Mouse IL-18 ELISA Kit Revised: 02/18/2021, 1/28



SAFETY DATA SHEET

1. Identification

Product identifier Mouse IL-18 ELISA Kit

Mouse IL-18 calibrator (lyophilized)

Other means of identification

Product code 7625

Recommended use Research use only. **Recommended restrictions** None known.

Manufacturer / Importer / Supplier / Distributor information

Medical & Biological Laboratories (MBL) Co., Ltd. Manufacturer and 4-5-3 Sakae, Naka-ku, Nagoya, Aichi 460-0008, Japan Supplier (Asia) +81-52-238-1901 (Monday to Friday, 9 AM to 5 PM JST) Telephone number

+81-52-238-1440 Fax E-mail sds-support@mbl.co.jp

URL http://www.mbl.co.jp/e/index.html

SDS Support Contact person

Supplier MBL International Corporation

15A Constitution Way, Woburn, MA 01801, USA

Telephone number +1-800-200-5459, option 3

+1-781-939-6963 Fax E-mail tech@mblintl.com http://www.mblintl.com/ **URL Technical Service Contact person**

2. Hazard(s) identification

Physical hazards Not classified. **Health hazards** Not classified. Not classified. OSHA hazard(s)

Label elements

None. **Hazard symbol** Signal word None. **Hazard statement** None.

Precautionary statement

Observe good industrial hygiene practices. Prevention

Wash thoroughly after handling. Response

Storage None. **Disposal** None. Hazard(s) not otherwise None.

classified (HNOC)

3. Composition/Information on ingredients

Mixtures

The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.

4. First-aid measures

Inhalation Move injured person into fresh air and keep person calm under observation. Get medical

attention if any discomfort continues.

Skin contact Wash contact areas with soap and water. Get medical attention if irritation develops or

Do not rub eye. Rinse the eye with water immediately. Make sure to remove any contact Eye contact

lenses from the eyes before rinsing. Get medical attention if irritation develops and persists.

Mouse IL-18 ELISA Kit Revised: 02/18/2021, 2/28

Rinse mouth thoroughly if dust is ingested. Get medical attention if any discomfort continues. Ingestion

Most important symptoms/ effects, acute and delayed Indication of immediate

Dry skin.

medical attention and special

Treat symptomatically.

treatment needed

General information Get medical attention if any discomfort develops.

5. Fire-fighting measures

Suitable extinguishing media Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

None known.

media

Specific hazards arising from None known.

the chemical

and precautions for

Special protective equipment Self-contained breathing apparatus and full protective clothing should be worn when fighting chemical fires. Selection of respiratory protection for firefighting: follow the general fire

firefighters

precautions indicated in the workplace.

Fire-fighting equipment/

instructions

Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid prolonged and repeated contact. Wear suitable protective clothing. For personal protection, see Section 8 of the SDS.

Methods and materials for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal. After removal, flush contaminated area thoroughly with water. Never return spills to original containers for

Environmental precautions

Prevent further leakage or spillage if safe to do so.

7. Handling and storage

Precautions for safe handling Avoid prolonged and repeated contact. Wear appropriate personal protective equipment.

Observe good industrial hygiene practices.

Conditions for safe storage,

including any incompatibilities

controls

Keep container closed.

8. Exposure controls/personal protection

Occupational exposure limits No exposure limits noted for ingredient(s).

Biological limit values No biological exposure limits noted for the ingredient(s).

Appropriate engineering

Provide adequate ventilation. Minimize dust generation and accumulation. Provide easy

access to water supply and eye wash facilities.

Individual protection measures, such as personal protective equipment

Eye/face protection Skin protection

If risk of splashing, wear safety goggles or face shield.

Hand protection

Wear protective gloves. Frequent change is advisable. Suitable gloves can be recommended

by the glove supplier.

Wear protective gloves. Wear appropriate clothing to prevent repeated or prolonged skin

contact.

Respiratory protection

No protection is ordinarily required under normal conditions of use.

Thermal hazards General hygiene

Other

Wear appropriate thermal protective clothing, when necessary.

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and considerations

protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Mouse IL-18 ELISA Kit Revised: 02/18/2021, 3/28

Solid. **Physical state Form** Powder. Color White. Odorless. Odor **Odor threshold** Not available. Not available. На Melting point/freezing point Not available. Initial boiling point and Not available.

boiling range

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit Not available.

- lower (%)

Flammability limit Not available.

- upper (%)

Vapor pressureNot available.Vapor densityNot available.Relative densityNot available.Solubility(ies)Soluble in water.Partition coefficientNot available.

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

10. Stability and reactivity

Reactivity The product is stable and non reactive under normal conditions of use, storage and

Chemical stability Stable at normal conditions.

Possibility of hazardous

reactions

None known.

Conditions to avoid None known.

Incompatible materials None known.

Hazardous decomposition No hazard in normal industrial use.

products

11. Toxicological information

Information on likely routes of exposure

Ingestion Large quantities: May cause discomfort if swallowed.

Inhalation Dust may irritate respiratory system.

Skin contact Prolonged contact may cause dryness of the skin. **Eye contact** Direct contact with eyes may cause temporary irritation.

Symptoms related to the Dry skin.

physical, chemical and toxicological characteristics

Information on toxicological effects

Acute toxicity

Large quantities: May cause discomfort if swallowed.

Skin corrosion/irritation

Prolonged contact may cause dryness of the skin.

Direct contact with eyes may cause temporary irritation.

irritation

Respiratory sensitization
Skin sensitization
Not a skin sensitizer.
Germ cell mutagenicity
No data available.
Carcinogenicity
No data available.
Reproductive toxicity
No data available.

