

Safety Data Sheet



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JP27751 Human Tenascin-C Large(FNIII-C) ELISA

Distributed by: IBL International GmbH
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Always there for you



27751 Human Tenascin-C Large(FNIII-C)Assay Kit - IBL

SDS for the following enclosed components

- Labeled antibody conc.
- EIA Buffer
- Solution for Labeled antibody
- Wash buffer Conc.
- Chromogen
- Stop solution

Version information

Issue date: 21-Nov-2025	Version: 1 (replaces version—)	Revision: —
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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

"Labeled antibody conc.", "EIA Buffer", "Solution for Labeled antibody" and "Wash buffer Conc." for the product listed on the front cover.

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

Research Use Only.

Uses advised against

All other uses not recommended above.

1.3. Details of the supplier of the safety data sheet**Manufacturer/Supplier**

Immuno-Biological Laboratories Co., Ltd.

1091-1 Naka, Fujioka-shi, Gunma 375-0005, JAPAN

TEL: +81 (0)274-50-8666 FAX: +81 (0)274-23-6055

E-Mail: do-ibl@ibl-japan.co.jp

Responsible person for that member state

Not applicable.

1.4. Emergency telephone number**Telephone number:**

+81 (0)274-50-8666 (available only during business hours from Monday – Friday 8:00 – 12:00 and 13:00 – 17:00) Except public holidays (JST)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008 [CLP]**

Skin Sens. 1A; H317

Full text of H-statements: see section 16.

The most important adverse physical, human health and environmental effects

May cause an allergic skin reaction.

2.2. Label elements**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard pictograms: GHS07



Signal word: Warning

Hazard statements: H317 - May cause an allergic skin reaction.

Precautionary statements:

- P261 - Avoid breathing mist, vapours, spray.
- P271 - Use only outdoors or in a well-ventilated area.
- P280 - Wear protective gloves.
- P302+P352 - IF ON SKIN: Wash with plenty of water.
- P321 – Specific treatment: see section 4.
- P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
- P362+P364 - Take off contaminated clothing and wash it before reuse.
- P501 – Disposal considerations: see section 13.

2.3. Other hazards

This mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

Product identifier Substance name	CAS RN®	Conc.	Specific Conc. Limits, M-factors and ATE
	EC Index-No.		
Labeled antibody conc. EIA Buffer Solution for Labeled antibody Wash buffer Conc.	55965-84-9	Less than 0.05 v/v %	Skin Corr. 1C; H314: C ≥ 0,6 % Skin Irrit. 2; H315: 0,06 % ≤ C < 0,6 % Eye Dam. 1; H318: C ≥ 0,6 % Eye Irrit. 2; H319: 0,06 % ≤ C < 0,6 % Skin Sens. 1A; H317: C ≥ 0,0015 % M = 100 M = 100 EUH071
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) Note B:	613-167-00-5		

※The above "Conc." values are not product specifications.

Note B: Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: '... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis. Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures**4.1. Description of first aid measures****After inhalation**

Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a doctor.

After skin contact

Wash skin with plenty of water. Cover wounds with sterile bandage. Get medical advice if skin irritation persists.

After eye contact

Rinse immediately with plenty of water and seek medical advice.

After ingestion

Rinse mouth out with water. Drink plenty of water. Do NOT induce vomiting. Call a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Respiratory difficulties after inhalation. Skin irritation after skin contact. eye irritation after eye contact. harmful after ingestion.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing agents**

Use fire extinguishing methods suitable to surrounding conditions.

Unsuitable extinguishing media

For this mixture no limitations of extinguishing agents are given.

5.2. Special hazards arising from the substance or mixture

Nature of decomposition products not known.

Not combustible.

Ambient fire may liberate hazardous vapours.

5.3. Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Protective equipment : Concerning personal protective equipment to use, see section 8.

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing mist, vapours, spray.

For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment.

For further information refer to section 8: "Exposure controls/person."

6.2. Environmental precautions

Do not let product enter drains.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding materials, e.g.: sand, saw dust. Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.

6.4. Reference to other sections

See section 8 for information on personal protection equipment. See section 13 for disposal information.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Recommendations**

Ensure good ventilation / exhaustion at the workplace. Prevent formation of aerosols. Avoid contact with eyes and skin. Wear personal protective equipment.

Advice on general occupational hygiene

Do not eat, drink or smoke in work areas. Wash hands after handling the product. Remove contaminated clothing and protective equipment before entering eating areas.

7.2. Conditions for safe storage, including any incompatibilities

Store in dry, cool and well-ventilated areas. See instructions for use for more information.

