHS classification and labelling

H371–Specific target organ toxicity – single exposure, Category 2: H371 May cause damage to organs

References and sources for data

Globally Harmonized System of classification and labelling of chemicals, UN
Recommendations on the TRANSPORT OF DANGEROUS GOODS 23rd edit., 2023 UN
IMDG Code, 2024 Edition (Incorporating Amendment 42–24)

IATA Dangerous Goods Regulations (67th Edition) 2026
2024 EMERGENCY RESPONSE GUIDEBOOK (US DOT)
2026 TLVs and BEIs. (ACGIH)
Supplier's data/information
OSHA Hazard Communication Standard – 2024 (29 CFR 1910.1200)

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.

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Issue date: 14/May/2026

Safety Data Sheet

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

1.1 Product identifier:

Product name: CycLex® SIRT3 Deacetylase Fluorometric Assay Kit Ver.2
SDS NO：CY_1153V2_3001_E-1
Component：#3 Fluoro-Deacetylated Peptide
Product code:CY-1153V2

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

1.2 Recommended use of the chemical and restrictions on use

Relevant identified uses: Recommended uses: Research and Development
Uses advised against: Restrictions on uses: Ask for the judgment of an expert when using for purposes other than recommended uses.

1.3 Details of the supplier of the safety data sheet

Supplier: Medical & Biological Laboratories Co., Ltd.
Address: 1018-1 Terasawaoka, Ina-shi, Nagano-ken 396-0002, Japan
Division: SDS Support
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

2.1 Classification of the substance or mixture

Classification according to the OSHA Hazard Communication Standard (29 CFR 1910.1200)
HEALTH HAZARDS
Specific target organ toxicity – single exposure: Category 2 (respiratory system)
(Note) GHS classification without description: Not classified/Classification not possible

2.2 Label elements

Labelling according to the OSHA Hazard Communication Standard (29 CFR 1910.1200)
Hazard pictograms:

Signal word: Warning
Hazard statements
H371-May cause damage to organs (respiratory system)
Precautionary statements
Prevention
P260-Do not breathe dust/fume/gas/mist/vapors/spray.
P264-Wash hands thoroughly after handling.
P270-Do not eat, drink or smoke when using this product.
Response
P308 + P311-IF exposed or concerned: Call a POISON CENTER/doctor.
Storage
P405-Store locked up.
Disposal
P501-Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

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

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

Section 3. Composition/information on ingredients

Substance/mixture:

3.2 Mixture

Ingredient name	Content (%)	CAS No.	EC No.	Classification according to REGULATION (EC) No.1272/2008 [CLP]
Dimethyl sulfoxide	18.00	67-68-5	200-664-3	-
Water	80.00<	7732-18-5	-	-

Components contributing to the hazard

The product does not contain any ingredients listed in REACH SVHC candidate list.

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.

IF INHALED

P304 + P312-IF INHALED: Call a POISON CENTER/doctor if you feel unwell.

IF ON SKIN

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

IF IN EYES

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

IF SWALLOWED

P301 + P312-IF SWALLOWED: Call a POISON CENTER/doctor 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.

5.3 Advice for firefighters

Special extinguishing method

Evacuate non-essential personnel to safe area.

Special protective equipment and precautions for fire-fighters

P280-Wear protective gloves/protective clothing/eye protection/face protection.

Section 6. Accidental release measures

6.1 Personal 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, etc.), 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

Engineering measures

(Measures to prevent operator exposure)

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

Advice on safe handling

P280-Wear protective gloves/protective clothing/eye protection/face protection.

Avoidance of contact data is not available.

Advice on general occupational hygiene

P264-Wash hands thoroughly after handling.

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

7.2 Conditions for safe storage, including any incompatibilities

Conditions for safe storage

P233-Keep container tightly closed.

P401-Store in accordance with local/regional/national/international regulations regulation.

P405-Store locked up.

Safe packaging material

P234-Keep only in original packaging.

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

Occupational exposure limit values

ACGIH

Not established

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

Not established

Derived No-Effect Level (DNEL)

No DNELs available.

Predicted No-Effect Concentrations (PNEC)

No PNECs available.

8.2 Exposure controls

Appropriate engineering controls

Do not use in areas without adequate ventilation.

Washing facilities should be available.

Individual protection measures, such as personal protective equipment

Hand protection

Wear protective gloves.