Mouse IL-18 ELISA Kit Revised: 02/18/2021, 4/28

Specific target organ toxicity No data available.

- single exposure

Specific target organ toxicity No data available.

- repeated exposure

Aspiration hazard No data available.

12. Ecological information

The product components are not classified as environmentally hazardous. However, this **Ecotoxicity**

does not exclude the possibility that large or frequent spills have a harmful or damaging

effect on the environment.

Persistence and degradability No data available. **Bioaccumulative potential** No data available. Mobility in soil No data available.

Mobility in general The product is water soluble and may spread in water systems.

Other adverse effects No data available.

13. Disposal considerations

Dispose of in accordance with all applicable regulations. Do not discharge into drains, water **Disposal instructions**

courses or onto the ground.

Local disposal regulations Dispose of in accordance with local regulations.

Hazardous waste code Not regulated.

Waste from residues / unused Dispose of in accordance with local regulations.

products

Contaminated packaging Dispose of in same manner as unused product.

14. Transport information

DOT Not regulated as dangerous goods. **IATA** Not regulated as dangerous goods. **IMDG** Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78

Not applicable.

and the IBC Code

15. Regulatory information

US federal regulations This product is not hazardous according to OSHA 29CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed. Not listed. **CERCLA Hazardous Substance List (40 CFR 302.4)**

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - No **Hazard categories**

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance No SARA 311/312 Hazardous chemical Nο

SARA 313 (TRI reporting) Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated. Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated.

Safe Drinking Water Act (SDWA) Not regulated. Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR Not listed.

1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Mouse IL-18 ELISA Kit Revised: 02/18/2021, 5/28

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21

CFR 1310.12(c))

Not regulated.

DEA Exempt Chemical Mixtures Code Number Food and Drug Administration (FDA)

Not regulated.

Not regulated.

US state regulationsThis product does not contain a chemical known to the State of California to cause cancer,

birth defects or other reproductive harm.

Massachusetts RTK - Substance ListNot regulated.New Jersey Worker and Community Right-to-Know ActNot regulated.Pennsylvania RTK - Hazardous SubstancesNot regulated.Rhode Island RTKNot regulated.California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT)Not listed.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	EC Inventory	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PIC	CCS) Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

^{*}A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information

 Issue date
 08/27/2014

 Revision date
 02/18/2021

 Version
 10.1

Further information Not available.

Disclaimer This information is provided without warranty. The information is believed to be correct. This

information should be used to make an independent determination of the methods to

safeguard workers and the environment.

Mouse IL-18 ELISA Kit Revised: 02/18/2021, 6/28



SAFETY DATA SHEET

1. Identification

Product identifier Mouse IL-18 ELISA Kit

Microwell strips coated with anti-mouse IL-18 antibody

Other means of identification

Product code 7625

Recommended use Research use only. **Recommended restrictions** None known.

Manufacturer / Importer / Supplier / Distributor information

Manufacturer andMedical & Biological Laboratories (MBL) Co., Ltd.Supplier (Asia)4-5-3 Sakae, Naka-ku, Nagoya, Aichi 460-0008, JapanTelephone number+81-52-238-1901 (Monday to Friday, 9 AM to 5 PM JST)

Fax +81-52-238-1440 **E-mail** sds-support@mbl.co.jp

URL http://www.mbl.co.jp/e/index.html

Contact person SDS Support

Supplier MBL International Corporation

15A Constitution Way, Woburn, MA 01801, USA

Telephone number +1-800-200-5459, option 3

Fax +1-781-939-6963

E-mail tech@mblintl.com

URL http://www.mblintl.com/

Contact person Technical Service

2. Hazard(s) identification

Physical hazards Not classified.
Health hazards Not classified.
OSHA hazard(s) Not classified.

Label elements

Hazard symbolNone.Signal wordNone.Hazard statementNone.

Precautionary statement

Prevention Observe good industrial hygiene practices.

Response Wash thoroughly after handling.

Storage None.

Disposal None.

Hazard(s) not otherwise None.

classified (HNOC)

NOHE

3. Composition/Information on ingredients

Mixtures

The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.

4. First-aid measures

Inhalation Move injured person into fresh air and keep person calm under observation. Get medical

attention if any discomfort continues.

Skin contact Wash contact areas with soap and water. Get medical attention if irritation develops or

persists.

Eye contact Do not rub eye. Rinse the eye with water immediately. Make sure to remove any contact

lenses from the eyes before rinsing. Get medical attention if irritation develops and persists.

Mouse IL-18 ELISA Kit Revised: 02/18/2021, 7/28

Rinse mouth thoroughly if dust is ingested. Get medical attention if any discomfort continues. Ingestion

Most important symptoms/ effects, acute and delayed Indication of immediate

Dry skin.

medical attention and special

Treat symptomatically.

treatment needed

General information Get medical attention if any discomfort develops.

5. Fire-fighting measures

Suitable extinguishing media Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

None known.

media

Specific hazards arising from None known.

the chemical

and precautions for firefighters

Special protective equipment Self-contained breathing apparatus and full protective clothing should be worn when fighting chemical fires. Selection of respiratory protection for firefighting: follow the general fire

precautions indicated in the workplace.

Fire-fighting equipment/

instructions

Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid prolonged and repeated contact. Wear suitable protective clothing. For personal protection, see Section 8 of the SDS.

Methods and materials for

Sweep up or vacuum up spillage and collect in suitable container for disposal. After removal, flush contaminated area thoroughly with water. Never return spills to original containers for

containment and cleaning up

Environmental precautions

Prevent further leakage or spillage if safe to do so.

