

SAFETY DATA SHEET

1. Identification

Product identifier Anti-CD81 (TAPA1) mAb-Biotin

Other means of identification

Product code MEX003-6

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

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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.

None.

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)

3. Composition/Information on ingredients

Mixtures

Chemical name	CAS number	%
2-Methyl-4-isothiazolin-3-one	2682-20-4	< 0.01

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.

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

irritation develops or persists.

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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

May cause 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

None known.

media

Specific hazards arising from None known.

firefighters

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 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 contact with eyes and prolonged skin contact. 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. 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).

Exposure guidelines No exposure standards allocated. Appropriate engineering Ventilation is not normally required.

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. Nitrile or neoprene gloves are recommended.

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 protection No special precautions. Seek advice from local supervisor. Thermal hazards Wear appropriate thermal protective clothing, when necessary.

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

9. Physical and chemical properties

Appearance

Physical state Liquid. Form
Color
Colorless.

Odor
Odorless.

Odor threshold
PH
Neutral.

Melting point/freezing point
Initial boiling point and
Not available.
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 temperatureNot available.Decomposition temperatureNot available.ViscosityNot 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 avoidContact with incompatible materials. Elevated temperatures.
Incompatible materials
Strong acid, strong basic substance and electrolyte solution.

Hazardous decomposition

products

None known.

11. Toxicological information

Information on likely routes of exposure

Ingestion 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 May cause eye irritation on direct contact.

Symptoms related to the May cause irritation on skin or eye contact.

physical, chemical and toxicological characteristics

Information on toxicological effects

Acute toxicity

Components		Species	Test results	
2-Methyl-4-isothi	azolin-3-one (CAS 2682-	20-4)		
Acute				
Oral	LD50	Rat	53 ma/ka	

Skin corrosion/irritation May cause mild skin irritation.

Serious eve damage/eye May cause eye irritation on direct contact.

irritation

Respiratory sensitization No data available.

Skin sensitization May cause sensitization by skin contact.

Germ cell mutagenicity No data available.

Carcinogenicity This product is not considered to be a carcinogen by IARC.

Reproductive toxicity No data available.

Specific target organ toxicity Not classified.

- single exposure

Specific target organ toxicity

Not classified.

- repeated exposure

Aspiration hazard Not classified.

12. Ecological information

EcotoxicityThe product contains a substance which is toxic to aquatic organisms and which may cause

long-term adverse effects in the aquatic environment.

ComponentsSpeciesTest Results2-Methyl-4-isothiazolin-3-one (CAS 2682-20-4)AquaticCrustaceaLC50Calanoid copepod (Acartia clausi)0.056 mg/L, 48 hoursFishLC50Rainbow trout (Oncorhynchus mykiss)0.07 mg/L, 96 hours

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

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.

products

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

Contaminated packaging Dispose of in same manner as unused product.

Not applicable.

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

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.

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 65Not 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
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PIC	CS) Yes
United States & Puerto	Toxic Substances Control Act (TSCA) Inventory	Yes

Rico

16. Other information

 Issue date
 06/01/2016

 Revision date
 09/30/2016

Version 10

List of abbreviations EC50: Effective Concentration, 50%.

LC50: Lethal Concentration, 50%.

LD50: Lethal Dose, 50%.

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.

^{*}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).