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# SAFETY DATA SHEET

1. Identification

Product identifier Anti-His-tag mAb-HRP-DirecT

Other means of identification

Product code D291-7

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)

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Contact person SDS Support

Supplier MBL International Corporation

15A Constitution Way, Woburn, MA 01801, USA

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

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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

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

hazard

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

irritation develops or persists.

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

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

None known.

media

Specific hazards arising from None known.

the chemical

and precautions for firefighters

Special protective equipment Self-contained breathing apparatus, operated in positive pressure mode and full protective clothing must be worn in case of fire.

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

Fire-fighting equipment/

instructions

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 Keep container tightly 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

Ensure adequate ventilation is available, especially in confined areas.

controls

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

supplier.

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

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

equipment.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

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. Liquid. **Form** 

Colored, dependent on the conjugates. Color

> (Alexa Fluor® 488; yellowish green, Alexa Fluor® 594; purple, Alexa Fluor® 647; pale blue, APC; light blue, Azami-Green; pale green, FITC; yellowish green, PE; pink, HRP; light brown)

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

boiling range

Not available. Flash point Not available. **Evaporation rate** Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Not available. Flammability limit

- lower (%)

Flammability limit Not available.

- upper (%)

Not available. Vapor pressure Not available. Vapor density Relative density Not available. Solubility(ies) Soluble in water. **Partition coefficient** Not available.

(n-octanol/water)

Not available. **Auto-ignition temperature** Not available. **Decomposition temperature** Not available. **Viscosity** 

## 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 avoid None known. Incompatible materials

products

None known. **Hazardous decomposition** None known.

#### 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.

Prolonged contact may cause dryness of the skin. Skin contact 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

Large quantities: May cause discomfort if swallowed. **Acute toxicity** 

Skin corrosion/irritation May cause mild skin irritation. Serious eye damage/eye May cause eye irritation. Respiratory sensitization No data available. No data available. Skin sensitization Germ cell mutagenicity No data available.

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CarcinogenicityNo data available.Reproductive toxicityNo data available.Specific target organ toxicityNo 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.

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)

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
Rico		

<sup>\*</sup>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
 09/28/2011

 Revision date
 09/30/2016

 Version
 10

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.