

SAFETY DATA SHEET

1. Identification

Product identifier

HLA-A^{*}02:01 Influenza M1₅₉₋₆₈ Tetramer-ILGFVFTLTV-APC

Other means of identification	
Product code	TS-M162-2
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

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	None.
classified (HNOC)	
Supplemental information	None.

3. Composition/Information on ingredients

Chemical name	CAS number	%
Sodium azide	26628-22-8	< 0.1
omposition comments	All concentrations are in percent by wei are in percent by volume.	ght unless ingredient is a gas. Gas concentrations

4. First-aid measures

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Inhalation
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Move to fresh air. Get medical attention if any discomfort continues.

Skin contact	Remove contaminated clothing. Wash skin with soap and water. 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	Rinse mouth thoroughly. 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	Use fire-extinguishing media appropriate for surrounding materials. None known.	

Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	None known.
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.
Fire-fighting equipment/ instructions	Move containers from fire area if you can do it without risk. Use water spray to cool unopened containers. Prevent entry to sewers and public waters.
General fire hazards	The product is non-combustible.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Avoid inhalation of mist and contact with skin and eyes. 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. 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	Avoid contact with eves and prolonged skip contact. Wash hands after handling. Observe

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,	Keep container tightly closed. Store away from incompatible materials.
including any	
incompatibilities	

8. Exposure controls/personal protection

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Components	Туре	Value
Sodium azide (CAS 26628-22-8)	Ceiling	0.29 mg/m3
		0.11 ppm
US NIOSH Pocket Guide to Chemical F	lazards: Ceiling Limit	
	lazards: Ceiling Limit Type	
JS NIOSH Pocket Guide to Chemical F Components Sodium azide (CAS 26628-22-8)		Value and Time Period (if specified)

Appropriate engineering controls

Provide adequate ventilation. Provide easy access to water supply and eye wash facilities.

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 protection	No special precautions. Seek advice from local supervisor.
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.
Form	Liquid.
Color	Colored, dependent on the conjugates.
	(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)
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	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 Chemical stability Possibility of hazardous reactions	The product is stable and non reactive under normal conditions of use, storage and Stable at normal conditions. Sodium azide: Reacts with copper, lead, silver, mercury and carbon disulfide to form particularly shock-sensitive compounds. Reacts with acids, forming toxic and explosive hydrogen azide.
Conditions to avoid Incompatible materials Hazardous decomposition products	None known. Heavy metals. Acids. 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.

Skin contact Eye contact Symptoms related to the physical, chemical and toxicological characteristics	Prolonged contact may cause dryness of the Direct contact with eyes may cause tempora Dry skin.	
Information on toxicological e	ffects	
Acute toxicity	Large quantities: May cause discomfort if sv	vallowed.
Skin corrosion/irritation	May cause mild skin irritation.	
Serious eye damage/eye irritation	May cause eye irritation.	
Respiratory sensitization	Based on available data, the classification of	riteria are not met.
Skin sensitization	Based on available data, the classification of	riteria are not met.
Germ cell mutagenicity	No data available.	
Carcinogenicity		
IARC Monographs. Overall Evaluation of Carcinogenicity		Not listed.
NTP Report on Carcinogens		Not listed.
OSHA Specifically Regul	ated Substances (29 CFR 1910.1001-1050)	Not listed.
Reproductive toxicity	No data available.	
Specific target organ toxicity - single exposure	No data available.	
Specific target organ toxicity - repeated exposure	No data available.	
Aspiration hazard	Based on available data, the classification criteria are not met.	
Chronic effects	Prolonged inhalation may be harmful.	

12. Ecological information

Ecotoxicity	The product is 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	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.
	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 1910.1200. 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 Requ	lated Substances (29 CFR 1910.1001-1050)	Not listed.
CERCLA Hazardous Sul	Not listed.	
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Superfund Amendments and Hazard categories	Reauthorization Act of 1986 (SARA)	Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
SARA 302 Extremely ha	zardous substance	No
SARA 311/312 Hazardou	is chemical	No
SARA 313 (TRI reporting	a)	Not regulated.
Other federal regulations		
•	tion 112 Hazardous Air Pollutants (HAPs) List	Not regulated.
. ,	tion 112(r) Accidental Release Prevention (40 CFR 68.130)	Not regulated.
Safe Drinking Water Act		Not regulated.
Food and Drug Adminis		Not regulated.
US state regulations	This product does not contain a chemical known to the State of birth defects or other reproductive harm.	California to cause cancer,
Massachusetts RTK - Su	ubstance List	Not listed.
New Jersey Worker and Community Right-to-Know Act		Not listed.
Pennsylvania RTK - Hazardous Substances		Not listed.
Rhode Island RTK		Not listed.
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 (F	PICCS) Yes
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	n
Issue date	10/27/2017
Revision date	-
Version	10
Further information	Not available.
References	Registry of Toxic Effects of Chemical Substances (RTECS) HSDB® - Hazardous Substances Data Bank
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.