Eye/face 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.
Odor threshold data is not available.
Melting point/Freezing point data is not available.
Boiling point, initial boiling point, or boiling range data is not available.
Flammability data is not available.
Lower and upper explosion limit/flammability limit data is not available.
Lower and upper explosion 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 data is not available.
Kinematic viscosity data is not available.
Solubility:
Solubility in water data is not available.
Solubility in solvent data is not available.
Partition coefficient n-octanol/water 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 data is not available.
Skin corrosion/irritation data is not available.
Serious eye damage/irritation data is not available.

Allergenic and sensitizing effects data is not available.
Mutagenic effects data is not available.
Carcinogenic effects data is not available.
Teratogenic effects data is not available.
Reproductive toxicity data is not available.
Specific target organ toxicity – single exposure data is not available.
Specific target organ toxicity – repeated exposure data is not 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
Toxicity data is not available.
Water solubility
(Dimethyl sulfoxide)
miscible (source: ICSC, 2000)
12.2 Persistence and degradability
Persistence and degradability data is not available.
12.3 Bioaccumulative potential
(Dimethyl sulfoxide)
log Pow: −1.35 (calculated value) (source: 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
PMT and/or vPvM assessment data is not available.
Ozone depleting chemical data is not available.

Section 13. Disposal considerations
13.1 Waste treatment methods
Waste from residues
P273−Avoid release to the environment.
P501−Dispose of contents/container in accordance with local/regional/national/international regulations.
Contaminated packing
Dispose of container after using the contents completely.

Section 14. Transport Information
UNRTDG
14.1 UN number : 14.1 UN Number or ID Number : Not regulated
14.2 UN Proper Shipping Name : Not regulated
14.3 Transport hazard class(es) : 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 Transport hazard class(es) : 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 Transport hazard class(es) : 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 Transport hazard class(es) : Not regulated
14.4 Packing group : Not regulated

IMDG Code (International Maritime Dangerous Goods Regulations)

14.1 UN number : 14.1 UN Number or ID Number : Not regulated
14.2 UN Proper Shipping Name : Not regulated
14.3 Transport hazard class(es) : Not regulated
14.4 Packing group : Not regulated

IATA (Dangerous Goods Regulations)

14.1 UN number : 14.1 UN Number or ID Number : Not regulated
14.2 UN Proper Shipping Name : Not regulated
14.3 Transport hazard class(es) : Not regulated
14.4 Packing group : Not regulated

14.5 Environmental hazards

Marine pollutants (yes/no) : no
Environmentally hazardous substance/mixture (yes/no) : no

14.6 Special precautions for user

No information available.

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

The product does not contain any ingredients listed in REACH SVHC candidate list.

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

Chemicals listed in TSCA Inventory

Dimethyl sulfoxide; Water

15.2 Chemical safety assessment

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

Section 16. Other information

GHS classification and labelling

H371–Specific target organ toxicity – single exposure, Category 2: H371 May cause damage to organs

References and sources for data

Globally Harmonized System of classification and labelling of chemicals, UN
Recommendations on the TRANSPORT OF DANGEROUS GOODS 23rd edit., 2023 UN
IMDG Code, 2024 Edition (Incorporating Amendment 42–24)

IATA Dangerous Goods Regulations (67th Edition) 2026
2024 EMERGENCY RESPONSE GUIDEBOOK (US DOT)
2026 TLVs and BEIs. (ACGIH)
Supplier's data/information
OSHA Hazard Communication Standard – 2024 (29 CFR 1910.1200)

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.

Safety Data Sheet

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

1.1 Product identifier:

Product name: CycLex® SIRT3 Deacetylase Fluorometric Assay Kit Ver.2

SDS NO：CY_1153V2_4001_E-1

Component：#4 NAD

Product code:CY-1153V2

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

1.2 Recommended use of the chemical and restrictions on use

Relevant identified uses: Recommended uses: Research and Development

Uses advised against: Restrictions on uses: Ask for the judgment of an expert when using for purposes other than recommended uses.

1.3 Details of the supplier of the safety data sheet

Supplier: Medical & Biological Laboratories Co., Ltd.