7. Handling and storage

Precautions for safe handling Avoid prolonged and repeated contact. Wear appropriate personal protective equipment.

Observe good industrial hygiene practices.

Conditions for safe storage, including any

incompatibilities

Keep container closed.

8. Exposure controls/personal protection

Occupational exposure limits No exposure limits noted for ingredient(s).

Biological limit values No biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls

Provide adequate ventilation.

Individual protection measures, such as personal protective equipment

Eye/face protection Skin protection

If risk of splashing, wear safety goggles or face shield.

Hand protection

Wear protective gloves. Frequent change is advisable. Suitable gloves can be recommended

by the glove supplier.

Other Wear protective gloves. Wear appropriate clothing to prevent repeated or prolonged skin

contact.

Respiratory protection

No protection is ordinarily required under normal conditions of use.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and

protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Mouse IL-18 ELISA Kit Revised: 02/18/2021, 8/28

Solid. **Physical state Form** Solid. Color Colorless. Odorless. Odor **Odor threshold** Not available. Not available. На Melting point/freezing point Not available. Initial boiling point and Not available.

boiling range

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit Not available.

- lower (%)

Flammability limit

Not available.

- upper (%)

Vapor pressureNot available.Vapor densityNot available.Relative densityNot available.Solubility(ies)Not available.Partition coefficientNot available.

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

10. Stability and reactivity

Reactivity The product is stable and non reactive under normal conditions of use, storage and

Chemical stability Stable at normal conditions.

Possibility of hazardous

reactions

None known.

Conditions to avoid None known.

Incompatible materials None known.

Hazardous decomposition No hazard in normal industrial use.

products

11. Toxicological information

Information on likely routes of exposure

Ingestion Large quantities: May cause discomfort if swallowed.

Inhalation Under normal conditions of intended use, this material is not expected to be an inhalation

hazard.

Skin contactProlonged contact may cause dryness of the skin.Eye contactDirect contact with eyes may cause temporary irritation.

Symptoms related to the Dry skin.

physical, chemical and toxicological characteristics

Information on toxicological effects

Acute toxicity

Large quantities: May cause discomfort if swallowed.

Skin corrosion/irritation

Prolonged contact may cause dryness of the skin.

Direct contact with eyes may cause temporary irritation.

irritation

Respiratory sensitization
Skin sensitization
No data available.
Not a skin sensitizer.
Germ cell mutagenicity
No data available.
Varcinogenicity
No data available.

Mouse IL-18 ELISA Kit Revised: 02/18/2021, 9/28

No data available. Reproductive toxicity Specific target organ toxicity No data available.

- single exposure

Specific target organ toxicity No data available.

- repeated exposure

Aspiration hazard No data available.

12. Ecological information

The product components are not classified as environmentally hazardous. However, this **Ecotoxicity**

does not exclude the possibility that large or frequent spills have a harmful or damaging

effect on the environment.

Persistence and degradability No data available. **Bioaccumulative potential** No data available. No data available. Mobility in soil

Mobility in general The product is water soluble and may spread in water systems.

Other adverse effects No data available.

13. Disposal considerations

Disposal instructions Dispose of in accordance with all applicable regulations. Do not discharge into drains, water

courses or onto the ground.

Dispose of in accordance with local regulations. Local disposal regulations

Hazardous waste code Not regulated.

Waste from residues / unused Dispose of in accordance with local regulations.

products

Contaminated packaging Dispose of in same manner as unused product.

14. Transport information

DOT Not regulated as dangerous goods. IATA Not regulated as dangerous goods. **IMDG** Not regulated as dangerous goods. Not applicable.

Transport in bulk according

to Annex II of MARPOL 73/78

and the IBC Code

15. Regulatory information

This product is not hazardous according to OSHA 29CFR 1910.1200. **US** federal regulations

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed. **CERCLA Hazardous Substance List (40 CFR 302.4)** Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - No **Hazard categories**

> Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

No SARA 302 Extremely hazardous substance SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting) Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Safe Drinking Water Act (SDWA)

Not regulated. Not listed.

Not regulated.

Not regulated.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR

1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Mouse IL-18 ELISA Kit Revised: 02/18/2021, 10/28

Not regulated.

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21

CFR 1310.12(c))

DEA Exempt Chemical Mixtures Code NumberNot regulated.Food and Drug Administration (FDA)Not regulated.

US state regulationsThis product does not contain a chemical known to the State of California to cause cancer,

birth defects or other reproductive harm.

Massachusetts RTK - Substance ListNot regulated.New Jersey Worker and Community Right-to-Know ActNot regulated.Pennsylvania RTK - Hazardous SubstancesNot regulated.Rhode Island RTKNot regulated.California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT)Not listed.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	EC Inventory	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PIC	CCS) Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

^{*}A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information

 Issue date
 08/27/2014

 Revision date
 02/18/2021

 Version
 10.1

Further information Not available.

Disclaimer This information is provided without warranty. The information is believed to be correct. This

information should be used to make an independent determination of the methods to

safeguard workers and the environment.

Mouse IL-18 ELISA Kit Revised: 02/18/2021, 11/28



SAFETY DATA SHEET

1. Identification

Product identifier Mouse IL-18 ELISA Kit

Conjugate reagent (Peroxidase-conjugated anti-mouse IL-18 monoclonal antibody),

Conjugate diluent

Other means of identification

Product code 7625

Recommended useResearch use only.

Recommended restrictions
None known.

