Ab-Match Universal Kit

Issue date: 18/Nov/2025

Safety Data Sheet

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

1.1 Product identifier:

Product name: Ab-Match Universal Kit

SDS NO：5310_5001_E-1

Component：Wash Concentrate

Product code:5310

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

Relevant identified uses of the product: Research and Development

Uses advised against: 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

GHS classification and label elements of the product

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)

No GHS label element

No Signal word

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

Mixture/Substance selection:

3.2 Mixture

Ingredient name	Content (%)	CAS No.	EC No.	Classification according to REGULATION (EC) No.1272/2008 [CLP]
Polysorbate 20	<2.8	9005-64-5	500-018-3	-
Water	<77.0	7732-18-5	231-791-2	-

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/physician if you feel unwell.

IF ON SKIN (or hair)

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

IF IN EYES

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

IF SWALLOWED

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

4.2 Most important symptoms and effects, both acute and delayed

Specific information on symptom and effect are unknown.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use appropriate extinguishing media suitable for surrounding facilities.

Unsuitable extinguishing media

Unsuitable extinguishing media data is not available.

5.3 Advice for firefighters

Specific fire-fighting measures

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 Personnel precautions, protective equipment and emergency procedures

Stop leak if safe to do so.

6.2 Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

6.3 Methods and materials for containment and cleaning up

Absorb spill with inert material (dry sand, earth, 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

Preventive measures

(Exposure Control for handling personnel)

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

Safety Measures

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

Any incompatibilities data is not available.

Advice on general occupational hygiene

P264-Wash contaminated parts thoroughly after handling.

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

7.2 Storage

Conditions for safe storage

P233-Keep container tightly closed.

P235 + P410-Keep cool. Protect from sunlight.

P401-Store in accordance with local/national regulation.

Container and packaging materials for safe handling

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

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

Hand protection

Wear protective gloves.

Eye protection

Wear eye/face protection.

Skin and body protection

Wear protective clothing.

Section 9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical state: Liquid

Color: Colorless

Odor data is not available.

Odor threshold data is not available.

Melting point/Freezing point data is not available.

Boiling point or initial boiling point data is not available.

Boiling range data is not available.

Flammability data is not available.

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

Flash point data is not available.

Auto-ignition temperature data is not available.

Decomposition temperature data is not available.

pH: 6.4

Kinematic viscosity data is not available.

Solubility:
Solubility in water: Soluble
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.

Irritant properties

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 (STOT)

STOT-single exposure data is not available.
STOT-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

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

13.1 Waste treatment methods

P273-Avoid release to the environment.

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

Contaminated packing

Dispose of container after using the contents completely.

Section 14. Transport Information

UN No., UN CLASS

14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name : Not regulated

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

14.4 Packing group : Not regulated

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

14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name : Not regulated

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

14.4 Packing group : Not regulated

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

14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name : Not regulated

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

14.4 Packing group : Not regulated

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

14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name : Not regulated

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

14.4 Packing group : Not regulated

IMDG Code (International Maritime Dangerous Goods Regulations)

14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name : Not regulated

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

14.4 Packing group : Not regulated

IATA (Dangerous Goods Regulations)

14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name : Not regulated

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

14.4 Packing group : Not regulated

14.5 Environmental hazards

Marine pollutants (yes/no) : no

14.6 Special precautions for user

Special precautions for user is not applicable.

14.7 Maritime transport in bulk according to IMO instruments

MARPOL Annex II – Noxious Liquid Substances

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

Polysorbate 20; 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 (66th Edition) 2025
2024 EMERGENCY RESPONSE GUIDEBOOK (US DOT)
2025 TLVs and BEIs. (ACGIH)
Supplier's data/information
OSHA Hazard Communication Standard – 2024 (29 CFR 1910.1200)
Chemicals safety data management system "GHS Assistant" Version 4.35
(https://www.asahi-ghs.com/)

Revision information

First edition

General Disclaimer

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

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

Issue date: 18/Nov/2025

Safety Data Sheet

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

1.1 Product identifier:

Product name: Ab-Match Universal Kit

SDS NO：5310_7001_E-1

Component：Stop Solution

Product code:5310

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

Relevant identified uses of the product: Research and Development

Uses advised against: 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

GHS classification and label elements of the product

2.1 Classification of the substance or mixture

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

HEALTH HAZARDS

Skin corrosion/irritation: Category 1

Serious eye damage/eye irritation: Category 1

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

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

ENVIRONMENT HAZARDS

Hazardous to the aquatic environment, long-term (chronic): Category 3

(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)

Signal word: Danger

HAZARD STATEMENT

H314-Causes severe skin burns and eye damage

H318-Causes serious eye damage

H371-May cause damage to organs (respiratory system)

H373-May cause damage to organs through prolonged or repeated exposure (respiratory system)

H412-Harmful to aquatic life with long lasting effects

PRECAUTIONARY STATEMENT

Prevention

P273-Avoid release to the environment.

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

P264-Wash contaminated parts thoroughly after handling.

P280-Wear protective gloves.

P280-Wear protective gloves/protective clothing/eye protection/face protection.
P280-Wear eye protection/face protection.
P270-Do not eat, drink or smoke when using this product.

Response

P321-Specific treatment is required.
P314-Get medical advice/attention if you feel unwell.
P310-Immediately call a POISON CENTER/doctor/physician.
P308 + P311-IF exposed or concerned: Call a POISON CENTER/doctor/physician.
P304 + P340-IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P302 + P352-IF ON SKIN: Wash with plenty of soap and water.
P303 + P361 + P353-IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P332 + P313-If skin irritation occurs: Get medical advice/attention.
P363-Wash contaminated clothing before reuse.
P362 + P364-Take off contaminated clothing and wash it before reuse.
P305 + P351 + P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313-If eye irritation persists: Get medical advice/attention.
P301 + P330 + P331-IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Storage

P405-Store locked up.

Disposal

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

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

Mixture/Substance selection:

3.2 Mixture

Ingredient name	Content (%)	CAS No.	EC No.	Classification according to REGULATION (EC) No.1272/2008 [CLP]
Sulfuric acid	2.5	7664-93-9	231-639-5	Skin Corr. 1A, H314 [SCL's, M-Factors, ATE, Component notes] Skin Corr. 1A; H314: C >= 15 %;Skin Irrit. 2; H315: 5 % =< C < 15 %;Eye Irrit. 2; H319: 5 % =< C < 15 %;note:[B]
Water	<98.0	7732-18-5	231-791-2	-

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.
P310-Immediately call a POISON CENTER/doctor/physician.
P308 + P311-IF exposed or concerned: Call a POISON CENTER/doctor/physician.

IF INHALED

P304 + P340-Remove person to fresh air and keep comfortable for breathing.
P304 + P312-IF INHALED: Call a POISON CENTER/doctor/physician if you feel unwell.