Address: 1018-1 Terasawaoka, Ina-shi, Nagano-ken 396-0002, Japan

Division: SDS Support

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

2.1 Classification of the substance or mixture

Classification according to the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not classified/Classification not possible

2.2 Label elements

Labelling according to the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Hazard pictogram: Not applicable

Signal word: Not applicable

2.3 Other hazards

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

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

Section 3. Composition/information on ingredients

Substance/mixture:

3.2 Mixture

Ingredient name	Content (%)	CAS No.	EC No.	Classification according to REGULATION (EC) No.1272/2008 [CLP]
beta-Nicotinamide Adenine Dinucleotide	0.13	53-84-9	200-184-4	-
Water	95.00<	7732-18-5	-	-

Components contributing to the hazard

The product does not contain any ingredients listed in REACH SVHC candidate list.

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-IF INHALED: Call a POISON CENTER/doctor if you feel unwell.
IF ON SKIN
P302 + P352-IF ON SKIN: Wash with plenty of water.
IF IN EYES
P305 + P351 + P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF SWALLOWED
P301 + P312-IF SWALLOWED: Call a POISON CENTER/doctor 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.

5.3 Advice for firefighters
Special extinguishing method
Evacuate non-essential personnel to safe area.
Special protective equipment and precautions for fire-fighters
P280-Wear protective gloves/protective clothing/eye protection/face protection.

Section 6. Accidental release measures

6.1 Personal 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, etc.), 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
Engineering measures
(Measures to prevent operator exposure)
P260-Do not breathe dust/fume/gas/mist/vapors/spray.
Advice on safe handling
P280-Wear protective gloves/protective clothing/eye protection/face protection.
Avoidance of contact data is not available.

Advice on general occupational hygiene

P264–Wash hands thoroughly after handling.

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

7.2 Conditions for safe storage, including any incompatibilities

Conditions for safe storage

P233–Keep container tightly closed.

P401–Store in accordance with local/regional/national/international regulations regulation.

Safe packaging material

P234–Keep only in original packaging.

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

Occupational exposure limit values

ACGIH

Not established

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

Not established

Derived No-Effect Level (DNEL)

No DNELs available.

Predicted No-Effect Concentrations (PNEC)

No PNECs available.

8.2 Exposure controls

Appropriate engineering controls

Do not use in areas without adequate ventilation.

Washing facilities should be available.

Individual protection measures, such as personal protective equipment

Hand protection

Wear protective gloves.

Eye/face 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.

Odor threshold data is not available.

Melting point/Freezing point data is not available.

Boiling point, initial boiling point, or boiling range data is not available.

Flammability data is not available.

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

Lower and upper explosion 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 data is not available.

Kinematic viscosity data is not available.
Solubility:
Solubility in water data is not available.
Solubility in solvent data is not available.
Partition coefficient n-octanol/water 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 data is not available.
Skin corrosion/irritation data is not available.
Serious eye damage/irritation data is not available.
Allergenic and sensitizing effects data is not available.
Mutagenic effects data is not available.
Carcinogenic effects data is not available.
Teratogenic effects data is not available.
Reproductive toxicity data is not available.
Specific target organ toxicity – single exposure data is not available.
Specific target organ toxicity – repeated exposure data is not 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

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
PMT and/or vPvM assessment data is not available.
Ozone depleting chemical data is not available.

Section 13. Disposal considerations
13.1 Waste treatment methods
Waste from residues
P273−Avoid release to the environment.
P501−Dispose of contents/container in accordance with local/regional/national/international regulations.
Contaminated packing
Dispose of container after using the contents completely.

Section 14. Transport Information
UNRTDG
14.1 UN number : 14.1 UN Number or ID Number : Not regulated
14.2 UN Proper Shipping Name : Not regulated
14.3 Transport hazard class(es) : 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 Transport hazard class(es) : 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 Transport hazard class(es) : 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 Transport hazard class(es) : Not regulated
14.4 Packing group : Not regulated
IMDG Code (International Maritime Dangerous Goods Regulations)
14.1 UN number : 14.1 UN Number or ID Number : Not regulated
14.2 UN Proper Shipping Name : Not regulated
14.3 Transport hazard class(es) : Not regulated
14.4 Packing group : Not regulated
IATA (Dangerous Goods Regulations)
14.1 UN number : 14.1 UN Number or ID Number : Not regulated
14.2 UN Proper Shipping Name : Not regulated
14.3 Transport hazard class(es) : Not regulated
14.4 Packing group : Not regulated
14.5 Environmental hazards
Marine pollutants (yes/no) : no
Environmentally hazardous substance/mixture (yes/no) : no

14.6 Special precautions for user

No information available.