Manufacturer / Importer / Supplier / Distributor information

Manufacturer andMedical & Biological Laboratories (MBL) Co., Ltd.Supplier (Asia)4-5-3 Sakae, Naka-ku, Nagoya, Aichi 460-0008, JapanTelephone number+81-52-238-1901 (Monday to Friday, 9 AM to 5 PM JST)

Fax +81-52-238-1440 **E-mail** sds-support@mbl.co.jp

URL http://www.mbl.co.jp/e/index.html

Contact person SDS Support

Supplier MBL International Corporation

15A Constitution Way, Woburn, MA 01801, USA

Telephone number +1-800-200-5459, option 3

Fax +1-781-939-6963
E-mail tech@mblintl.com
URL http://www.mblintl.com/
Contact person Technical Service

2. Hazard(s) identification

Physical hazards Not classified.
Health hazards Not classified.
OSHA hazard(s) Not classified.

Label elements

Hazard symbolNone.Signal wordNone.Hazard statementNone.

Precautionary statement

Prevention Observe good industrial hygiene practices.

Response Wash hands after handling.

Storage None.
Disposal None.
Hazard(s) not otherwise None.

classified (HNOC)

3. Composition/Information on ingredients

Mixtures

Chemical name	CAS number	%
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one	55965-84-9	< 0.1
and 2-methyl-4-isothiazolin-3-one		

Composition comments All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations

are in percent by volume.

4. First-aid measures

Mouse IL-18 ELISA Kit Revised: 02/18/2021, 12/28

Inhalation Under normal conditions of intended use, this material is not expected to be an inhalation

hazard

Skin contact Remove contaminated clothing. Dry skin with paper towel or similar. Get medical attention if

irritation develops or persists.

Rinse immediately with plenty of water, also under the eyelids. Get medical attention if Eye contact

irritation develops or persists.

Ingestion Drink plenty of water. Get medical attention if any discomfort occurs.

Most important symptoms/ effects, acute and delayed

Dry skin.

Indication of immediate medical attention and special Treat symptomatically.

treatment needed

General information

Get medical attention if any discomfort develops.

5. Fire-fighting measures

Suitable extinguishing media

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media

None known.

Specific hazards arising from None known.

the chemical

and precautions for

Special protective equipment Self-contained breathing apparatus, operated in positive pressure mode and full protective

clothing must be worn in case of fire.

Fire-fighting equipment/

instructions

firefighters

Move containers from fire area if you can do that without risk. Use water spray to cool

unopened containers. Prevent entry to sewers and public waters.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid contact with eyes and prolonged skin contact. For personal protection, see Section 8

of the SDS.

Methods and materials for containment and cleaning up **Environmental precautions**

Absorb spillage with suitable absorbent material. Flush contaminated area thoroughly with water, following removal of the spillage. For waste disposal, see Section 13 of the SDS.

Prevent further leakage or spillage if safe to do so.

7. Handling and storage

Precautions for safe handling Avoid contact with eyes and prolonged skin contact. Wash hands after handling. Observe

good industrial hygiene practices.

Conditions for safe storage, including any

incompatibilities

controls

Keep container tightly closed.

8. Exposure controls/personal protection

Occupational exposure limits No exposure limits noted for ingredient(s).

No biological exposure limits noted for the ingredient(s).

Biological limit values

Appropriate engineering

Ensure adequate ventilation is available, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/face protection

Risk of splashes: Wear safety glasses with side shields.

Skin protection

Hand protection Risk of contact: Wear protective gloves. Suitable gloves can be recommended by the glove

Other Respiratory protection

Wear appropriate clothing to prevent repeated or prolonged skin contact.

Where excessive vapor, mist or dust may result, use NIOSH approved respiratory protection

equipment.

Thermal hazards Wear appropriate thermal protective clothing, when necessary. Mouse IL-18 ELISA Kit Revised: 02/18/2021, 13/28

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. Wash hands after handling. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state Liquid.
Form Liquid.
Color Pale blue.
Odor Odorless.
Odor threshold Not available.
PH Neutral.
Melting point/freezing point Not available.
Initial boiling point and Not available.

boiling range

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit Not available.

- lower (%)

Flammability limit

Not available.

- upper (%)

Vapor pressureNot available.Vapor densityNot available.Relative densityNot available.Solubility(ies)Soluble in water.Partition coefficientNot available.

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

10. Stability and reactivity

Reactivity The product is non-reactive under normal conditions of use, storage and transport.

Chemical stability Stable at normal conditions.

Possibility of hazardous

reactions

Hazardous polymerization does not occur. Hazardous reactions do not occur.

Conditions to avoidNone known.Incompatible materialsNone known.Hazardous decompositionNone known.

products

11. Toxicological information

Information on likely routes of exposure

Ingestion Large quantities: May cause discomfort if swallowed.

Inhalation Under normal conditions of intended use, this material is not expected to be an inhalation

hazard.

Skin contact Prolonged contact may cause dryness of the skin. **Eye contact** Direct contact with eyes may cause temporary irritation.

Symptoms related to the Dry skin.

physical, chemical and toxicological characteristics

Information on toxicological effects

Acute toxicity Large quantities: May cause discomfort if swallowed.

Skin corrosion/irritationMay cause mild skin irritation.Serious eye damage/eyeMay cause eye irritation.

Mouse IL-18 ELISA Kit Revised: 02/18/2021, 14/28

Respiratory sensitization
Skin sensitization
No data available.
Reproductive toxicity
No data available.
Specific target organ toxicity
No data available.

- single exposure

Specific target organ toxicity No data available.

- repeated exposure

Aspiration hazard No data available.

12. Ecological information

Ecotoxicity The product components are not classified as environmentally hazardous. However, this

does not exclude the possibility that large or frequent spills have a harmful or damaging

effect on the environment.