IF ON SKIN (or hair)

P303 + P361 + P353-Take off immediately all contaminated clothing. Rinse skin with water or shower.
P302 + P352-Wash with plenty of soap and water.
P310-Immediately call a POISON CENTER/doctor/physician.
P332 + P313-If skin irritation occurs: Get medical advice/attention.

IF IN EYES

P305 + P351 + P338-Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310-Immediately call a POISON CENTER/doctor/physician.
P337 + P313-If eye irritation persists: Get medical advice/attention.

IF SWALLOWED

P301 + P330 + P331-Rinse mouth. Do NOT induce vomiting.
P301 + P312-IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

(Symptoms when skin and/or eye contact)

Irritation
Eye irritation

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.
P321-Specific treatment is required.

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use appropriate extinguishing media suitable for surrounding facilities.

Unsuitable extinguishing media

Unsuitable extinguishing media data is not available.

5.2 Specific hazards arising from the substance or mixture

Will form toxic sulfur oxides upon combustion.

5.3 Advice for firefighters

Specific fire-fighting measures

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 Personnel precautions, protective equipment and emergency procedures

Stop leak if safe to do so.

6.2 Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

6.3 Methods and materials for containment and cleaning up

Absorb spill with inert material (dry sand, earth, 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 8
Refer to section 13

Section 7. Handling and storage

7.1 Precautions for safe handling

Preventive measures

(Exposure Control for handling personnel)

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

(Precautions)

Avoid contact with skin.

Avoid contact with eyes.

Safety Measures

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

P280-Wear protective gloves, protective clothing or face protection.

P280-Wear protective gloves.

P280-Wear eye protection/face protection.

Any incompatibilities

Bases, Strong bases, Reducing agents, Strong reducing agents should not be mixed with the chemicals.

Advice on general occupational hygiene

P264-Wash contaminated parts thoroughly after handling.

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

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

P363-Wash contaminated clothing before reuse.

7.2 Storage

Conditions for safe storage

P233-Keep container tightly closed.

P235 + P410-Keep cool. Protect from sunlight.

P401-Store in accordance with local/national regulation.

P405-Store locked up.

Container and packaging materials for safe handling

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

ACGIH

(Sulfuric acid)

TWA: 0.2mg/m3(T) (Pulm func)

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

(Sulfuric acid)

LTEL: (mist) 0.05mg/cm3

OSHA-PEL

(Sulfuric acid)

TWA: 1mg/m3

NIOSH-REL

(Sulfuric acid)

TWA: 1mg/m3

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

Hand protection

Wear protective gloves. Recommended material(s): neoprene, impermeable or chemical resistant rubber

Chemical-resistant, impervious gloves complying with an approved standard should be used.

Eye protection

Wear safety glasses with side-shields or chemical safety goggle.

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 or initial boiling point data is not available.

Boiling range data is not available.

Flammability data is not available.

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

Flash point data is not available.

Auto-ignition temperature data is not available.

Decomposition temperature data is not available.

pH: 1

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

Strong acids, Strong bases, Reducing agents

10.6 Hazardous decomposition products

Sulfur oxides

Section 11. Toxicological Information

11.1 Information on toxicological effects

Acute toxicity data is not available.

Irritant properties

Skin corrosion/irritation

[GHS Cat. based on pH]

pH <= 2, accordingly Skin corrosion/irritation: Category 1

[Table 3 of Annex VI to the CLP Regulations]

(Sulfuric acid)

Category 1A

Serious eye damage/irritation

[GHS Cat. based on pH]

pH <= 2, accordingly Serious eye damage/eye irritation: Category 1

Allergenic and sensitizing effects data is not available.

Mutagenic effects data is not available.

Carcinogenicity

[IARC]

(Sulfuric acid)

Group 1 : Carcinogenic to humans

[ACGIH]

(Sulfuric acid)

A2: Suspected Human Carcinogen

[NTP]

(Sulfuric acid)

Known : Known to be Human Carcinogens

Teratogenic effects data is not available.

Reproductive toxicity data is not available.

Specific target organ toxicity (STOT)

STOT-single exposure data is not available.

STOT-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

(Sulfuric acid)

miscible (20℃) (source: ICSC, 2016)

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

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

13.1 Waste treatment methods

P273-Avoid release to the environment.

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

Contaminated packing

Dispose of container after using the contents completely.

Section 14. Transport Information

UN No., UN CLASS

14.1 UN Number or ID Number : 2796

14.2 UN Proper Shipping Name :

SULPHURIC ACID with not more than 51% acid or BATTERY FLUID, ACID

14.3 Class or division (Transport hazard class) : 8

14.4 Packing group : II

ERG GUIDE No.: 157

Limited quantities (upper limit) : 1L

Excepted quantities (maximum net quantity) : E2

Packing (P) instructions : P001

IBCs (IBC) packing instructions : IBC02

Portable tanks (T) instructions : T8

Portable tanks (TP) special provisions : TP2

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

14.1 UN Number or ID Number : 2796

14.2 UN Proper Shipping Name :

SULPHURIC ACID with not more than 51% acid or BATTERY FLUID, ACID

14.3 Class or division (Transport hazard class) : 8

Label : 8

14.4 Packing group : II

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

14.1 UN Number or ID Number : 2796

14.2 UN Proper Shipping Name :

SULPHURIC ACID with not more than 51% acid or BATTERY FLUID, ACID

14.3 Class or division (Transport hazard class) : 8

Label : 8

14.4 Packing group : II

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

14.1 UN Number or ID Number : 2796

14.2 UN Proper Shipping Name :

SULPHURIC ACID with not more than 51% acid or BATTERY FLUID, ACID

14.3 Class or division (Transport hazard class) : 8

Label : 8

14.4 Packing group : II

IMDG Code (International Maritime Dangerous Goods Regulations)

14.1 UN Number or ID Number : 2796

14.2 UN Proper Shipping Name :
SULPHURIC ACID with not more than 51% acid or BATTERY FLUID, ACID
14.3 Class or division (Transport hazard class) : 8
14.4 Packing group : II

IATA (Dangerous Goods Regulations)

14.1 UN Number or ID Number : 2796
14.2 UN Proper Shipping Name :
SULPHURIC ACID with not more than 51% acid or BATTERY FLUID, ACID
14.3 Class or division (Transport hazard class) : 8
Hazard labels : Corrosive
14.4 Packing group : II

14.5 Environmental hazards

Marine pollutants (yes/no) : no

14.6 Special precautions for user

Special precautions for user is not applicable.