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

The product does not contain any ingredients listed in REACH SVHC candidate list.

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

Chemicals listed in TSCA Inventory

beta-Nicotinamide Adenine Dinucleotide; Water

15.2 Chemical safety assessment

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

Section 16. Other information

References and sources for data

Globally Harmonized System of classification and labelling of chemicals, UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 23rd edit., 2023 UN
IMDG Code, 2024 Edition (Incorporating Amendment 42–24)
IATA Dangerous Goods Regulations (67th Edition) 2026
2024 EMERGENCY RESPONSE GUIDEBOOK (US DOT)
2026 TLVs and BEIs. (ACGIH)
Supplier's data/information
OSHA Hazard Communication Standard – 2024 (29 CFR 1910.1200)

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.

Safety Data Sheet

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

1.1 Product identifier:

Product name: CycLex® SIRT3 Deacetylase Fluorometric Assay Kit Ver.2

SDS NO：CY_1153V2_5001_E-1

Component：#5. Developer

Product code:CY-1153V2

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

1.2 Recommended use of the chemical and restrictions on use

Relevant identified uses: Recommended uses: Research and Development

Uses advised against: Restrictions on uses: Ask for the judgment of an expert when using for purposes other than recommended uses.

1.3 Details of the supplier of the safety data sheet

Supplier: Medical & Biological Laboratories Co., Ltd.

Address: 1018-1 Terasawaoka, Ina-shi, Nagano-ken 396-0002, Japan

Division: SDS Support

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

2.1 Classification of the substance or mixture

Classification according to the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not classified/Classification not possible

2.2 Label elements

Labelling according to the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Hazard pictogram: Not applicable

Signal word: Not applicable

2.3 Other hazards

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

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

Section 3. Composition/information on ingredients

Substance/mixture:

3.2 Mixture

Ingredient name	Content (%)	CAS No.	EC No.	Classification according to REGULATION (EC) No.1272/2008 [CLP]
1,3-Propanediol, 2-amino-2-(hydroxymethyl)-	0.24	77-86-1	201-064-4	-
Hydrochloric acid	0.04	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]

Ethylenediaminetetraacetic acid	0.03	60-00-4	200-449-4	Eye Irrit. 2, H319
Dithiothreitol	0.02	3483-12-3	222-468-7	-
Water	95.00<	7732-18-5	-	-

Components contributing to the hazard

The product does not contain any ingredients listed in REACH SVHC candidate list.

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-IF INHALED: Call a POISON CENTER/doctor if you feel unwell.

IF ON SKIN

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

IF IN EYES

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

IF SWALLOWED

P301 + P312-IF SWALLOWED: Call a POISON CENTER/doctor 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.

5.3 Advice for firefighters

Special extinguishing method

Evacuate non-essential personnel to safe area.

Special protective equipment and precautions for fire-fighters

P280-Wear protective gloves/protective clothing/eye protection/face protection.

Section 6. Accidental release measures

6.1 Personal 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, etc.), 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
Engineering measures
(Measures to prevent operator exposure)
P260-Do not breathe dust/fume/gas/mist/vapors/spray.
Advice on safe handling
P280-Wear protective gloves/protective clothing/eye protection/face protection.
Avoidance of contact data is not available.
Advice on general occupational hygiene
P264-Wash hands thoroughly after handling.
P270-Do not eat, drink or smoke when using this product.
7.2 Conditions for safe storage, including any incompatibilities
Conditions for safe storage
P233-Keep container tightly closed.
P401-Store in accordance with local/regional/national/international regulations regulation.
Safe packaging material
P234-Keep only in original packaging.
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
Occupational exposure limit values
ACGIH
(Hydrochloric acid)
Ceiling: 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
Derived No-Effect Level (DNEL)
No DNELs available.
Predicted No-Effect Concentrations (PNEC)
No PNECs available.
8.2 Exposure controls
Appropriate engineering controls
Do not use in areas without adequate ventilation.
Washing facilities should be available.
Individual protection measures, such as personal protective equipment
Hand protection
Wear protective gloves.
Eye/face 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: Clear
Odor data is not available.
Odor threshold data is not available.
Melting point/Freezing point data is not available.
Boiling point, initial boiling point, or boiling range data is not available.
Flammability data is not available.
Lower and upper explosion limit/flammability limit data is not available.
Lower and upper explosion 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: 7.8-8.2
Kinematic viscosity data is not available.
Solubility:
Solubility in water data is not available.
Solubility in solvent data is not available.
Partition coefficient n-octanol/water 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)
[Company proprietary data]
(Dithiothreitol)
Rat LD50＝400mg/kg (supplier data)