Persistence and degradability No data available.

Bioaccumulative potential No data available.

Mobility in soil Expected to be highly mobile in soil.

Mobility in general The product is water soluble and may spread in water systems.

Other adverse effects No data available.

13. Disposal considerations

Disposal instructions Dispose of in accordance with all applicable regulations. Do not discharge into drains, water

Local disposal regulations Dispose of in accordance with local regulations.

Hazardous waste code Not regulated.

Waste from residues / unused Dispose of in accordance with local regulations.

products

Contaminated packaging Dispose of in same manner as unused product.

14. Transport information

DOT Not regulated as dangerous goods.

IATA Not regulated as dangerous goods.

IMDG Not regulated as dangerous goods.

Transport in bulk according Not applicable.

to Annex II of MARPOL 73/78

and the IBC Code

15. Regulatory information

US federal regulations This product is not hazardous according to OSHA 29CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance No SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Not regulated.

Mouse IL-18 ELISA Kit Revised: 02/18/2021, 15/28

Safe Drinking Water Act (SDWA)

Food and Drug Administration (FDA)

Not regulated.

Not regulated.

US state regulations This product does not contain a chemical known to the State of California to cause cancer,

birth defects or other reproductive harm.

Massachusetts RTK - Substance ListNot regulated.New Jersey Worker and Community Right-to-Know ActNot regulated.Pennsylvania RTK - Hazardous SubstancesNot regulated.Rhode Island RTKNot regulated.California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT)Not listed.

International inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	EC Inventory	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PIC	CS) Yes
United States & Puerto	Toxic Substances Control Act (TSCA) Inventory	No

^{*}A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information

Rico

 Issue date
 08/27/2014

 Revision date
 02/18/2021

 Version
 10.1

Further information Not available.

References HSDB® - Hazardous Substances Data Bank

Registry of Toxic Effects of Chemical Substances (RTECS)

C&L Inventory database

Disclaimer This information is provided without warranty. The information is believed to be correct. This

information should be used to make an independent determination of the methods to

safeguard workers and the environment.

Mouse IL-18 ELISA Kit Revised: 02/18/2021, 16/28



SAFETY DATA SHEET

1. Identification

Product identifier Mouse IL-18 ELISA Kit

Substrate reagent

Other means of identification

Product code 7625

Recommended use Research use only. **Recommended restrictions** None known.

Manufacturer / Importer / Supplier / Distributor information

Manufacturer andMedical & Biological Laboratories (MBL) Co., Ltd.Supplier (Asia)4-5-3 Sakae, Naka-ku, Nagoya, Aichi 460-0008, JapanTelephone number+81-52-238-1901 (Monday to Friday, 9 AM to 5 PM JST)

Fax +81-52-238-1440 **E-mail** sds-support@mbl.co.jp

URL http://www.mbl.co.jp/e/index.html

Contact person SDS Support

Supplier MBL International Corporation

15A Constitution Way, Woburn, MA 01801, USA

Telephone number +1-800-200-5459, option 3

Fax +1-781-939-6963

E-mail tech@mblintl.com

URL http://www.mblintl.com/

Contact person Technical Service

2. Hazard(s) identification

Physical hazards Not classified.
Health hazards Not classified.
OSHA hazard(s) Not classified.

Label elements

Hazard symbol None.
Signal word None.
Hazard statement None.

Precautionary statement

Prevention Observe good industrial hygiene practices.

Response Wash hands after handling.

Storage Store away from incompatible materials.

Disposal Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise

classified (HNOC)

None.

3. Composition/Information on ingredients

Mixtures

Chemical name	CAS number	%
Hydrogen peroxide	7722-84-1	< 0.1
3,3',5,5'-Tetramethylbenzidine	54827-17-7	<u><</u> 0.05

Composition comments All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations

are in percent by volume.

4. First-aid measures

Inhalation Under normal conditions of intended use, this material is not expected to be an inhalation

hazard.

Mouse IL-18 ELISA Kit Revised: 02/18/2021, 17/28

Remove contaminated clothing. Dry skin with paper towel or similar. Get medical attention if Skin contact

irritation develops or persists.

Rinse immediately with plenty of water, also under the eyelids. Get medical attention if Eye contact

irritation develops or persists.

Drink plenty of water. Get medical attention if any discomfort occurs. Ingestion

Most important symptoms/ effects, acute and delayed

May cause temporary irritation on skin or eye contact.

Indication of immediate medical attention and special

Treat symptomatically.

treatment needed

General information Get medical attention if any discomfort develops.

5. Fire-fighting measures

Suitable extinguishing media Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media

None known.

Specific hazards arising from None known.

the chemical

and precautions for

Special protective equipment Self-contained breathing apparatus and full protective clothing should be worn when fighting chemical fires. Selection of respiratory protection for firefighting: follow the general fire

precautions indicated in the workplace.

Fire-fighting equipment/

instructions

firefiahters

Move containers from fire area if you can do that without risk. Use water spray to cool

unopened containers. Prevent entry to sewers and pubic waters.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid prolonged and repeated contact. Wear suitable protective clothing. For personal

protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Absorb spillage with suitable absorbent material. After removal, flush contaminated area

thoroughly with water.

Environmental precautions Prevent further leakage or spillage if safe to do so.

7. Handling and storage

Precautions for safe handling Avoid contact with eyes and prolonged skin contact. Wear appropriate personal protective

equipment (See Section 8). Wash hands after handling. Observe good industrial hygiene

practices.