14.7 Maritime transport in bulk according to IMO instruments

MARPOL Annex II - Noxious Liquid Substances

Noxious Liquid Substances ; Cat. Y
Sulfuric acid
Non Noxious Liquid Substances ; Cat. OS
Water

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

Specific target organ toxicity - repeated exposure: cat.1
Sulfuric acid
Hazardous to the aquatic environment - long-term (chronic): cat.1, 2
Sulfuric acid

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

Sulfuric acid; Water

Superfund Amendments and Reauthorizations Act (SARA), Title III

SARA 313 (TRI)

Sulfuric acid

15.2 Chemical safety assessment

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

Section 16. Other information

GHS classification and labelling

H314-Skin corrosion/irritation, Category 1: H314 Causes severe skin burns and eye damage
H318-Serious eye damage/eye irritation, Category 1: H318 Causes serious eye damage
H371-STOT - single exposure, Category 2: H371 May cause damage to organs
H373-STOT - Repeated exposure, Category 2: H373 May cause damage to organs through prolonged or repeated exposure
H412-Hazardous to the aquatic environment, long-term (chronic), Category 3: H412 Harmful to aquatic life with long lasting effects

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

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

Skin 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 (66th Edition) 2025
2024 EMERGENCY RESPONSE GUIDEBOOK (US DOT)
2025 TLVs and BEIs. (ACGIH)
Supplier's data/information
OSHA Hazard Communication Standard – 2024 (29 CFR 1910.1200)
Chemicals safety data management system "GHS Assistant" Version 4.35
(https://www.asahi-ghs.com/)

Abbreviations and acronyms

(T) – Thoracic particulate matter; see Appendix C, paragraph B.; func – function; pulm – pulmonary

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.

Issue date: 18/Nov/2025

Safety Data Sheet

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

1.1 Product identifier:

Product name: Ab-Match Universal Kit

SDS NO：531040001_E-1

Component：Sample Diluent

Product code:5310

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

Relevant identified uses of the product: Research and Development

Uses advised against: 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

GHS classification and label elements of the product

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)

No GHS label element

No Signal word

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

Mixture/Substance selection:

3.2 Mixture

Ingredient name	Content (%)	CAS No.	EC No.	Classification according to REGULATION (EC) No.1272/2008 [CLP]
Albumin, Bovine	1.00	9048-46-8	232-936-2	-
Polysorbate 20	0.10	9005-64-5	500-018-3	-
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	0.002	55965-84-9	-	Acute Tox. 2, H330; Acute Tox. 2, H310; Acute Tox. 3, H301; Skin Corr. 1C, H314; Eye Dam. 1, H318; Skin Sens. 1A, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410;EUH071 [SCL's, M-Factors, ATE, Component notes] Skin Corr. 1C; : C >= ,6 %;Skin Irrit. 2; H315: ,06 % =< C < ,6 %;Eye Dam. 1; : C

				>= ,6 %;Eye Irrit. 2; H319: ,06 % =< C < ,6 %;Skin Sens. 1A; : C >= ,0015 %;M=100;M=100;note:[B]
Water	92.00<	7732-18-5	231-791-2	-

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/physician if you feel unwell.

IF ON SKIN (or hair)

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

IF IN EYES

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

IF SWALLOWED

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

4.2 Most important symptoms and effects, both acute and delayed

Specific information on symptom and effect are unknown.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use appropriate extinguishing media suitable for surrounding facilities.

Unsuitable extinguishing media

Unsuitable extinguishing media data is not available.

5.3 Advice for firefighters

Specific fire-fighting measures

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 Personnel precautions, protective equipment and emergency procedures

Stop leak if safe to do so.

6.2 Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

6.3 Methods and materials for containment and cleaning up

Absorb spill with inert material (dry sand, earth, 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

Preventive measures

(Exposure Control for handling personnel)

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

Safety Measures

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

Any incompatibilities data is not available.

Advice on general occupational hygiene

P264-Wash contaminated parts thoroughly after handling.

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

7.2 Storage

Conditions for safe storage

P233-Keep container tightly closed.

P235 + P410-Keep cool. Protect from sunlight.

P401-Store in accordance with local/national regulation.

Container and packaging materials for safe handling

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

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

Hand protection

Wear protective gloves.

Eye protection

Wear eye/face protection.

Skin and body protection

Wear protective clothing.

Section 9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical state: Liquid

Odor data is not available.
Odor threshold data is not available.
Melting point/Freezing point data is not available.
Boiling point or initial boiling point data is not available.
Boiling range data is not available.
Flammability data is not available.
Lower and upper explosion limit/flammability limit data is not available.
Flash point data is not available.
Auto-ignition temperature data is not available.
Decomposition temperature data is not available.
pH: 7.4
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]
(Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1))
Category 3

Acute toxicity (Dermal)

[Table 3 of Annex VI to the CLP Regulations]
(Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one(3:1))
Category 2

Acute toxicity (Inhalation)

[Table 3 of Annex VI to the CLP Regulations]
(Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one(3:1))
Category 2

Irritant properties
Skin corrosion/irritation
[Table 3 of Annex VI to the CLP Regulations]
(Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1))
Category 1C
Serious eye damage/irritation
[Table 3 of Annex VI to the CLP Regulations]
(Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1))
Category 1
Sensitization
Skin sensitization
[Table 3 of Annex VI to the CLP Regulations]
(Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1))
Category 1A
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 (STOT)
STOT-single exposure data is not available.
STOT-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
Aquatic toxicity
Hazardous to the aquatic environment, short-term (acute)
[Table 3 of Annex VI to the CLP Regulations]
(Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one(3:1))
Category 1
Hazardous to the aquatic environment, long-term (chronic)
[Table 3 of Annex VI to the CLP Regulations]
(Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1))
Category 1
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

Description of waste residues and information on their safe handling and methods of disposal,

including the disposal of any contaminated packaging
13.1 Waste treatment methods
P273-Avoid release to the environment.
P501-Dispose of contents/container in accordance with local/national regulation.
Contaminated packing
Dispose of container after using the contents completely.

Section 14. Transport Information
UN No., UN CLASS
14.1 UN Number or ID Number : Not regulated
14.2 UN Proper Shipping Name : Not regulated
14.3 Class or division (Transport hazard class) : Not regulated
14.4 Packing group : Not regulated
ADR (European Agreement concerning the International Carriage of Dangerous Goods by Road)
14.1 UN Number or ID Number : Not regulated
14.2 UN Proper Shipping Name : Not regulated
14.3 Class or division (Transport hazard class) : Not regulated
14.4 Packing group : Not regulated
ADN (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
14.1 UN Number or ID Number : Not regulated
14.2 UN Proper Shipping Name : Not regulated
14.3 Class or division (Transport hazard class) : Not regulated
14.4 Packing group : Not regulated
RID (Regulation concerning the International Carriage of Dangerous goods by Rail)
14.1 UN Number or ID Number : Not regulated
14.2 UN Proper Shipping Name : Not regulated
14.3 Class or division (Transport hazard class) : Not regulated
14.4 Packing group : Not regulated
IMDG Code (International Maritime Dangerous Goods Regulations)
14.1 UN Number or ID Number : Not regulated
14.2 UN Proper Shipping Name : Not regulated
14.3 Class or division (Transport hazard class) : Not regulated
14.4 Packing group : Not regulated
IATA (Dangerous Goods Regulations)
14.1 UN Number or ID Number : Not regulated
14.2 UN Proper Shipping Name : Not regulated
14.3 Class or division (Transport hazard class) : Not regulated
14.4 Packing group : Not regulated
14.5 Environmental hazards
Marine pollutants (yes/no) : no
14.6 Special precautions for user
Special precautions for user is not applicable.
14.7 Maritime transport in bulk according to IMO instruments
MARPOL Annex II - Noxious Liquid Substances
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