Skin corrosion/irritation
[Table 3 of Annex VI to the CLP Regulations]
(Hydrochloric acid)
Category 1B
Serious eye damage/irritation
[Table 3 of Annex VI to the CLP Regulations]
(Ethylenediaminetetraacetic acid)
Category 2
Allergenic and sensitizing effects data is not available.
Mutagenic effects data is not available.
Carcinogenicity
[IARC]
(Hydrochloric acid)
Group 3 : Not classifiable as to its carcinogenicity to humans
[ACGIH]
(Hydrochloric acid)
A4: Not Classifiable as a Human Carcinogen
Teratogenic effects data is not available.
Reproductive toxicity data is not available.
Specific target organ toxicity – single exposure
[Table 3 of Annex VI to the CLP Regulations]
(Hydrochloric acid)
Category 3 (Respiratory tract irritation)
[Company proprietary data]
(Dithiothreitol)
Category 3 (Respiratory tract irritation)(ECHA CL Inventory, Access on October 2023)
Specific target organ toxicity – repeated exposure data is not 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
Toxicity data is not available.
Water solubility
(Hydrochloric acid)
67 g/100 mL (30℃) (source: ICSC, 2016)
(Ethylenediaminetetraacetic acid)
0.05 g/100 mL (20℃) (source: ICSC, 2008)
12.2 Persistence and degradability
(Ethylenediaminetetraacetic acid)
Not rapidly degradable (Degradation rate: 0% (by BOD)) (source: NITE)
12.3 Bioaccumulative potential
(Hydrochloric acid)
log Pow: 0.25 (source: ICSC, 2016)
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
PMT and/or vPvM assessment data is not available.

Ozone depleting chemical data is not available.

Section 13. Disposal considerations

13.1 Waste treatment methods

Waste from residues

P273−Avoid release to the environment.

P501−Dispose of contents/container in accordance with local/regional/national/international regulations.

Contaminated packing

Dispose of container after using the contents completely.

Section 14. Transport Information

UNRTDG

14.1 UN number : 14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name : Not regulated

14.3 Transport hazard class(es) : 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 Transport hazard class(es) : 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 Transport hazard class(es) : 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 Transport hazard class(es) : Not regulated

14.4 Packing group : Not regulated

IMDG Code (International Maritime Dangerous Goods Regulations)

14.1 UN number : 14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name : Not regulated

14.3 Transport hazard class(es) : Not regulated

14.4 Packing group : Not regulated

IATA (Dangerous Goods Regulations)

14.1 UN number : 14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name : Not regulated

14.3 Transport hazard class(es) : Not regulated

14.4 Packing group : Not regulated

14.5 Environmental hazards

Marine pollutants (yes/no) : no

Environmentally hazardous substance/mixture (yes/no) : no

14.6 Special precautions for user

No information available.

14.7 Maritime transport in bulk according to IMO instruments

MARPOL Annex II − Noxious Liquid Substances

Noxious Liquid Substances ; Cat. Z

Hydrochloric acid

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

The product does not contain any ingredients listed in REACH SVHC candidate list.

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

Chemicals listed in TSCA Inventory

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

15.2 Chemical safety assessment

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

Section 16. Other information

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 23rd edit., 2023 UN
IMDG Code, 2024 Edition (Incorporating Amendment 42-24)
IATA Dangerous Goods Regulations (67th Edition) 2026
2024 EMERGENCY RESPONSE GUIDEBOOK (US DOT)
2026 TLVs and BEIs. (ACGIH)
Supplier's data/information
OSHA Hazard Communication Standard – 2024 (29 CFR 1910.1200)

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.

Safety Data Sheet

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

1.1 Product identifier:

Product name: CycLex® SIRT3 Deacetylase Fluorometric Assay Kit Ver.2

SDS NO：CY_1153V2_6001_E-1

Component：#6 Recombinant SIRT3

Product code:CY-1153V2

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

1.2 Recommended use of the chemical and restrictions on use

Relevant identified uses: Recommended uses: Research and Development

Uses advised against: Restrictions on uses: Ask for the judgment of an expert when using for purposes other than recommended uses.

