

# SAFETY DATA SHEET

### 1. Identification

**Product identifier** 

H-2L<sup>d</sup> MuLV gp70 Tetramer-SPSYVYHQF-PE

Other means of identification	
Product code	TS-M521-1
Recommended use	Research use only.
<b>Recommended restrictions</b>	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	Store away from incompatible materials.
Disposal	Dispose of waste and residues in accordance with local authority requirements.
Hazard(s) not otherwise classified (HNOC)	None.
Supplemental information	None.

## 3. Composition/Information on ingredients

Mixtures

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

## 4. First-aid measures

Inhalation

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	S
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 General fire hazards	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. 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

Precautions for safe handlingAvoid contact with eyes and prolonged skin contact. Wash hands after handling. Observe<br/>good industrial hygiene practices.Conditions for safe storage,Keep container tightly closed. Store away from incompatible materials.

## incompatibilities

including any

#### 8. Exposure controls/personal protection

#### **Occupational exposure limits**

US. ACGIH Threshold Limit Values	
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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 Hazards: Ceiling Limit Value and Time Period (if specified)

Components	Туре	Value	
Sodium azide (CAS 26628-22-8)	Ceiling	0.3 mg/m3	
		0.1 ppm	

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

**Biological limit values** No biological exposure limits noted for the ingredient(s).

Appropriate engineering

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	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.
<b>Respiratory protection</b>	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	The product is stable and non reactive under normal conditions of use, storage and Stable at normal conditions.
Possibility of hazardous reactions	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	None known.
Incompatible materials	Heavy metals. Acids.
Hazardous decomposition products	None known.

## 11. Toxicological information

#### Information on likely routes of exposure

Ingestion Inhalation	Large quantities: May cause discomfort if swallowed. Under normal conditions of intended use, this material is not expected to be an inhalation
initialation	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 e	ffects		
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.		
irritation			
Respiratory sensitization	Based on available data, the classification criteria are not met.		
Skin sensitization	Based on available data, the classification criteria are not met.		
Germ cell mutagenicity	No data available.		
Carcinogenicity			
IARC Monographs. Overa	III Evaluation of Carcinogenicity Not listed.		
NTP Report on Carcinoge	ens Not listed.		
OSHA Specifically Regula	ated Substances (29 CFR 1910.1001-1050 Not listed.		
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	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		
Densistance and dense debilitie	environment.		
Persistence and degradability			
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 consideration	ons		
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.		
14. Transport informatio	n		
DOT	Not regulated as dangerous goods.		
IATA	Not regulated as dangerous goods.		
IMDG	Not regulated as dangerous goods.		
Transport in bulk according	Not regulated as dangerous goods. Not applicable.		
to Annex II of MARPOL 73/78	Not applicable.		
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 Regulated Substances (29 CFR 1910.1001-1050)
 Not listed.

 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 haz	ardous substance	No
SARA 311/312 Hazardous chemical		No
SARA 313 (TRI reporting)		Not regulated.
Other federal regulations		
Clean Air Act (CAA) Sect	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 o birth defects or other reproductive harm.	f California to cause cancer,
Massachusetts RTK - Su	•	Not listed.
New Jersev Worker and	Community Right-to-Know Act	Not listed.
Pennsylvania RTK - Haza		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 (I	
United States & Puerto	Toxic Substances Control Act (TSCA) Inventory	Yes
Rico		100
*A "Vee" indicates this pro	duct complies with the inventory requirements administered by the	a averning country(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	09/25/2012
Revision date	09/30/2016
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.