Polysorbate 20; 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. 3, H301 – Acute toxicity, Category 3: H301 Toxic if swallowed

Acute Tox. 2, H310 – Acute toxicity, Category 2: H310 Fatal in contact with skin

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

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

Skin Sens. 1A, H317 – Skin sensitization, Category 1A: H317 May cause an allergic skin reaction

Eye Dam. 1, H318 – Serious eye damage/eye irritation, Category 1: H318 Causes serious eye damage

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

Acute Tox. 2, H330 – Acute toxicity, Category 2: H330 Fatal if inhaled

Aquatic Acute 1, H400 – Hazardous to the aquatic environment, short-term (acute), Category 1: H400 Very toxic to aquatic life

Aquatic Chronic 1, H410 – Hazardous to the aquatic environment, long-term (chronic), Category 1: H410 Very toxic to aquatic life with long lasting effects

EUH071 – Corrosive to the respiratory tract

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 (66th Edition) 2025

2024 EMERGENCY RESPONSE GUIDEBOOK (US DOT)

2025 TLVs and BEIs. (ACGIH)

Supplier's data/information

OSHA Hazard Communication Standard – 2024 (29 CFR 1910.1200)

Revision information

First edition

General Disclaimer

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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.

Issue date: 18/Nov/2025

Safety Data Sheet

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

1.1 Product identifier:

Product name: Ab-Match Universal kit

SDS NO：5310100001_E-1

Component：Microwell strips

Product code:5310

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

Relevant identified uses of the product: Research and Development

Uses advised against: 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

GHS classification and label elements of the product

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)

No GHS label element

No Signal word

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

Mixture/Substance selection:

3.2 Mixture

Ingredient name	Content (%)	CAS No.	EC No.	Classification according to REGULATION (EC) No.1272/2008 [CLP]
Non Hazardous Substance	99.00<	-	-	-

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/physician if you feel unwell.

IF ON SKIN (or hair)

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

IF IN EYES

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

IF SWALLOWED

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

4.2 Most important symptoms and effects, both acute and delayed

Specific information on symptom and effect are unknown.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use appropriate extinguishing media suitable for surrounding facilities.

Unsuitable extinguishing media

Unsuitable extinguishing media data is not available.

5.3 Advice for firefighters

Specific fire-fighting measures

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 Personnel precautions, protective equipment and emergency procedures

Stop leak if safe to do so.

6.2 Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

6.3 Methods and materials for containment and cleaning up

Absorb spill with inert material (dry sand, earth, 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

Preventive measures

(Exposure Control for handling personnel)

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

Safety Measures

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

Any incompatibilities data is not available.

Advice on general occupational hygiene

P264-Wash contaminated parts thoroughly after handling.

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

7.2 Storage

Conditions for safe storage

P233-Keep container tightly closed.

P235 + P410-Keep cool. Protect from sunlight.

P401-Store in accordance with local/national regulation.

Container and packaging materials for safe handling

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

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

Hand protection

Wear protective gloves.

Eye protection

Wear eye/face protection.

Skin and body protection

Wear protective clothing.

Section 9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical state: Solid

Color: Colorless

Odor data is not available.

Odor threshold data is not available.

Melting point/Freezing point data is not available.

Boiling point or initial boiling point data is not available.

Boiling range data is not available.

Flammability data is not available.

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

Flash point data is not available.

Auto-ignition temperature data is not available.

Decomposition temperature data is not available.

pH: Not applicable

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.
Irritant properties
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.
Carcinogenicity
[IARC]
(Non Hazardous Substance)
Group 3 : Not classifiable as to its carcinogenicity to humans
Teratogenic effects data is not available.
Reproductive toxicity data is not available.
Specific target organ toxicity (STOT)
STOT-single exposure data is not available.
STOT-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

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

13.1 Waste treatment methods

P273-Avoid release to the environment.

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

Contaminated packing

Dispose of container after using the contents completely.

Section 14. Transport Information

UN No., UN CLASS

14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name : Not regulated

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

14.4 Packing group : Not regulated

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

14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name : Not regulated

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

14.4 Packing group : Not regulated

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

14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name : Not regulated

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

14.4 Packing group : Not regulated

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

14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name : Not regulated

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

14.4 Packing group : Not regulated

IMDG Code (International Maritime Dangerous Goods Regulations)

14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name : Not regulated

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

14.4 Packing group : Not regulated

IATA (Dangerous Goods Regulations)

14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name : Not regulated

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

14.4 Packing group : Not regulated

14.5 Environmental hazards

Marine pollutants (yes/no) : no

14.6 Special precautions for user

Special precautions for user is not applicable.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable to Transport in bulk according to Annex II of MARPOL and the IBC Code

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

Non Hazardous Substance

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 (66th Edition) 2025
2024 EMERGENCY RESPONSE GUIDEBOOK (US DOT)
2025 TLVs and BEIs. (ACGIH)
Supplier's data/information
OSHA Hazard Communication Standard - 2024 (29 CFR 1910.1200)
Chemicals safety data management system "GHS Assistant" Version 4.35
(https://www.asahi-ghs.com/)

Revision information

First edition

General Disclaimer

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

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

Issue date: 18/Nov/2025

Safety Data Sheet

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

1.1 Product identifier:

Product name: Ab-Match Universal kit

SDS NO：5310110001_E-1

Component：Coating Buffer

Product code:5310

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

Relevant identified uses of the product: Research and Development

Uses advised against: 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

GHS classification and label elements of the product

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)

No GHS label element

No Signal word

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

Mixture/Substance selection:

3.2 Mixture

Ingredient name	Content (%)	CAS No.	EC No.	Classification according to REGULATION (EC) No.1272/2008 [CLP]
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	0.002	55965-84-9	-	Acute Tox. 2, H330; Acute Tox. 2, H310; Acute Tox. 3, H301; Skin Corr. 1C, H314; Eye Dam. 1, H318; Skin Sens. 1A, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410;EUH071 [SCL's, M-Factors, ATE, Component notes] Skin Corr. 1C; : C >= ,6 %;Skin Irrit. 2; H315: ,06 % =< C < ,6 %;Eye Dam. 1; : C >= ,6 %;Eye Irrit. 2; H319: ,06 % =< C < ,6 %;Skin Sens. 1A; : C >= ,0015 %;M=100;M=100;note:[B]

Water	97.00<	7732-18-5	231-791-2	-

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/physician if you feel unwell.

IF ON SKIN (or hair)

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

IF IN EYES

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

IF SWALLOWED

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

4.2 Most important symptoms and effects, both acute and delayed

Specific information on symptom and effect are unknown.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use appropriate extinguishing media suitable for surrounding facilities.

Unsuitable extinguishing media

Unsuitable extinguishing media data is not available.