1.3 Details of the supplier of the safety data sheet

Supplier: Medical & Biological Laboratories Co., Ltd.

Address: 1018-1 Terasawaoka, Ina-shi, Nagano-ken 396-0002, Japan

Division: SDS Support

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

2.1 Classification of the substance or mixture

Classification according to the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not classified/Classification not possible

2.2 Label elements

Labelling according to the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Hazard pictogram: Not applicable

Signal word: Not applicable

2.3 Other hazards

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

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

Section 3. Composition/information on ingredients

Substance/mixture:

3.2 Mixture

Ingredient name	Content (%)	CAS No.	EC No.	Classification according to REGULATION (EC) No.1272/2008 [CLP]
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 %

Ethylenediaminetetraacetic acid	0.01	60-00-4	200-449-4	Eye Irrit. 2, H319
Dithiothreitol	0.15	3483-12-3	222-468-7	-
Glycerin	50.00	56-81-5	200-289-5	-
Albumin, Bovine	0.20	9048-46-8	232-936-2	-
Water	45.00<	7732-18-5	-	-

Components contributing to the hazard

The product does not contain any ingredients listed in REACH SVHC candidate list.

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-IF INHALED: Call a POISON CENTER/doctor if you feel unwell.

IF ON SKIN

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

IF IN EYES

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

IF SWALLOWED

P301 + P312-IF SWALLOWED: Call a POISON CENTER/doctor 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.

5.3 Advice for firefighters

Special extinguishing method

Evacuate non-essential personnel to safe area.

Special protective equipment and precautions for fire-fighters

P280-Wear protective gloves/protective clothing/eye protection/face protection.

Section 6. Accidental release measures

6.1 Personal 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, etc.), 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
Engineering measures
(Measures to prevent operator exposure)
P260-Do not breathe dust/fume/gas/mist/vapors/spray.
Advice on safe handling
P280-Wear protective gloves/protective clothing/eye protection/face protection.
Avoidance of contact data is not available.
Advice on general occupational hygiene
P264-Wash hands thoroughly after handling.
P270-Do not eat, drink or smoke when using this product.
7.2 Conditions for safe storage, including any incompatibilities
Conditions for safe storage
P233-Keep container tightly closed.
P401-Store in accordance with local/regional/national/international regulations regulation.
Safe packaging material
P234-Keep only in original packaging.
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
Occupational exposure limit values
ACGIH
(Potassium hydroxide)
Ceiling: 2mg/m3 (URT, eye & skin irr)
EU Occupational exposure limit values (Workplace Exposure limits) compliant to relevant EU Directive through 91/332/EEC to 2019/1831/EU
Not established
OSHA-PEL
(Glycerin)
TWA: 15mg/m3 (Total dust)
TWA: 5mg/m3 (Respirable fraction)
NIOSH-REL
(Glycerin)
See Appendix D
Derived No-Effect Level (DNEL)
No DNELs available.
Predicted No-Effect Concentrations (PNEC)
No PNECs available.
8.2 Exposure controls
Appropriate engineering controls
Do not use in areas without adequate ventilation.
Washing facilities should be available.
Individual protection measures, such as personal protective equipment
Hand protection
Wear protective gloves.
Eye/face 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.
Odor threshold data is not available.
Melting point/Freezing point data is not available.
Boiling point, initial boiling point, or boiling range data is not available.
Flammability data is not available.
Lower and upper explosion limit/flammability limit data is not available.
Lower and upper explosion 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: 7.3-7.7
Kinematic viscosity data is not available.
Solubility:
Solubility in water data is not available.
Solubility in solvent data is not available.
Partition coefficient n-octanol/water 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)
[Table 3 of Annex VI to the CLP Regulations]
(Potassium hydroxide)