Conditions for safe storage,

Store away from incompatible materials.

including any incompatibilities

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value
Hydrogen peroxide (CAS 7722-84-1)	PEL	1.4 mg/m3
		1 ppm

US. ACGIH Threshold Limit Values

Components	Type	Value	
Hydrogen peroxide (CAS 7722-84-1)	TWA	1 ppm	

US NIOSH Pocket Guide to Chemical Hazards: Recommended exposure limit (REL)

Components	Type	Value	
Hydrogen peroxide (CAS 7722-84-1)	TWA	1.4 mg/m3	_
		1 ppm	

Biological limit values

No biological exposure limits noted for the ingredient(s).

Exposure guidelines

No exposure standards allocated.

Mouse IL-18 ELISA Kit Revised: 02/18/2021, 18/28

Appropriate engineering

controls

Provide adequate ventilation.

Individual protection measures, such as personal protective equipment

Eye/face protection Risk of splashes: Wear safety glasses with side shields.

Skin protection

Hand protection Wear protective gloves. Be aware that the liquid may penetrate the gloves. Frequent change

is advisable. Suitable gloves can be recommended by the glove supplier.

Other Wear appropriate clothing to prevent repeated or prolonged skin contact.

Respiratory protectionNo special precautions. Seek advice from local supervisor. **Thermal hazards**Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and

protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state Liquid.
Form Liquid.
Color Pale amber.

Odor Odorless.
Odor threshold Not available.
PH Not available.
Melting point/freezing point Not available.
Initial boiling point and Not available.

boiling range

Flash point Not applicable.

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit Not applicable.

- lower (%)

Flammability limit Not applicable.

- upper (%)

Vapor pressureNot available.Vapor densityNot available.Relative densityNot available.Solubility(ies)Soluble in water.Partition coefficientNot available.

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

10. Stability and reactivity

Reactivity The product is non-reactive under normal conditions of use, storage and transport.

Chemical stability Stable under the prescribed storage conditions.

Possibility of hazardous

reactions

None known.

Conditions to avoid Contact with incompatible materials. Elevated temperatures.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition No hazardous decomposition products are known.

products

11. Toxicological information

Information on likely routes of exposure

Ingestion May cause discomfort if swallowed.

Mouse IL-18 ELISA Kit Revised: 02/18/2021, 19/28

Inhalation Under normal conditions of intended use, this material is not expected to be an inhalation

hazard.

Skin contact Prolonged contact may cause dryness of the skin.

May cause eye irritation on direct contact. Eye contact

Symptoms related to the physical, chemical and toxicological characteristics May cause temporary irritation on skin or eye contact.

Information on toxicological effects

May cause discomfort if swallowed. **Acute toxicity**

Components		Species	Test Results	
Hydrogen peroxide (CAS 7722-84-1)				
Acute				
Oral	LD50	Rat	311 mg/kg	
Dermal	LD50	Rat	4,060 mg/kg	

Skin corrosion/irritation

Prolonged contact may cause dryness of the skin.

Serious eye damage/eye

irritation

May cause eye irritation on direct contact.

Respiratory sensitization No data available. No data available. Skin sensitization Germ cell mutagenicity No data available. Carcinogenicity No data available. Reproductive toxicity No data available.

Specific target organ toxicity

No data available.

- single exposure

Specific target organ toxicity No data available.

- repeated exposure

No data available. **Aspiration hazard**

12. Ecological information

Ecotoxicity

Components		Species	Test Results	
Hydrogen peroxid	e (CAS 7722-84-1)			
Aquatic				
Algae	EC50	Nitzschia	0.85 mg/L, 72 hours	

Persistence and degradability The product is biodegradable. The product is not bioaccumulating. Bioaccumulative potential Expected to be highly mobile in soil. Mobility in soil

Mobility in general The product is water soluble and may spread in water systems. Other adverse effects The environmental hazard of the product is considered to be limited.

13. Disposal considerations

Disposal instructions Dispose of in accordance with all applicable regulations. Do not discharge into drains, water

courses or onto the ground.

Local disposal regulations Dispose of in accordance with local regulations.

Hazardous waste code Not regulated.

Waste from residues / unused Dispose of in accordance with local regulations.

products

Contaminated packaging Dispose of in same manner as unused product.

14. Transport information

DOT Not regulated as dangerous goods. **IATA** Not regulated as dangerous goods. **IMDG** Not regulated as dangerous goods.

Mouse IL-18 ELISA Kit Revised: 02/18/2021, 20/28

Transport in bulk according to Annex II of MARPOL 73/78

Not applicable.

and the IBC Code

15. Regulatory information

US federal regulations This product is not hazardous according to OSHA 29CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance No SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Safe Drinking Water Act (SDWA)

Not regulated.

Not regulated.

US state regulationsThis product does not contain a chemical known to the State of California to cause cancer,

birth defects or other reproductive harm.

Massachusetts RTK - Substance ListNot regulated.New Jersey Worker and Community Right-to-Know ActNot regulated.Pennsylvania RTK - Hazardous SubstancesNot regulated.Rhode Island RTKNot regulated.California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT)Not listed.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	EC Inventory	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PIC	CS) No
United States & Puerto	Toxic Substances Control Act (TSCA) Inventory	Yes
Rico		

^{*}A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information

 Issue date
 08/27/2014

 Revision date
 02/18/2021

 Version
 10.1

List of abbreviations EC50: Effective Concentration, 50%.

LD50: Lethal Dose, 50%.

Further information Not available.

Mouse IL-18 ELISA Kit Revised: 02/18/2021, 21/28

References HSDB® - Hazardous Substances Data Bank

Registry of Toxic Effects of Chemical Substances (RTECS) IARC Monographs. Overall Evaluation of Carcinogenicity

Disclaimer This information is provided without warranty. The information is believed to be correct. This

information should be used to make an independent determination of the methods to

safeguard workers and the environment.