5.3 Advice for firefighters

Specific fire-fighting measures

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 Personnel precautions, protective equipment and emergency procedures

Stop leak if safe to do so.

6.2 Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

6.3 Methods and materials for containment and cleaning up

Absorb spill with inert material (dry sand, earth, 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

Preventive measures

(Exposure Control for handling personnel)

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

Safety Measures

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

Any incompatibilities data is not available.

Advice on general occupational hygiene

P264-Wash contaminated parts thoroughly after handling.

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

7.2 Storage

Conditions for safe storage

P233-Keep container tightly closed.

P235 + P410-Keep cool. Protect from sunlight.

P401-Store in accordance with local/national regulation.

Container and packaging materials for safe handling

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

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

Hand protection

Wear protective gloves.

Eye protection

Wear eye/face protection.

Skin and body protection

Wear protective clothing.

Section 9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical state: Liquid

Color: Colorless

Odor data is not available.

Odor threshold data is not available.

Melting point/Freezing point data is not available.
Boiling point or initial boiling point data is not available.
Boiling range data is not available.
Flammability data is not available.
Lower and upper explosion limit/flammability limit data is not available.
Flash point data is not available.
Auto-ignition temperature data is not available.
Decomposition temperature data is not available.
pH: 9.6
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]
(Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one(3:1))
Category 3

Acute toxicity (Dermal)

[Table 3 of Annex VI to the CLP Regulations]
(Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one(3:1))
Category 2

Acute toxicity (Inhalation)

[Table 3 of Annex VI to the CLP Regulations]
(Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one(3:1))
Category 2

Irritant properties

Skin corrosion/irritation

[Table 3 of Annex VI to the CLP Regulations]
(Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1))
Category 1C

Serious eye damage/irritation

[Table 3 of Annex VI to the CLP Regulations]
(Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one(3:1))
Category 1

Sensitization

Skin sensitization

[Table 3 of Annex VI to the CLP Regulations]
(Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1))
Category 1A

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 (STOT)

STOT-single exposure data is not available.

STOT-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

Aquatic toxicity

Hazardous to the aquatic environment, short-term (acute)

[Table 3 of Annex VI to the CLP Regulations]
(Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1))
Category 1

Hazardous to the aquatic environment, long-term (chronic)

[Table 3 of Annex VI to the CLP Regulations]
(Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1))
Category 1

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

Description of waste residues and information on their safe handling and methods of disposal,

including the disposal of any contaminated packaging

13.1 Waste treatment methods

P273-Avoid release to the environment.

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

Contaminated packing

Dispose of container after using the contents completely.

Section 14. Transport Information

UN No., UN CLASS

14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name : Not regulated

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

14.4 Packing group : Not regulated

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

14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name : Not regulated

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

14.4 Packing group : Not regulated

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

14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name : Not regulated

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

14.4 Packing group : Not regulated

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

14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name : Not regulated

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

14.4 Packing group : Not regulated

IMDG Code (International Maritime Dangerous Goods Regulations)

14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name : Not regulated

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

14.4 Packing group : Not regulated

IATA (Dangerous Goods Regulations)

14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name : Not regulated

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

14.4 Packing group : Not regulated

14.5 Environmental hazards

Marine pollutants (yes/no) : no

14.6 Special precautions for user

Special precautions for user is not applicable.

14.7 Maritime transport in bulk according to IMO instruments

MARPOL Annex II - Noxious Liquid Substances

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

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

Acute Tox. 3, H301 - Acute toxicity, Category 3: H301 Toxic if swallowed

Acute Tox. 2, H310 - Acute toxicity, Category 2: H310 Fatal in contact with skin

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

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

Skin Sens. 1A, H317 - Skin sensitization, Category 1A: H317 May cause an allergic skin reaction

Eye Dam. 1, H318 - Serious eye damage/eye irritation, Category 1: H318 Causes serious eye damage

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

Acute Tox. 2, H330 - Acute toxicity, Category 2: H330 Fatal if inhaled

Aquatic Acute 1, H400 - Hazardous to the aquatic environment, short-term (acute), Category 1: H400 Very toxic to aquatic life

Aquatic Chronic 1, H410 - Hazardous to the aquatic environment, long-term (chronic), Category 1: H410 Very toxic to aquatic life with long lasting effects

EUH071 - Corrosive to the respiratory tract

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 (66th Edition) 2025

2024 EMERGENCY RESPONSE GUIDEBOOK (US DOT)

2025 TLVs and BEIs. (ACGIH)

Supplier's data/information

OSHA Hazard Communication Standard - 2024 (29 CFR 1910.1200)

Chemicals safety data management system "GHS Assistant" Version 4.35 (https://www.asahi-ghs.com/)

Revision information

First edition

General Disclaimer

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

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

Issue date: 18/Nov/2025

Safety Data Sheet

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

1.1 Product identifier:

Product name: Ab-Match Universal Kit

SDS NO：5310120001_E-1

Component：Blocking Agent

Product code:5310

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

Relevant identified uses of the product: Research and Development

Uses advised against: 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

GHS classification and label elements of the product

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)

No GHS label element

No Signal word

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

Mixture/Substance selection:

3.2 Mixture

Ingredient name	Content (%)	CAS No.	EC No.	Classification according to REGULATION (EC) No.1272/2008 [CLP]
Albumin, Bovine	1.00	9048-46-8	232-936-2	-
Sucrose	5.00	57-50-1	200-334-9	-
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	0.002	55965-84-9	-	Acute Tox. 2, H330; Acute Tox. 2, H310; Acute Tox. 3, H301; Skin Corr. 1C, H314; Eye Dam. 1, H318; Skin Sens. 1A, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410;EUH071 [SCL's, M-Factors, ATE, Component notes] Skin Corr. 1C; : C >= ,6 %;Skin Irrit. 2; H315: ,06 % =< C < ,6 %;Eye Dam. 1; : C

				>= ,6 %;Eye Irrit. 2; H319: ,06 % =< C < ,6 %;Skin Sens. 1A; : C >= ,0015 %;M=100;M=100;note:[B]
Water	93.00<	7732-18-5	231-791-2	-

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/physician if you feel unwell.

IF ON SKIN (or hair)

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

IF IN EYES

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

IF SWALLOWED

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

4.2 Most important symptoms and effects, both acute and delayed

Specific information on symptom and effect are unknown.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use appropriate extinguishing media suitable for surrounding facilities.

Unsuitable extinguishing media

Unsuitable extinguishing media data is not available.

5.3 Advice for firefighters

Specific fire-fighting measures

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 Personnel precautions, protective equipment and emergency procedures

Stop leak if safe to do so.

6.2 Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

6.3 Methods and materials for containment and cleaning up

Absorb spill with inert material (dry sand, earth, 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

Preventive measures

(Exposure Control for handling personnel)

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

Safety Measures

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

Any incompatibilities data is not available.

Advice on general occupational hygiene

P264-Wash contaminated parts thoroughly after handling.

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

7.2 Storage

Conditions for safe storage

P233-Keep container tightly closed.

