

SAFETY DATA SHEET

1. Identification			
Product identifier	Anti-Apolipoprotein E4 (Human) mAb		
Other means of identification			
Product code	M067-3		
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

Not classified.
Not classified.
Not classified.
None.
None.
None.
Observe good industrial hygiene practices.
Wash thoroughly after handling.
None.
None.
None.

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	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	No adverse effects due to ingestion are expected. 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

Suitable extinguishing media Unsuitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials. None known.
Specific hazards arising from the chemical	None known.
Special protective equipment and precautions for firefighters	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.
General fire hazards	The product is non-combustible.

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 Environmental precautions	Absorb spillage with non-combustible, absorbent material. After removal, flush contaminated area thoroughly with water. 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 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 Biological limit values Appropriate engineering controls	No exposure limits noted for ingredient(s). No biological exposure limits noted for the ingredient(s). Provide adequate ventilation.
Individual protection measure	es, such as personal protective equipment
Eye/face protection	If risk of splashing, wear safety goggles or face shield.
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 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

Form Color Odor Odor threshold pH	Liquid. Colorless. Odorless. Not available. Not available.
Odor Odor threshold	Odorless. Not available.
Odor threshold	Not available.
рН	Not available.
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 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 stable and non reactive under normal conditions of use, storage and
Chemical stability	Stable at normal conditions.
Possibility of hazardous	None known.
reactions	
Conditions to avoid	None known.
Incompatible materials	None known.
Hazardous decomposition products	No hazard in normal industrial use.

11. Toxicological information

IngestionLarge quantities: May cause discomfort if swallowed.InhalationUnder 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 theDry skin.physical, chemical and toxicological characteristics	Information on likely routes o	of exposure		
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Germ cell mutagenicityNo data available.CarcinogenicityNo data available.	Respiratory sensitization	No data available.		
Carcinogenicity No data available.	Skin sensitization	Not a skin sensitizer.		
• ,	Germ cell mutagenicity	No data available.		
Reproductive toxicity No data available.	Carcinogenicity	No data available.		
	Reproductive toxicity	No data available.		

Specific target organ toxicity	No data available.
	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	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

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.
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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

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JS federal regulations This product is not hazardous according to OSHA 29CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.		0.1200.
TSCA Section 12(b) Ex	port Notification (40 CFR 707, Subpt. D)	Not regulated.
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) CERCLA Hazardous Substance List (40 CFR 302.4)		Not listed.
		Not listed.
Superfund Amendments an	d 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		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 Adn	ninistration (DEA). List 2, Essential Chemicals (21 CFR	Not listed.
-	(f)(2) and Chemical Code Number	
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 regulations	This product does not contain a chemical known to the State c birth defects or other reproductive harm.	of California to caus	se cancer,
Massachusetts RTK - Su	bstance List	Not regulated.	
New Jersey Worker and Community Right-to-Know Act		Not regulated.	
Pennsylvania RTK - Hazardous Substances		Not regulated.	
Rhode Island RTK		Not regulated.	
California Proposition 65	5 - 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 (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory		Yes
*A "Yes" indicates this pro	duct complies with the inventory requirements administered by the	ne aovernina coun [,]	trv(s).

*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.
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.