Mouse IL-18 ELISA Kit Revised: 02/18/2021, 22/28



SAFETY DATA SHEET

1. Identification

Product identifier Mouse IL-18 ELISA Kit

Stop solution

Other means of identification

Product code 7625

Recommended use Research use only. **Recommended restrictions** None known.

Manufacturer / Importer / Supplier / Distributor information

Manufacturer andMedical & Biological Laboratories (MBL) Co., Ltd.Supplier (Asia)4-5-3 Sakae, Naka-ku, Nagoya, Aichi 460-0008, JapanTelephone number+81-52-238-1901 (Monday to Friday, 9 AM to 5 PM JST)

Fax +81-52-238-1440 **E-mail** sds-support@mbl.co.jp

URL http://www.mbl.co.jp/e/index.html

Contact person SDS Support

Supplier MBL International Corporation

15A Constitution Way, Woburn, MA 01801, USA

Telephone number +1-800-200-5459, option 3

Fax +1-781-939-6963

E-mail tech@mblintl.com

URL http://www.mblintl.com/

Contact person Technical Service

2. Hazard(s) identification

Physical hazards Not classified.

Health hazardsSkin corrosion/irritationCategory 1Serious eye damage/eye irritationCategory 1

OSHA hazard(s) Not classified.

Label elements
Hazard symbol

riazara symbol



Signal word Danger

Hazard statement Causes severe skin burns and eye damage.

Precautionary statement

Prevention Do not breathe dust or mist. Wear protective gloves/protective clothing/eye protection/face

protection. Wash thoroughly after handling.

Response IF SWALLOWED: Rinse mouth. Do not induce vomiting. IF ON SKIN (or hair): Take off

immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor.

Storage Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international

regulations.

Hazard(s) not otherwise

classified (HNOC)

None.

3. Composition/Information on ingredients

Mouse IL-18 ELISA Kit Revised: 02/18/2021, 23/28

Mixtures

Chemical name	CAS number %		
Sulfuric acid	7664-93-9 < 10		
Composition comments	All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.		
4. First-aid measures			
Inhalation	Move injured person into fresh air and keep person calm under observation. If breathing is difficult, trained personnel should give oxygen. Get medical attention if any discomfort continues.		
Skin contact	Take off immediately all contaminated clothing. Flush skin thoroughly with water. Get medical attention immediately. Chemical burns must be treated by a physician.		
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove any contact lenses and open eyelids wide apart. Continue rinsing. Get medical attention immediately.		
Ingestion	Rinse mouth thoroughly. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Get medical attention if any discomfort continues.		
Most important symptoms/ effects, acute and delayed	Burning pain and severe corrosive skin damage. Extreme irritation of eyes and mucous membranes, including burning and tearing.		
Indication of immediate medical attention and special	Treat symptomatically.		

5. Fire-fighting measures

Suitable extinguishing media Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing None known.

media

the chemical

and precautions for

treatment needed **General information**

firefighters

Fire-fighting equipment/ instructions

Specific hazards arising from By heating and fire, harmful vapors/gases may be formed.

First aid personnel must be aware of own risk during rescue.

Special protective equipment Self-contained breathing apparatus and full protective clothing should be worn when fighting chemical fires. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.

Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid inhalation of spray mist and contact with skin and eyes. Wear appropriate personal protective equipment.

Methods and materials for containment and cleaning up **Environmental precautions**

Absorb spillage with non-combustible, absorbent material. Collect in containers and seal securely.

Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling Avoid inhalation of spray mist and contact with skin and eyes. Wear appropriate personal

Conditions for safe storage, including any incompatibilities

protective equipment. Wash hands after handling. Observe good industrial hygiene Keep container closed. Do not store near heat sources or expose to high temperatures. Protect from direct sunlight.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Mouse IL-18 ELISA Kit Revised: 02/18/2021, 24/28

Components	Туре	Value	
Sulfuric acid (CAS 7664-93-9)	PEL	1 mg/m3	
US. ACGIH Threshold Limit Values			
Components	Туре	Value	Form
Sulfuric acid (CAS 7664-93-9)	TWA	0.2 mg/m3	Thoracic fraction
US. NIOSH: Pocket Guide to Chemica	al Hazards		
Components	Туре	Value	
Sulfuric acid (CAS 7664-93-9)	REL	1 mg/m3	

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Provide adequate ventilation. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Provide easy access to water supply and eye wash facilities.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear approved chemical safety goggles.

Skin protection

but be aware that the liquid may penetrate the gloves. Frequent change is advisable.

Suitable gloves can be recommended by the glove supplier.

Other Wear protective clothing appropriate for the risk of exposure.

Respiratory protection If airborne concentrations are above the applicable exposure limits, use NIOSH approved

respiratory protection. Chemical respirator with acid gas cartridge.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and

protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Liquid. Physical state **Form** Liquid. Color Colorless. Odor Odorless. Not available. **Odor threshold** Not available. На Not available. Melting point/freezing point Initial boiling point and Not available. boiling range

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit Not available.

- lower (%)

Flammability limit Not available.

- upper (%)

Vapor pressureNot available.Vapor densityNot available.Relative densityNot available.Solubility(ies)Soluble in water.Partition coefficientNot available.

(*n*-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Mouse IL-18 ELISA Kit Revised: 02/18/2021, 25/28

10. Stability and reactivity

Reactivity Reacts violently with strong bases.