P235 + P410-Keep cool. Protect from sunlight.

P401-Store in accordance with local/national regulation.

Container and packaging materials for safe handling

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

ACGIH

(Sucrose)

TWA: 10mg/m3 (Dental erosion)

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

(Sucrose)

TWA: 15mg/m3 (total dust)

TWA: 5mg/m3 (Respirable fraction)

NIOSH-REL

(Sucrose)

TWA: 10mg/m3 (total dust)

TWA: 5mg/m3 (Respirable fraction)

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

Hand protection

Wear protective gloves.

Eye protection
Wear eye/face protection.
Skin and body protection
Wear protective clothing.

Section 9. Physical and Chemical Properties
9.1 Information on basic physical and chemical properties
Physical state: Liquid
Color: Colorless
Odor data is not available.
Odor threshold data is not available.
Melting point/Freezing point data is not available.
Boiling point or initial boiling point data is not available.
Boiling range data is not available.
Flammability data is not available.
Lower and upper explosion limit/flammability limit data is not available.
Flash point data is not available.
Auto-ignition temperature data is not available.
Decomposition temperature data is not available.
pH: 7.4
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]

(Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1))
Category 3
Acute toxicity (Dermal)
[Table 3 of Annex VI to the CLP Regulations]
(Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1))
Category 2
Acute toxicity (Inhalation)
[Table 3 of Annex VI to the CLP Regulations]
(Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1))
Category 2
Irritant properties
Skin corrosion/irritation
[Table 3 of Annex VI to the CLP Regulations]
(Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1))
Category 1C
Serious eye damage/irritation
[Table 3 of Annex VI to the CLP Regulations]
(Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1))
Category 1
Sensitization
Skin sensitization
[Table 3 of Annex VI to the CLP Regulations]
(Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one(3:1))
Category 1A
Mutagenic effects data is not available.
Carcinogenicity
[ACGIH]
(Sucrose)
A4: Not Classifiable as a Human Carcinogen
Teratogenic effects data is not available.
Reproductive toxicity data is not available.
Specific target organ toxicity (STOT)
STOT-single exposure data is not available.
STOT-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
Aquatic toxicity
Hazardous to the aquatic environment, short-term (acute)
[Table 3 of Annex VI to the CLP Regulations]
(Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1))
Category 1
Hazardous to the aquatic environment, long-term (chronic)
[Table 3 of Annex VI to the CLP Regulations]
(Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1))
Category 1
Water solubility
(Sucrose)

200 g/100 mL (25℃) (source: ICSC, 2003)

12.2 Persistence and degradability

Persistence and degradability data is not available.

12.3 Bioaccumulative potential

(Sucrose)

log Pow: -3.67 (source: ICSC, 2003)

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

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

13.1 Waste treatment methods

P273-Avoid release to the environment.

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

Contaminated packing

Dispose of container after using the contents completely.

Section 14. Transport Information

UN No., UN CLASS

14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name : Not regulated

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

14.4 Packing group : Not regulated

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

14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name : Not regulated

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

14.4 Packing group : Not regulated

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

14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name : Not regulated

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

14.4 Packing group : Not regulated

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

14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name : Not regulated

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

14.4 Packing group : Not regulated

IMDG Code (International Maritime Dangerous Goods Regulations)

14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name : Not regulated

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

14.4 Packing group : Not regulated

IATA (Dangerous Goods Regulations)
14.1 UN Number or ID Number : Not regulated
14.2 UN Proper Shipping Name : Not regulated
14.3 Class or division (Transport hazard class) : Not regulated
14.4 Packing group : Not regulated
14.5 Environmental hazards
Marine pollutants (yes/no) : no
14.6 Special precautions for user
Special precautions for user is not applicable.
14.7 Maritime transport in bulk according to IMO instruments
MARPOL Annex II – Noxious Liquid Substances
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
Sucrose; 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. 3, H301 – Acute toxicity, Category 3: H301 Toxic if swallowed
Acute Tox. 2, H310 – Acute toxicity, Category 2: H310 Fatal in contact with skin
Skin Corr. 1C, H314 – Skin corrosion/irritation, Category 1C: H314 Causes severe skin burns and eye damage
Skin Irrit. 2, H315 – Skin corrosion/irritation, Category 2: H315 Causes skin irritation
Skin Sens. 1A, H317 – Skin sensitization, Category 1A: H317 May cause an allergic skin reaction
Eye Dam. 1, H318 – Serious eye damage/eye irritation, Category 1: H318 Causes serious eye damage
Eye Irrit. 2, H319 – Serious eye damage/eye irritation, Category 2: H319 Causes serious eye irritation
Acute Tox. 2, H330 – Acute toxicity, Category 2: H330 Fatal if inhaled
Aquatic Acute 1, H400 – Hazardous to the aquatic environment, short-term (acute), Category 1: H400 Very toxic to aquatic life
Aquatic Chronic 1, H410 – Hazardous to the aquatic environment, long-term (chronic), Category 1: H410 Very toxic to aquatic life with long lasting effects
EUH071 – Corrosive to the respiratory tract
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 (66th Edition) 2025
2024 EMERGENCY RESPONSE GUIDEBOOK (US DOT)
2025 TLVs and BEIs. (ACGIH)
Supplier's data/information

OSHA Hazard Communication Standard – 2024 (29 CFR 1910.1200)
Chemicals safety data management system "GHS Assistant" Version 4.35
(https://www.asahi-ghs.com/)

Revision information

First edition

General Disclaimer

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

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

Issue date: 18/Nov/2025

Safety Data Sheet

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

1.1 Product identifier:

Product name: Ab-Match Universal Kit

SDS NO：5310310001_E-1

Component：SA-HRP Diluent

Product code:5310

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

Relevant identified uses of the product: Research and Development

Uses advised against: 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

GHS classification and label elements of the product

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)

No GHS label element

No Signal word

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

Mixture/Substance selection:

3.2 Mixture

Ingredient name	Content (%)	CAS No.	EC No.	Classification according to REGULATION (EC) No.1272/2008 [CLP]
Albumin, Bovine	1.00	9048-46-8	232-936-2	-
p-Hydroxyphenylacetic acid	0.10	156-38-7	205-851-3	-
Water	97.00<	7732-18-5	231-791-2	-
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	0.002	55965-84-9	-	Acute Tox. 2, H330; Acute Tox. 2, H310; Acute Tox. 3, H301; Skin Corr. 1C, H314; Eye Dam. 1, H318; Skin Sens. 1A, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410;EUH071 [SCL's, M-Factors, ATE, Component notes]

				Skin Corr. 1C; : C >= ,6 %;Skin Irrit. 2; H315: ,06 % =< C < ,6 %;Eye Dam. 1; : C >= ,6 %;Eye Irrit. 2; H319: ,06 % =< C < ,6 %;Skin Sens. 1A; : C >= ,0015 %;M=100;M=100;note:[B]

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/physician if you feel unwell.

