

SAFETY DATA SHEET

1. Identification

Product identifier

Anti-Flavocytochrome b₅₅₈ (Human) mAb-FITC

Other means of identification	
Product code	D162-4
Recommended use	Research use only.
Recommended restrictions	None known.
Manufacturer / Importer / Sup	plier / Distributor information
Manufacturer and	Medical & Biological Laboratories (MBL) Co., Ltd.
Supplier (Asia)	4-5-3 Sakae, Naka-ku, Nagoya, Aichi 460-0008, Japan
Telephone 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

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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	None.
Disposal	None.
Hazard(s) not otherwise	None.
classified (HNOC)	

3. Composition/Information on ingredients

Chemical name		CAS number	%
reaction mass of: 5-chlo and 2-methyl-4-isothiazo	ro-2-methyl-4-isothiazolin-3-one blin-3-one	55965-84-9	< 0.1
Composition comments	All concentrations are in percent by are in percent by	weight unless ingredient	is a gas. Gas concentrations

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.
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 treatment needed	Treat symptomatically.
General information	Get medical attention if any discomfort develops.

5. Fire-fighting measures

instructions	unopened containers. Prevent entry to sewers and public waters.
Fire-fighting equipment/	Move containers from fire area if you can do that without risk. Use water spray to cool
Special protective equipment and precautions for firefighters	: Self-contained breathing apparatus, operated in positive pressure mode and full protective clothing must be worn in case of fire.
Specific hazards arising from the chemical	None known.
Suitable extinguishing media Unsuitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials. None known.

Personal precautions,
protective equipment and
emergency proceduresAvoid contact with eyes and prolonged skin contact. For personal protection, see Section 8
of the SDS.Methods and materials for
containment and cleaning upAbsorb 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.Environmental precautionsPrevent 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

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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 measure	es, 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	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	Liquid.
Color	Colored, dependent on the conjugates.
	(Alexa Fluor $^{ m R}$ 488; yellowish green, Alexa Fluor $^{ m R}$ 594; purple, Alexa Fluor $^{ m R}$ 647; pale blue,
	APC; light blue, Azami-Green; pale green, FITC; yellowish green, PE; pink, HRP; light brown)
Odor	Odorless.
Odor threshold	Not available.
рН	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 e	xplosive limits
Flammability limit	Not available.
- lower (%)	
Flammability limit	Not available.
- upper (%)	
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	Soluble in water.
Partition coefficient	Not available.
(<i>n</i> -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	Hazardous polymerization does not occur. Hazardous reactions do not occur.
reactions	
Conditions to avoid	None known.
Incompatible materials	None known.
Hazardous decomposition products	None known.
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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/irritation	May cause mild skin irritation.
Serious eye damage/eye	May cause eye irritation.
Respiratory sensitization	No data available.
Skin sensitization	No data available.
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 	
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.
ΙΑΤΑ	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 All components are on the U.S. EPA TSCA Inventory List.	.1200.
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated.		

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)

Superfund Amendments and Reauthorization Act of 1986 (SARA) Hazard categories

SARA 302 Extremely hazardous substance SARA 311/312 Hazardous chemical SARA 313 (TRI reporting)

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.
Food and Drug Administration (FDA)	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.

Not listed.

Not listed.

No

No

Not regulated.

Immediate Hazard - No

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

Massachusetts RTK - Substance List New Jersey Worker and Community Right-to-Know Act Pennsylvania RTK - Hazardous Substances Rhode Island RTK California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT)		Not regulated. Not regulated. Not regulated. Not regulated. Not listed.		
International invent	ories			
Country(s) or r	egion Invento	bry name	On inventory (ye	es/no)*
Australia	Australia	an Inventory of Chemical Substances (AICS)		No
Canada	Domest	tic Substances List (DSL)		Yes
Canada	Non-Do	omestic Substances List (NDSL)		No
China	Inventor	ry of Existing Chemical Substances in China (IECS)	C)	Yes
Europe	EC Inve	entory		No
Japan	Japan Inventory of Existing and New Chemical Substances (ENCS)		S)	Yes
Korea	Existing	Chemicals List (ECL)		Yes
New Zealand	New Zea	aland Inventory		Yes
Philippines	Philippir	ne Inventory of Chemicals and Chemical Substance	es (PICCS)	Yes
United States & Rico	& Puerto Toxic Su	ubstances 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	
Issue date	09/28/2011
Revision date	11/27/2018
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.