Chemical stability Stable under normal temperature conditions. Possibility of hazardous This product may react with reducing agents.

reactions

Conditions to avoid Sunlight. Heat. Freezing. Incompatible materials Reducing agents. Alkalis. Metals.

Hazardous decomposition

products

Sulfur dioxide.

11. Toxicological information

Information on likely routes of exposure

Ingestion May cause discomfort if swallowed. Ingestion may cause nausea, headache and dizziness.

Inhalation Spray mists may cause respiratory tract irritation.

Causes skin burns. Skin contact **Eve contact** Causes severe eve burns.

Burning pain and severe corrosive skin damage. Extreme irritation of eyes and mucous Symptoms related to the

membranes, including burning and tearing. physical, chemical and toxicological characteristics

Information on toxicological effects

Acute toxicity Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly

the digestive tract.

Components Species Test Results Sulfuric acid (CAS 7664-93-9) Acute Oral LD50 Rat 2,140 mg/kg

Skin corrosion/irritation

Causes severe skin burns.

Serious eye damage/eye

irritation

Causes eye burns.

No data available. Respiratory sensitization Skin sensitization No data available.

Germ cell mutagenicity No data available.

Exposure to strong inorganic acid mists containing sulfuric acid has been classified as Carcinogenicity

carcinogenic to humans. The information located is insufficient to conclude that sulfuric acid

Western mosquitofish (Gambusia affinis) 42 mg/L, 96 hours

itself is a carcinogen.

No data available. Reproductive toxicity Specific target organ toxicity No data available.

- single exposure

Fish

No data available.

- repeated exposure

Aspiration hazard No data available.

12. Ecological information

Specific target organ toxicity

Ecotoxicity Large amounts of the product may affect the acidity (pH-factor) in water with possible risk of

harmful effects to aquatic organisms.

Species Components **Test Results** Sulfuric acid (CAS 7664-93-9) Aquatic

Persistence and degradability No data available. Bioaccumulative potential No data available. Mobility in soil No data available.

LC50

Mobility in general The product is water soluble and may spread in water systems. Mouse IL-18 ELISA Kit Revised: 02/18/2021, 26/28

Other adverse effects None known.

13. Disposal considerations

Disposal instructions Dispose of in accordance with all applicable regulations. Do not discharge into drains, water

courses or onto the ground.

Local disposal regulations Dispose of in accordance with local regulations.

Hazardous waste code D002: Corrosive waste

Waste from residues / unused Dispose of in accordance with local regulations.

products

Contaminated packaging Dispose of in same manner as unused product.

14. Transport information

DOT

UN number UN2796

UN proper shipping name Sulphuric acid solution

Transport hazard class(es) 8
Subsidiary class(es) Packing group ||

Special precautions for user Read safety instructions, SDS and emergency procedures before

handling.

Labels required 8

Special provisions A3, A7, B2, B15, IB2, N6, N34, T8, TP2, TP12

Packaging exceptions154Packaging non bulk202Packaging bulk242

IATA

UN number UN2796

UN proper shipping name Sulphuric acid solution

Transport hazard class(es) 8
Subsidiary class(es) Packaging group II
Environmental hazards No
Labels required 8
ERG Code 8L

Special precautions for user Read safety instructions, SDS and emergency procedures before

handling.

IMDG

UN number UN2796

UN proper shipping name Sulphuric acid solution

Transport hazard class(es) 8
Subsidiary class(es) Packaging group ||
Environmental hazards

Marine pollutant No Labels required 8

EmS F-A, S-B

Special precautions for user Read safety instructions, SDS and emergency procedures before

handling.

Transport in bulk according to Annex II of

MARPOL 73/78 and the IBC Code

Not applicable.

15. Regulatory information

US federal regulations This product is not hazardous according to OSHA 29CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Not listed.

Mouse IL-18 ELISA Kit Revised: 02/18/2021. 27/28

CERCLA Hazardous Substance List (40 CFR 302.4)

Sulfuric acid (CAS 7664-93-9)

Listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

No
SARA 311/312 Hazardous chemical

Yes

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Sulfuric acid (CAS 7664-93-9)

Safe Drinking Water Act (SDWA)

Not regulated.

Drug Enforcement Administration (DEA). List 2, Essential Sulfuric acid (CAS 7664-93-9) 6552

Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical

Code Number

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Sulfuric acid (CAS 7664-93-9) 20%W/V

Chemical Mixtures (21 CFR 1310.12(c))

DEA Exempt Chemical Mixtures Code NumberSulfuric acid (CAS 7664-93-9) 6552

US state regulations WARNING: This product contains a chemical known to the State of California to

cause cancer.

Massachusetts RTK - Substance List Sulfuric acid (CAS 7664-93-9)

New Jersey Worker and Community Right-to-Know Act
Sulfuric acid (CAS 7664-93-9)
500 lbs

Pennsylvania RTK - Hazardous Substances Sulfuric acid (CAS 7664-93-9)
Rhode Island RTK Sulfuric acid (CAS 7664-93-9)

California Proposition 65 - Carcinogens & Reproductive Toxicity Strong inorganic acid mists containing sulfuric

(CRT)

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	EC Inventory	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PIC	CS) Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

^{*}A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information

 Issue date
 08/27/2014

 Revision date
 02/18/2021

 Version
 10.1

List of abbreviations LC50: Lethal Concentration, 50%.

LD50: Lethal Dose, 50%.

Further information Not available.

Mouse IL-18 ELISA Kit Revised: 02/18/2021, 28/28

References IUCLID (2000)

RTECS (2006, 2008)

Disclaimer This information is provided without warranty. The information is believed to be correct. This

information should be used to make an independent determination of the methods to

safeguard workers and the environment.