IF ON SKIN (or hair)

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

IF IN EYES

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

IF SWALLOWED

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

4.2 Most important symptoms and effects, both acute and delayed

Specific information on symptom and effect are unknown.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use appropriate extinguishing media suitable for surrounding facilities.

Unsuitable extinguishing media

Unsuitable extinguishing media data is not available.

5.3 Advice for firefighters

Specific fire-fighting measures

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 Personnel precautions, protective equipment and emergency procedures

Stop leak if safe to do so.

6.2 Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

6.3 Methods and materials for containment and cleaning up

Absorb spill with inert material (dry sand, earth, 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
Preventive measures
(Exposure Control for handling personnel)
P260-Do not breathe dust/fume/gas/mist/vapors/spray.
Safety Measures
P280-Wear protective gloves/protective clothing/eye protection/face protection.
Any incompatibilities data is not available.
Advice on general occupational hygiene
P264-Wash contaminated parts thoroughly after handling.
P270-Do not eat, drink or smoke when using this product.
7.2 Storage
Conditions for safe storage
P233-Keep container tightly closed.
P235 + P410-Keep cool. Protect from sunlight.
P401-Store in accordance with local/national regulation.
Container and packaging materials for safe handling
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
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
Hand protection
Wear protective gloves.
Eye protection
Wear eye/face protection.
Skin and body protection
Wear protective clothing.

Section 9. Physical and Chemical Properties
9.1 Information on basic physical and chemical properties

Physical state: Liquid
Color: Pale blue
Odor data is not available.
Odor threshold data is not available.
Melting point/Freezing point data is not available.
Boiling point or initial boiling point data is not available.
Boiling range data is not available.
Flammability data is not available.
Lower and upper explosion limit/flammability limit data is not available.
Flash point data is not available.
Auto-ignition temperature data is not available.
Decomposition temperature data is not available.
pH: 7.4
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]
(Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1))
Category 3

Acute toxicity (Dermal)

[Table 3 of Annex VI to the CLP Regulations]
(Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1))
Category 2

Acute toxicity (Inhalation)

[Table 3 of Annex VI to the CLP Regulations]

(Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1))
Category 2
Irritant properties
Skin corrosion/irritation
[Table 3 of Annex VI to the CLP Regulations]
(Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1))
Category 1C
Serious eye damage/irritation
[Table 3 of Annex VI to the CLP Regulations]
(Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one(3:1))
Category 1
Sensitization
Skin sensitization
[Table 3 of Annex VI to the CLP Regulations]
(Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one(3:1))
Category 1A
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 (STOT)
STOT-single exposure data is not available.
STOT-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
Aquatic toxicity
Hazardous to the aquatic environment, short-term (acute)
[Table 3 of Annex VI to the CLP Regulations]
(Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1))
Category 1
Hazardous to the aquatic environment, long-term (chronic)
[Table 3 of Annex VI to the CLP Regulations]
(Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one(3:1))
Category 1
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

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

13.1 Waste treatment methods

P273-Avoid release to the environment.

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

Contaminated packing

Dispose of container after using the contents completely.

Section 14. Transport Information

UN No., UN CLASS

14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name : Not regulated

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

14.4 Packing group : Not regulated

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

14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name : Not regulated

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

14.4 Packing group : Not regulated

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

14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name : Not regulated

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

14.4 Packing group : Not regulated

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

14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name : Not regulated

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

14.4 Packing group : Not regulated

IMDG Code (International Maritime Dangerous Goods Regulations)

14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name : Not regulated

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

14.4 Packing group : Not regulated

IATA (Dangerous Goods Regulations)

14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name : Not regulated

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

14.4 Packing group : Not regulated

14.5 Environmental hazards

Marine pollutants (yes/no) : no

14.6 Special precautions for user

Special precautions for user is not applicable.

14.7 Maritime transport in bulk according to IMO instruments

MARPOL Annex II - Noxious Liquid Substances

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

p-Hydroxyphenylacetic acid; 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. 3, H301 – Acute toxicity, Category 3: H301 Toxic if swallowed

Acute Tox. 2, H310 – Acute toxicity, Category 2: H310 Fatal in contact with skin

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

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

Skin Sens. 1A, H317 – Skin sensitization, Category 1A: H317 May cause an allergic skin reaction

Eye Dam. 1, H318 – Serious eye damage/eye irritation, Category 1: H318 Causes serious eye damage

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

Acute Tox. 2, H330 – Acute toxicity, Category 2: H330 Fatal if inhaled

Aquatic Acute 1, H400 – Hazardous to the aquatic environment, short-term (acute), Category 1: H400 Very toxic to aquatic life

Aquatic Chronic 1, H410 – Hazardous to the aquatic environment, long-term (chronic), Category 1: H410 Very toxic to aquatic life with long lasting effects

EUH071 – Corrosive to the respiratory tract

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 (66th Edition) 2025

2024 EMERGENCY RESPONSE GUIDEBOOK (US DOT)

2025 TLVs and BEIs. (ACGIH)

Supplier's data/information

OSHA Hazard Communication Standard – 2024 (29 CFR 1910.1200)

Chemicals safety data management system "GHS Assistant" Version 4.35

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

Revision information

First edition

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Issue date: 18/Nov/2025

Safety Data Sheet

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

1.1 Product identifier:

Product name: Ab-Match Universal Kit

SDS NO：5310600001_E-1

Component：Substrate Solution

Product code:5310

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

Relevant identified uses of the product: Research and Development

Uses advised against: 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

GHS classification and label elements of the product

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)

No GHS label element

No Signal word

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

Mixture/Substance selection:

3.2 Mixture

Ingredient name	Content (%)	CAS No.	EC No.	Classification according to REGULATION (EC) No.1272/2008 [CLP]
3,3',5,5'-Tetramethylbenzidine	0.05	54827-17-7	259-364-6	-
Triethylenetetramine	<0.06	112-24-3	203-950-6	Acute Tox. 4 *, H312; Skin Corr. 1B, H314; Skin Sens. 1, H317; Aquatic Chronic 3, H412
Hydrogen peroxide	0.02	7722-84-1	231-765-0	Ox. Liq. 1, H271; Acute Tox. 4 *, H332; Acute Tox. 4 *, H302; Skin Corr. 1A, H314 [SCL's, M-Factors, ATE, Component notes] Ox. Liq. 1; H271: C >= 70 %****;Ox. Liq. 2;

				H272: 50 % =< C < 70 % ****;*;Skin Corr. 1A; H314: C >= 70 %;Skin Corr. 1B; H314: 50 % =< C < 70 %;Skin Irrit. 2; H315: 35 % =< C < 50 %;Eye Dam. 1; H318: 8 % =< C < 50 %;Eye Irrit. 2; H319: 5 % =< C < 8 %;STOT SE 3; H335; C >= 35 %;note:[B]
Water	99.00<	7732-18-5	231-791-2	-

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/physician if you feel unwell.

IF ON SKIN (or hair)

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

IF IN EYES

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

IF SWALLOWED

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

4.2 Most important symptoms and effects, both acute and delayed

Specific information on symptom and effect are unknown.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use appropriate extinguishing media suitable for surrounding facilities.

