

SAFETY DATA SHEET

1. Identification

Product identifier Anti-Caspase-8 (Human) mAb

Other means of identification

Product code M032-3

Recommended use Research use only. **Recommended restrictions** None known.

Manufacturer / Importer / Supplier / Distributor information

Manufacturer andMedical & Biological Laboratories (MBL) Co., Ltd.Supplier (Asia)4-5-3 Sakae, Naka-ku, Nagoya, Aichi 460-0008, JapanTelephone number+81-52-238-1901 (Monday to Friday, 9 AM to 5 PM JST)

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Contact person SDS Support

Supplier MBL International Corporation

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2. Hazard(s) identification

Physical hazards Not classified.
Health hazards Not classified.
OSHA hazard(s) Not classified.

Label elements

Hazard symbolNone.Signal wordNone.Hazard statementNone.Precautionary statement

Prevention Observe good industrial hygiene practices.

Response Wash thoroughly after handling.

Store away from incompatible materials.

None.

Storage Store away from incompatible materials.

Disposal Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise

classified (HNOC)

3. Composition/Information on ingredients

Mixtures

Chemical name	CAS number	%
Glycerol (Glycerin)	56-81-5	50 - 60

Composition comments All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations

are in percent by volume.

4. First aid measures

Inhalation Move to fresh air. Get medical attention if discomfort develops or persists.

Skin contact Remove contaminated clothing. Wash with soap and water. Get medical attention if irritation

develops or persists. Wash contaminated clothing before reuse.

Revised: 09/30/2016, 2/5

Eye contact Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact

lenses. Get medical attention if irritation develops or persists.

Ingestion Drink plenty of water. Seek medical advice.

Most important symptoms/ effects, acute and delayed

Irritation of eyes and mucous membranes. Mild skin irritation.

Indication of immediate medical attention and special

treatment needed

General information Get medical attention if any discomfort develops.

Treat symptomatically.

5. Fire fighting measures

Suitable extinguishing media Water. Foam. Dry powder. Carbon dioxide (CO2).

Unsuitable extinguishing

None known.

media

Specific hazards arising from Fire or high temperatures create: Carbon oxides.

the chemical

Special protective equipment Self-contained breathing apparatus, operated in positive pressure mode and full protective

and precautions for firefighters

clothing must be worn in case of fire.

Fire-fighting equipment/instructions Move containers from fire area if you can do that without risk. Use water spray to cool

unopened containers. Prevent entry to sewers and pubic waters.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. 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

Dike far ahead of liquid spill for later disposal. Small Spills: Absorb spillage with suitable absorbent material. Clean contaminated surface thoroughly. After removal, flush

contaminated area thoroughly with water. Large Spills: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

Environmental precautions

Prevent further leakage or spillage if safe to do so.

7. Handling and storage

Precautions for safe handling Provide adequate ventilation. Use work methods which minimize production of vapors and

mists. Avoid inhalation of mist and contact with skin and eyes. Wash hands after handling.

Observe good industrial hygiene practices.

Conditions for safe storage,

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

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form
Glycerol (CAS 56-81-5)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
US. ACGIH Threshold Limit Values			
			_

Туре	value	Form	
TWA	10 mg/m3	Mist.	
	TWA	TWA 10 mg/m3	TWA 10 mg/m3 Mist.

Biological limit values

No biological exposure limits noted for the ingredient(s).

Exposure guidelines

No exposure standards allocated.

Appropriate engineering

Provide adequate ventilation and minimize the risk of inhalation of vapors and mists.

controls

Individual protection measures, such as personal protective equipment

Eye/face protection Skin protection

Wear safety glasses.

Wear protective gloves. Nitrile gloves are recommended, but be aware that the liquid may **Hand protection**

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. Wear protective

gloves. Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove

supplier.

In case of inadequate ventilation or risk of inhalation of vapors, use suitable respiratory Respiratory protection

equipment with combination filter (gas filter/dust filter). Seek advice from local supervisor.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

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.

Viscous liquid. **Form** Colorless. Color Odor Odorless. Not available. **Odor threshold** Neutral. Melting point/freezing point Not available. Not available. Initial boiling point and

boiling range

Not available. Flash point **Evaporation rate** Not available. Not applicable. Flammability (solid, gas) Upper/lower flammability or explosive limits

Flammability limit

Not available.

- lower (%)

Not available. Flammability limit

- upper (%)

Vapor pressure Not available. Not available. Vapor density Relative density Not available. Soluble in water. Solubility(ies) Not available. **Partition coefficient**

(n-octanol/water)

Not available. **Auto-ignition temperature** Not available. **Decomposition temperature 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 reactions do not occur.

reactions

Strong heating. Contact with incompatible materials. Conditions to avoid

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

None known.

products

11. Toxicological information

Information on likely routes of exposure

Ingestion may cause irritation and malaise. Ingestion

Inhalation Under normal conditions of intended use, this material is not expected to be an inhalation

hazard.

Skin contact May cause skin irritation. Causes skin irritation.

Eye contact May cause eye irritation on direct contact. Causes eye irritation.

Symptoms related to the Irritation of eyes and mucous membranes. Mild skin irritation.

physical, chemical and toxicological characteristics

Information on toxicological effects

Acute toxicity Ingestion may cause irritation and malaise.

Skin corrosion/irritation May cause skin irritation.

Serious eye damage/eye May cause eye irritation on direct contact.

irritation

Respiratory sensitization

Skin sensitization

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

Not classified.

Not classified.

Not classified.

Specific target organ toxicity Knowledge about health hazard is incomplete.

- single exposure

Specific target organ toxicity Knowledge about health hazard is incomplete.

- repeated exposure

Aspiration hazard Not classified.

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 The product is biodegradable.

Bioaccumulative potential The product is not bioaccumulating.

Partition coefficient n-octanol / water (log Kow)

Glycerol (CAS 56-81-5) -1.76

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

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 information

DOT Not regulated as a dangerous good.

IATA Not regulated as a dangerous good.

IMDG Not regulated as a dangerous good.

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 hazardous according to OSHA 29 CFR 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 listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

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

Not regulated.

Not listed.

SARA 302 Extremely hazardous substance No SARA 311/312 Hazardous chemical Yes

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Safe Drinking Water Act (SDWA)

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR

Not listed.

1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21

CFR 1310.12(c))

DEA Exempt Chemical Mixtures Code NumberNot 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.

Massachusetts RTK - Substance List Glycerol (CAS 56-81-5)

New Jersey Worker and Community Right-to-Know Act Not regulated.

Pennsylvania RTK - Hazardous SubstancesGlycerol (CAS 56-81-5)Rhode Island RTKGlycerol (CAS 56-81-5)

California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT)

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 (PIC	CS) Yes
United States & Puerto	Toxic Substances Control Act (TSCA) Inventory	Yes

^{*}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

Rico

 Issue date
 09/28/2011

 Revision date
 09/30/2016

 Version
 10

Further information Not available.
References IUCLID

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.