7.3. Specific end use(s)

Research Use Only.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

The product does not contain any relevant quantities of materials with critical value that have to be monitored at the workplace.

8.2. Exposure controls**Appropriate engineering controls:**

Ensure good ventilation of the workstation. Keep the workspace clean and tidy as much as possible.

Personal protective equipment:

Eye/face protection: Use safety glasses for eye protection.

Skin protection: Wear suitable protective clothing or a lab coat and gloves.
 Respiratory protection: No additional information available.
 Thermal hazards: No additional information available.

Environmental exposure controls:

See section 13.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Colour	Colourless
Odour	Odourless
Melting point/freezing point	No data available
Boiling point or initial boiling point and boiling range	No data available
Flammability	No data available
Lower and upper explosion limit	No data available
Flash point	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
pH	Neutral
Kinematic viscosity	No data available
Solubility	Fully miscible with water.
Partition coefficient n-octanol/water (log value)	Not applicable
Vapour pressure	No data available
Density and/or relative density	No data available
Relative vapour density	No data available
Particle characteristics	Not applicable

9.2. Other information

No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 [CLP]

Acute toxicity	No data available
Skin corrosion/irritation	No data available
Serious eye damage/irritation	No data available
Respiratory sensitisation	No data available
Skin sensitisation	Mixture may produce an allergic reaction.
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
STOT-single exposure	No data available
STOT-repeated exposure	No data available
Aspiration hazard	No data available

11.2. Information on other hazards

No data available.

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity	No data available
Chronic aquatic toxicity	No data available

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6. Endocrine disrupting properties

No data available.

12.7. Other adverse effects

No data available.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Disposal must be done according to applicable local, state, and federal regulations.
Do not dispose of with domestic waste. Do not discharge into drains or the environment.
Dirty containers cannot be handled as normal waste.

SECTION 14: Transport information**14.1. UN number or ID number**

ADR/RID, IMDG and IATA: Not applicable.

14.2. UN proper shipping name

ADR/RID, IMDG and IATA: Not applicable.

14.3. Transport hazard class(es)

ADR/RID, IMDG and IATA: Not applicable.

14.4. Packing group

ADR/RID, IMDG and IATA: Not applicable.

14.5. Environmental hazards

ADR/RID, IMDG and IATA: Not applicable.

14.6. Special precautions for user

No data available.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. [REACH]

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information
Indication of changes

Section	Change item	Change	Comment
—	—	—	Newly Established

The safety data sheet is 1st version. (Newly Established).

Full text of H and EUH Statements

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

EUH071 Corrosive to the respiratory tract

Abbreviations and acronyms

ATE	Acute Toxicity Estimates
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
IATA	The International Air Transport Association
IMDG	International Maritime Dangerous Goods
IMO	The International Maritime Organization
JST	Japanese Standard Time (UTC + 9)
PBT	Persistent Bioaccumulative and Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation; (EC) No 1907/2006
RID	The Regulation concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative

References and sources

- REACH: Regulation (EC) No 1907/2006
- CLP: Regulation (EC) No 1272/2008

List of relevant statements

Statement	Full text
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C

Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1A	Skin sensitisation, Category 1A

Training advice

Normal use of this product shall imply use in accordance with the instructions on the data sheet and packaging.

This SDS is a work created by Immuno-Biological Laboratories Co., Ltd. (located in Japan) in accordance with REACH and CLP regulations. The contents are for use when the product is used appropriately for the relevant identified uses. If the product is used for purposes other than the relevant identified uses or if it is handled in a special manner, please implement safety measures appropriate to the circumstances of use.

This SDS was created based on the latest information at the time of its creation but does not include all information. All products may have unknown hazards, so please handle with care.

CAS RN® is a registered trademark of American Chemical Society.

(End of safety data sheet.)

Version information

Issue date: 21-Nov-2025	Version: 1 (replaces version—)	Revision: —
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

"Chromogen" for the products listed on the front cover.

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

Relevant identified uses

Research Use Only.

Uses advised against

All other uses not recommended above

1.3. Details of the supplier of the safety data sheet

Manufacturer/Supplier

Immuno-Biological Laboratories Co., Ltd.
1091-1 Naka, Fujioka-shi, Gunma 375-0005, JAPAN
TEL: +81 (0)274-50-8666 FAX: +81 (0)274-23-6055
E-Mail: do-ibl@ibl-japan.co.jp

Responsible person for that member state

Not applicable.

1.4. Emergency telephone number

Telephone number:

+81 (0)274-50-8666 (available only during business hours from Monday – Friday 8:00 – 12:00 and 13:00 – 17:00) Except public holidays (JST)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

The product is not classified according to the CLP regulation.