Unsuitable extinguishing media

Unsuitable extinguishing media data is not available.

5.3 Advice for firefighters

Specific fire-fighting measures

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 Personnel precautions, protective equipment and emergency procedures

Stop leak if safe to do so.

6.2 Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

6.3 Methods and materials for containment and cleaning up

Absorb spill with inert material (dry sand, earth, 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

Preventive measures

(Exposure Control for handling personnel)

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

Safety Measures

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

Any incompatibilities data is not available.

Advice on general occupational hygiene

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

7.2 Storage

Conditions for safe storage

P233-Keep container tightly closed.
P235 + P410-Keep cool. Protect from sunlight.
P401-Store in accordance with local/national regulation.

Container and packaging materials for safe handling

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

ACGIH

(Hydrogen peroxide)
TWA: 1ppm (Eye, URT & 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

(Hydrogen peroxide)
TWA: 1ppm, 1.4mg/m3

NIOSH-REL

(Hydrogen peroxide)
TWA: 1ppm

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

Hand protection

Wear protective gloves.

Eye protection

Wear eye/face protection.

Skin and body protection

Wear protective clothing.

Section 9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical state: Liquid

Color: Clear

Odor: Moderate odor

Odor threshold data is not available.

Melting point/Freezing point data is not available.

Boiling point or initial boiling point data is not available.

Boiling range data is not available.

Flammability data is not available.

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

Flash point data is not available.

Auto-ignition temperature data is not available.

Decomposition temperature data is not available.

pH 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

Acute toxicity (Oral)

[Table 3 of Annex VI to the CLP Regulations]
(Hydrogen peroxide)
Category 4
Acute toxicity (Dermal)
[Table 3 of Annex VI to the CLP Regulations]
(Triethylenetetramine)
Category 4
Acute toxicity (Inhalation)
[Table 3 of Annex VI to the CLP Regulations]
(Hydrogen peroxide)
Category 4
Irritant properties
Skin corrosion/irritation
[Table 3 of Annex VI to the CLP Regulations]
(Triethylenetetramine)
Category 1B
(Hydrogen peroxide)
Category 1A
Serious eye damage/irritation data is not available.
Sensitization
Skin sensitization
[Table 3 of Annex VI to the CLP Regulations]
(Triethylenetetramine)
Category 1
Mutagenic effects data is not available.
Carcinogenicity
[IARC]
(Hydrogen peroxide)
Group 3 : Not classifiable as to its carcinogenicity to humans
[ACGIH]
(Hydrogen peroxide)
A3: Confirmed Animal Carcinogen with Unknown Relevance to Humans
Teratogenic effects data is not available.
Reproductive toxicity data is not available.
Specific target organ toxicity (STOT)
STOT-single exposure
[Table 3 of Annex VI to the CLP Regulations]
(Hydrogen peroxide)
Category 3 (Respiratory tract irritation)
STOT-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
Aquatic toxicity
Hazardous to the aquatic environment, long-term (chronic)
[Table 3 of Annex VI to the CLP Regulations]
(Triethylenetetramine)
Category 3
Water solubility
(Triethylenetetramine)

not poorly water-soluble (4770000 mg/L) (source: NITE)
(Hydrogen peroxide)
miscible (source: ICSC, 2018)

12.2 Persistence and degradability
(Hydrogen peroxide)
Rapidly degradable (source: NITE)

12.3 Bioaccumulative potential
(Triethylenetetramine)
log Kow: -2.65 (source: NITE)
(Hydrogen peroxide)
log Pow: -1.36 (source: ICSC, 2018)

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

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

13.1 Waste treatment methods
P273-Avoid release to the environment.
P501-Dispose of contents/container in accordance with local/national regulation.

Contaminated packing
Dispose of container after using the contents completely.

Section 14. Transport Information

UN No., UN CLASS
14.1 UN Number or ID Number : Not regulated
14.2 UN Proper Shipping Name : Not regulated
14.3 Class or division (Transport hazard class) : Not regulated
14.4 Packing group : Not regulated

ADR (European Agreement concerning the International Carriage of Dangerous Goods by Road)
14.1 UN Number or ID Number : Not regulated
14.2 UN Proper Shipping Name : Not regulated
14.3 Class or division (Transport hazard class) : Not regulated
14.4 Packing group : Not regulated

ADN (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
14.1 UN Number or ID Number : Not regulated
14.2 UN Proper Shipping Name : Not regulated
14.3 Class or division (Transport hazard class) : Not regulated
14.4 Packing group : Not regulated

RID (Regulation concerning the International Carriage of Dangerous goods by Rail)
14.1 UN Number or ID Number : Not regulated
14.2 UN Proper Shipping Name : Not regulated
14.3 Class or division (Transport hazard class) : Not regulated
14.4 Packing group : Not regulated

IMDG Code (International Maritime Dangerous Goods Regulations)

14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name : Not regulated

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

14.4 Packing group : Not regulated

IATA (Dangerous Goods Regulations)

14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name : Not regulated

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

14.4 Packing group : Not regulated

14.5 Environmental hazards

Marine pollutants (yes/no) : no

14.6 Special precautions for user

Special precautions for user is not applicable.

14.7 Maritime transport in bulk according to IMO instruments

MARPOL Annex II – Noxious Liquid Substances

Noxious Liquid Substances ; Cat. Y

Triethylenetetramine

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

Triethylenetetramine; Hydrogen peroxide; Water; 3,3',5,5'-Tetramethylbenzidine

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

Ox. Liq. 1, H271 – Oxidising Liquids, Category 1: H271 May cause fire or explosion; strong oxidiser

Ox. Liq. 2, H272 – Oxidising Liquids, Category 2: H272 May intensify fire; oxidiser

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

Acute Tox. 4, H312 – Acute toxicity, Category 4: H312 Harmful in contact with skin

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

Skin Sens. 1, H317 – Skin sensitization, Category 1: H317 May cause an allergic skin reaction

Eye Dam. 1, H318 – Serious eye damage/eye irritation, Category 1: H318 Causes serious eye damage

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

Acute Tox. 4, H332 – Acute toxicity, Category 4: H332 Harmful if inhaled

STOT SE 3, H335 – STOT – single exposure, Category 3, Respiratory tract irritation: H335 May cause respiratory irritation.
Aquatic Chronic 3, H412 – Hazardous to the aquatic environment, long-term (chronic), Category 3: H412 Harmful to aquatic life with long lasting effects

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 (66th Edition) 2025
2024 EMERGENCY RESPONSE GUIDEBOOK (US DOT)
2025 TLVs and BEIs. (ACGIH)
Supplier's data/information
OSHA Hazard Communication Standard – 2024 (29 CFR 1910.1200)
Chemicals safety data management system "GHS Assistant" Version 4.35 (https://www.asahi-ghs.com/)

Abbreviations and acronyms

irr – irritation; URT – upper respiratory tract

Revision information

First edition

General Disclaimer

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.
The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.