

# SAFETY DATA SHEET

### 1. Identification

**Product identifier** 

DDDDK-tagged Protein PURIFICATION CARTRIDGE

Other means of identification		
Product code	3326KR	
Recommended use	Research use only.	
<b>Recommended restrictions</b>	None known.	
Manufacturer / Importer / Supplier / 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 classified (HNOC)	None.
Supplemental information	None.

# 3. Composition/Information on ingredients

Mixtures	
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Chemical name	CAS number	%
Sodium azide	26628-22-8	< 0.1
Composition comments	All concentrations are in percent by weigh are in percent by volume.	t 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.

#### DDDDK-tagged Protein PURIFICATION CARTRIDGE

General information	Get medical attention if any discomfort develops.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.
effects, acute and delayed	- -
Most important symptoms/	Dry skin.
Ingestion	Rinse mouth thoroughly. Get medical attention if any discomfort occurs.
Eye contact	Rinse immediately with plenty of water, also under the eyelids. Get medical attention if irritation develops or persists.
Skin contact	Remove contaminated clothing. Wash skin with soap and water. Get medical attention if irritation develops or persists.

### 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, 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	
Precautions for safe handling	Avoid contact with eyes and prolonged skin contact. Wash hands after handling. Observe good industrial hygiene practices.

#### Keep container tightly closed. Store away from incompatible materials. Conditions for safe storage, including any incompatibilities

#### 8. Exposure controls/personal protection

### **Occupational exposure limits**

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

Appropriate engineering

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

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

Physical state Form Color	Opaque suspension (50% beads). Suspension.
	Suspension.
Color	
COIOI	White (agarose beads). Dark brown (magnetic beads, magnetic agarose beads).
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 ex	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 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 Inhalation	Large quantities: May cause discomfort if swallowed. 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.	
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		
	Ill Evaluation of Carcinogenicity Not listed.	
NTP Report on Carcinoge		
	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 - 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		
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 considerati	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.	
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) OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) CERCLA Hazardous Substance List (40 CFR 302.4)

Not regulated. Not listed. Not listed.

## Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories		Immediate Haz Delayed Hazard Fire Hazard - N Pressure Hazar Reactivity Haza	d - No o rd - 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.	
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 cau	se cancer,
Massachusetts RTK - Su	Ibstance 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**

Issue date	10/24/2019
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.