The most important adverse physical, human health and environmental effects

No data available.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]

Hazard pictogram: none.

Signal word: none.

Hazard statements: none.

Precautionary statements: none.

2.3. Other hazards

This mixture contains no components considered to be either persistent, bioaccumulative and

toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

Contains no declarable substances.

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a doctor.

After skin contact

Wash skin with plenty of water. Cover wounds with sterile bandage. Get medical advice if skin irritation persists.

After eye contact

Rinse immediately with plenty of water and seek medical advice. Get medical advice if eye irritation persists.

After ingestion

Rinse mouth out with water. Drink plenty of water. Keep under surveillance. Call a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Skin irritation after skin contact. Eye irritation after eye contact. Gastrointestinal irritation after ingestion.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing agents

Use fire extinguishing methods suitable to surrounding conditions.

Unsuitable extinguishing media

For this mixture no limitations of extinguishing agents are given.

5.2. Special hazards arising from the substance or mixture

Nature of decomposition products not known.

Not combustible.
Ambient fire may liberate hazardous vapours.

5.3. Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Concerning personal protective equipment to use, see section 8.

For emergency responders

Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/person."

6.2. Environmental precautions

Do not let product enter drains.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding materials, e.g.: sand, saw dust. Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.

6.4. Reference to other sections

See section 8 for information on personal protection equipment. See section 13 for disposal information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Recommendations

Ensure good ventilation / exhaustion at the workplace. Prevent formation of aerosols. Avoid contact with eyes and skin. Wear personal protective equipment.

Advice on general occupational hygiene

Do not eat, drink or smoke in work areas. Wash hands after handling the product. Remove contaminated clothing and protective equipment before entering eating areas.

7.2. Conditions for safe storage, including any incompatibilities

Store in dry, cool and well-ventilated areas. See instructions for use for more information.

7.3. Specific end use(s)

Research Use Only.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The product does not contain any relevant quantities of materials with critical value that have to be monitored at the workplace.

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the workstation. Keep the workspace clean and tidy as much as possible.

Personal protective equipment:

Eye/face protection: Use safety glasses for eye protection.

Skin protection: Wear suitable protective clothing or a lab coat and gloves.

Respiratory protection: No additional information available.

Thermal hazards: No additional information available.

Environmental exposure controls:

See section 13.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Colour	Colourless
Odour	Odourless
Melting point/freezing point	No data available
Boiling point or initial boiling point and boiling range	~100°C
Flammability	No data available
Lower and upper explosion limit	No data available
Flash point	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
pH	Neutral
Kinematic viscosity	No data available
Solubility	Completely soluble in water
Partition coefficient n-octanol/water (log value)	Not applicable
Vapour pressure	~2.3 hPa, 20°C
Density and/or relative density	~1 g/cm ³
Particle characteristics	Not applicable

9.2. Other information

No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Lightning, excessive heating and freezing.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 [CLP]

Acute toxicity	No data available
Skin corrosion/irritation	No data available
Serious eye damage/irritation	No data available
Respiratory sensitisation	No data available
Skin sensitisation	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
STOT-single exposure	No data available
STOT-repeated exposure	No data available
Aspiration hazard	No data available

11.2. Information on other hazards

No additional information available.

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity	No data available
Chronic aquatic toxicity	No data available

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6. Endocrine disrupting properties

No data available.

12.7. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal must be done according to applicable local, state, and federal regulations.
Do not dispose of with domestic waste. Do not discharge into drains or the environment.
Dirty containers cannot be handled as normal waste.

SECTION 14: Transport information

14.1. UN number or ID number

ADR/RID, IMDG and IATA: Not applicable.

14.2. UN proper shipping name

ADR/RID, IMDG and IATA: Not applicable.

14.3. Transport hazard class(es)

ADR/RID, IMDG and IATA: Not applicable.

14.4. Packing group

ADR/RID, IMDG and IATA: Not applicable.

14.5. Environmental hazards

ADR/RID, IMDG and IATA: Not applicable.

14.6. Special precautions for user

No data available.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. [REACH]

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Indication of changes

Section	Change item	Change	Comment
—	—	—	Newly Established

The safety data sheet is 1st version. (Newly Established).

Full text of H and EUH Statements

No H and EUH statements are used on this SDS.

Abbreviations and acronyms

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
IATA	The International Air Transport Association
IMDG	International Maritime Dangerous Goods
IMO	The International Maritime Organization
JST	Japanese Standard Time (UTC + 9)
PBT	Persistent Bioaccumulative and Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation; (EC) No 1907/2006
RID	The Regulation concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative

References and sources

- REACH: Regulation (EC) No 1907/2006

- CLP: Regulation (EC) No 1272/2008

List of relevant statements

No relevant statements are written out.