Category 4
[Company proprietary data]
(Dithiothreitol)
Rat LD50＝400mg/kg (supplier data)
Skin corrosion/irritation
[Table 3 of Annex VI to the CLP Regulations]
(Potassium hydroxide)
Category 1A
Serious eye damage/irritation
[Table 3 of Annex VI to the CLP Regulations]
(Ethylenediaminetetraacetic acid)
Category 2
Allergenic and sensitizing effects data is not available.
Mutagenic effects data is not available.
Carcinogenic effects data is not available.
Teratogenic effects data is not available.
Reproductive toxicity data is not available.
Specific target organ toxicity – single exposure
[Company proprietary data]
(Dithiothreitol)
Category 3 (Respiratory tract irritation)(ECHA CL Inventory, Access on October 2023)
Specific target organ toxicity – repeated exposure data is not 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
Toxicity data is not available.
Water solubility
(Potassium hydroxide)
110 g/100 mL (25℃) (source: ICSC, 2010)
(Ethylenediaminetetraacetic acid)
0.05 g/100 mL (20℃) (source: ICSC, 2008)
(Glycerin)
miscible (source: ICSC, 2006)
12.2 Persistence and degradability
(Ethylenediaminetetraacetic acid)
Not rapidly degradable (Degradation rate: 0% (by BOD)) (source: NITE)
12.3 Bioaccumulative potential
(Glycerin)
log Pow: −1.76 (source: 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
PMT and/or vPvM assessment data is not available.
Ozone depleting chemical data is not available.

Section 13. Disposal considerations

13.1 Waste treatment methods

Waste from residues

P273−Avoid release to the environment.

P501−Dispose of contents/container in accordance with local/regional/national/international regulations.

Contaminated packing

Dispose of container after using the contents completely.

Section 14. Transport Information

UNRTDG

14.1 UN number : 14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name : Not regulated

14.3 Transport hazard class(es) : 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 Transport hazard class(es) : 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 Transport hazard class(es) : 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 Transport hazard class(es) : Not regulated

14.4 Packing group : Not regulated

IMDG Code (International Maritime Dangerous Goods Regulations)

14.1 UN number : 14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name : Not regulated

14.3 Transport hazard class(es) : Not regulated

14.4 Packing group : Not regulated

IATA (Dangerous Goods Regulations)

14.1 UN number : 14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name : Not regulated

14.3 Transport hazard class(es) : Not regulated

14.4 Packing group : Not regulated

14.5 Environmental hazards

Marine pollutants (yes/no) : no

Environmentally hazardous substance/mixture (yes/no) : no

14.6 Special precautions for user

No information available.

14.7 Maritime transport in bulk according to IMO instruments

MARPOL Annex II − Noxious Liquid Substances

Noxious Liquid Substances ; Cat. Y

Potassium hydroxide

Noxious Liquid Substances ; Cat. Z

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

The product does not contain any ingredients listed in REACH SVHC candidate list.

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

Chemicals listed in TSCA Inventory

Glycerin; Ethylenediaminetetraacetic acid; Dithiothreitol; Potassium hydroxide; HEPES; Water; Albumin, Bovine

15.2 Chemical safety assessment

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

Section 16. Other information

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 23rd edit., 2023 UN
IMDG Code, 2024 Edition (Incorporating Amendment 42–24)
IATA Dangerous Goods Regulations (67th Edition) 2026
2024 EMERGENCY RESPONSE GUIDEBOOK (US DOT)
2026 TLVs and BEIs. (ACGIH)
Supplier's data/information
OSHA Hazard Communication Standard – 2024 (29 CFR 1910.1200)

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.

Safety Data Sheet

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

1.1 Product identifier:

Product name: CycLex® SIRT3 Deacetylase Fluorometric Assay Kit Ver.2

SDS NO：CY_1153V2_7001_E-1

Component：#7 Stop Solution

Product code:CY-1153V2

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

1.2 Recommended use of the chemical and restrictions on use

Relevant identified uses: Recommended uses: Research and Development

Uses advised against: Restrictions on uses: Ask for the judgment of an expert when using for purposes other than recommended uses.

1.3 Details of the supplier of the safety data sheet

Supplier: Medical & Biological Laboratories Co., Ltd.

Address: 1018-1 Terasawaoka, Ina-shi, Nagano-ken 396-0002, Japan

Division: SDS Support

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

2.1 Classification of the substance or mixture

Classification according to the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not classified/Classification not possible

2.2 Label elements

Labelling according to the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Hazard pictogram: Not applicable

Signal word: Not applicable

2.3 Other hazards

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

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

Section 3. Composition/information on ingredients

Substance/mixture:

3.2 Mixture

Ingredient name	Content (%)	CAS No.	EC No.	Classification according to REGULATION (EC) No.1272/2008 [CLP]
4-(2-Aminoethyl)benzenesulfonyl Fluoride Hydrochloride	<0.01	30827-99-7	-	-
Water	95.00<	7732-18-5	-	-

Components contributing to the hazard

The product does not contain any ingredients listed in REACH SVHC candidate list.