Training advice

Normal use of this product shall imply use in accordance with the instructions on the data sheet and packaging.

This SDS is a work created by Immuno-Biological Laboratories Co., Ltd (located in Japan) in accordance with REACH and CLP regulation. The contents are for use when the product is used appropriately for the relevant identified uses. If the product is used for purposes other than the relevant identified uses or if it is handled in a special manner, please implement safety measures appropriate to the circumstances of use.

This SDS was created based on the latest information at the time of its creation but does not include all information. All products may have unknown hazards, so please handle with care.

(End of safety data sheet.)

Version information

Issue date: 21-Nov-2025	Version: 1 (replaces version—)	Revision: —
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

"Stop solution" for the products listed on the front cover.

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

Relevant identified uses

Research Use Only.

Uses advised against

All other uses not recommended above.

1.3. Details of the supplier of the safety data sheet

Manufacturer/Supplier

Immuno-Biological Laboratories Co., Ltd.

1091-1 Naka, Fujioka-shi, Gunma 375-0005, JAPAN

TEL: +81 (0)274-50-8666 FAX: +81 (0)274-23-6055

E-Mail: do-ibl@ibl-japan.co.jp

Responsible person for that member state

Not applicable.

1.4. Emergency telephone number

Telephone number:

+81 (0)274-50-8666 (available only during business hours from Monday – Friday 8:00 – 12:00 and 13:00 – 17:00) Except public holidays (JST)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

The product is not classified according to the CLP regulation.

The most important adverse physical, human health and environmental effects

No data available.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]

Hazard pictogram: none.

Signal word: none.

Hazard statements: none.

Precautionary statements: none.

2.3. Other hazards

This mixture contains no components considered to be either persistent, bioaccumulative and

toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

Product identifier Substance name	CAS RN®	Conc.	Specific Conc. Limits, M-factors and ATE
	EC Index-No.		
Stop solution	7664-93-9	Less than 5 v/v %	Skin Corr. 1A: H314 C ≥ 15 % Skin Irrit. 2: H315 5 % ≤ C < 15 % Eye Irrit. 2: H319 5 % ≤ C < 15 %
Sulphuric acid	231-639-5		

※The above "Conc." values are not product specifications.

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a doctor.

After skin contact

Wash skin with plenty of water. Cover wounds with sterile bandage. Get medical advice if skin irritation persists.

After eye contact

Rinse immediately with plenty of water and seek medical advice.

After ingestion

Rinse mouth out with water. Drink plenty of water. Do NOT induce vomiting. Call a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Respiratory difficulties after inhalation. Skin irritation after skin contact. eye irritation after eye contact. harmful after ingestion.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing agents

Use fire extinguishing methods suitable to surrounding conditions.

Unsuitable extinguishing media

For this mixture no limitations of extinguishing agents are given.

5.2. Special hazards arising from the substance or mixture

Release of harmful / irritant gases / vapours, sulphur oxides.

5.3. Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Protective equipment : Concerning personal protective equipment to use, see section 8.

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing mist, vapours, spray.

For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment.

For further information refer to section 8: "Exposure controls/person.

6.2. Environmental precautions

Do not let product enter drains.

Inform respective authorities in case of seepage into water course or sewage system.

Dilute with plenty of water.

Do not allow to enter sewers / surface or ground water.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding materials, e.g.: sand, saw dust. Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.

6.4. Reference to other sections

See section 8 for information on personal protection equipment. See section 13 for disposal information.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Recommendations**

Ensure good ventilation / exhaustion at the workplace. Prevent formation of aerosols. Avoid contact with eyes and skin. Wear personal protective equipment.

Advice on general occupational hygiene

Do not eat, drink or smoke in work areas. Wash hands after handling the product. Remove contaminated clothing and protective equipment before entering eating areas.

7.2. Conditions for safe storage, including any incompatibilities

Store in dry, cool and well-ventilated areas. See instructions for use for more information.

7.3. Specific end use(s)

Research Use Only.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The product does not contain any relevant quantities of materials with critical value that have to be monitored at the workplace.

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the workstation. Keep the workspace clean and tidy as much as possible.

Personal protective equipment:

Eye/face protection: Use safety glasses for eye protection.

Skin protection: Wear suitable protective clothing or a lab coat and gloves.

Respiratory protection: No additional information available.

Thermal hazards: No additional information available.

Environmental exposure controls:

See section 13.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Colour	Colourless
Odour	Odourless
Melting point/freezing point	No data available
Boiling point or initial boiling point and boiling range	No data available
Flammability	No data available
Lower and upper explosion limit	No data available
Flash point	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
pH	≤2 (Strong acidity)
Kinematic viscosity	No data available
Solubility	Fully miscible with water.
Partition coefficient n-octanol/water	Not applicable

(log value)	
Vapour pressure	No data available
Density and/or relative density	No data available
Relative vapour density	No data available
Particle characteristics	Not applicable

9.2. Other information

Information with regard to physical hazard classes

This product is corrosive to metals.

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

10.3. Possibility of hazardous reactions

Reacts violently with metals.

10.4. Conditions to avoid

Heat.

10.5. Incompatible materials

Metals.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should be produced.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 [CLP]

Acute toxicity	Not classified (Based on available data, the classification criteria are not met.)
Skin corrosion/irritation	Not classified (Based on available data, the classification criteria are not met.)
Serious eye damage/irritation	Not classified (Based on available data, the classification criteria are not met.)
Respiratory or skin sensitisation	Not classified (Based on available data, the classification criteria are not met.)
Germ cell mutagenicity	Not classified (Based on available data, the classification criteria are not met.)

Carcinogenicity	Not classified (Based on available data, the classification criteria are not met.)
Reproductive toxicity	Not classified (Based on available data, the classification criteria are not met.)
STOT-single exposure	Not classified (Based on available data, the classification criteria are not met.)
STOT-repeated exposure	Not classified (Based on available data, the classification criteria are not met.)
Aspiration hazard	Not classified (Based on available data, the classification criteria are not met.)

11.2. Information on other hazards

Repeated or prolonged skin contact may cause irritation (strong acidity).

Slight eye irritant upon direct contact (strong acidity).

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity	Not classified (Based on available data, the classification criteria are not met.)
Chronic aquatic toxicity	Not classified (Based on available data, the classification criteria are not met.)

12.2. Persistence and degradability

Not applicable for inorganic substances.

12.3. Bioaccumulative potential

Not applicable for inorganic substances.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6. Endocrine disrupting properties

No data available.

12.7. Other adverse effects

slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal must be done according to applicable local, state, and federal regulations.

Do not dispose of with domestic waste. Do not discharge into drains or the environment.

Dirty containers cannot be handled as normal waste.

SECTION 14: Transport information

14.1. UN number or ID number

ADR/RID, IMDG and IATA: Not applicable.

14.2. UN proper shipping name

ADR/RID, IMDG and IATA: Not applicable.

14.3. Transport hazard class(es)

ADR/RID, IMDG and IATA: Not applicable.

14.4. Packing group

ADR/RID, IMDG and IATA: Not applicable.

14.5. Environmental hazards

ADR/RID, IMDG and IATA: Not applicable.

14.6. Special precautions for user

No data available.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information

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

This material safety data sheet complies with the requirements of Regulation (EC) No.

1907/2006. [REACH]

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Indication of changes

Section	Change item	Change	Comment
—	—	—	Newly Established

The safety data sheet is 1st version. (Newly Established).

Full text of H and EUH Statements

No H and EUH statements are used on this SDS.

Abbreviations and acronyms

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
IATA	The International Air Transport Association
IMDG	International Maritime Dangerous Goods
IMO	The International Maritime Organization
JST	Japanese Standard Time (UTC + 9)
PBT	Persistent Bioaccumulative and Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation; (EC) No 1907/2006
RID	The Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
SVHC	Substances of Very High Concern
vPvB	Very Persistent and Very Bioaccumulative

References and sources

- REACH: Regulation (EC) No 1907/2006
- CLP: Regulation (EC) No 1272/2008

List of relevant statements

Statement	Full text
Eye Irrit. 2	Serious eye damage / eye irritation, Category 2
Skin Corr. 1A	Skin corrosion / irritation, Category 1, sub-Category 1A
Skin Irrit. 2	Skin corrosion / irritation, Category 2

Training advice

Normal use of this product shall imply use in accordance with the instructions on the data sheet and packaging.

This SDS is a work created by Immuno-Biological Laboratories Co., Ltd (located in Japan) in accordance with REACH and CLP regulation. The contents are for use when the product is used appropriately for the recommended purposes. If the product is used for purposes other than the recommended purposes or if it is handled in a special manner, please implement safety measures appropriate to the circumstances of use.

This SDS was created based on the latest information at the time of its creation but does not include all information. All products may have unknown hazards, so please handle with care.

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(End of safety data sheet.)