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–IF INHALED: Call a POISON CENTER/doctor if you feel unwell.

IF ON SKIN

P302 + P352–IF ON SKIN: Wash with plenty of water.

IF IN EYES

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

IF SWALLOWED

P301 + P312–IF SWALLOWED: Call a POISON CENTER/doctor 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.

5.3 Advice for firefighters

Special extinguishing method

Evacuate non–essential personnel to safe area.

Special protective equipment and precautions for fire–fighters

P280–Wear protective gloves/protective clothing/eye protection/face protection.

Section 6. Accidental release measures

6.1 Personal 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, etc.), 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

Engineering measures

(Measures to prevent operator exposure)

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

Advice on safe handling

P280–Wear protective gloves/protective clothing/eye protection/face protection.

Avoidance of contact data is not available.

Advice on general occupational hygiene

P264-Wash hands thoroughly after handling.
P270-Do not eat, drink or smoke when using this product.

7.2 Conditions for safe storage, including any incompatibilities

Conditions for safe storage

P233-Keep container tightly closed.
P401-Store in accordance with local/regional/national/international regulations regulation.

Safe packaging material

P234-Keep only in original packaging.

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

Occupational exposure limit values

ACGIH

Not established

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

Not established

Derived No-Effect Level (DNEL)

No DNELs available.

Predicted No-Effect Concentrations (PNEC)

No PNECs available.

8.2 Exposure controls

Appropriate engineering controls

Do not use in areas without adequate ventilation.
Washing facilities should be available.

Individual protection measures, such as personal protective equipment

Hand protection

Wear protective gloves.

Eye/face 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.
Odor threshold data is not available.
Melting point/Freezing point data is not available.
Boiling point, initial boiling point, or boiling range data is not available.
Flammability data is not available.
Lower and upper explosion limit/flammability limit data is not available.
Lower and upper explosion 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 data is not available.
Kinematic viscosity data is not available.

Solubility:
Solubility in water data is not available.
Solubility in solvent data is not available.
Partition coefficient n-octanol/water 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 data is not available.
Skin corrosion/irritation data is not available.
Serious eye damage/irritation data is not available.
Allergenic and sensitizing effects data is not available.
Mutagenic effects data is not available.
Carcinogenic effects data is not available.
Teratogenic effects data is not available.
Reproductive toxicity data is not available.
Specific target organ toxicity – single exposure data is not available.
Specific target organ toxicity – repeated exposure data is not 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
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

PMT and/or vPvM assessment data is not available.

Ozone depleting chemical data is not available.

Section 13. Disposal considerations

13.1 Waste treatment methods

Waste from residues

P273−Avoid release to the environment.

P501−Dispose of contents/container in accordance with local/regional/national/international regulations.

Contaminated packing

Dispose of container after using the contents completely.

Section 14. Transport Information

UNRTDG

14.1 UN number : 14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name : Not regulated

14.3 Transport hazard class(es) : 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 Transport hazard class(es) : 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 Transport hazard class(es) : 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 Transport hazard class(es) : Not regulated

14.4 Packing group : Not regulated

IMDG Code (International Maritime Dangerous Goods Regulations)

14.1 UN number : 14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name : Not regulated

14.3 Transport hazard class(es) : Not regulated

14.4 Packing group : Not regulated

IATA (Dangerous Goods Regulations)

14.1 UN number : 14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name : Not regulated

14.3 Transport hazard class(es) : Not regulated

14.4 Packing group : Not regulated

14.5 Environmental hazards

Marine pollutants (yes/no) : no

Environmentally hazardous substance/mixture (yes/no) : no

14.6 Special precautions for user

No information available.

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

The product does not contain any ingredients listed in REACH SVHC candidate list.

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

Chemicals listed in TSCA Inventory

Water

15.2 Chemical safety assessment

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

Section 16. Other information

References and sources for data

Globally Harmonized System of classification and labelling of chemicals, UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 23rd edit., 2023 UN
IMDG Code, 2024 Edition (Incorporating Amendment 42-24)
IATA Dangerous Goods Regulations (67th Edition) 2026
2024 EMERGENCY RESPONSE GUIDEBOOK (US DOT)
2026 TLVs and BEIs. (ACGIH)
Supplier's data/information
OSHA Hazard Communication Standard – 2024 (29 CFR 1910.1200)

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.