



SAFETY DATA SHEET

1. Identification

Product identifier IMMUNOCYTO CD107a/LAMP-1 Detection Kit

Monensin

Other means of identification

Product code 4844

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)

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 hazardsFlammable liquidsCategory 2Health hazardsSerious eye damage/eye irritationCategory 2

OSHA hazard(s) Not classified.

Label elements

Hazard symbol





Signal word Danger

Hazard statement Highly flammable liquid and vapor. Causes serious eye irritation.

Precautionary statement

Prevention Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly

closed. Ground/bond container and receiving equipment. Use explosion-proof

electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wash thoroughly after handling. Wear protective

gloves/eye protection/face protection.

Response IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention. In case of fire: Use appropriate media to extinguish.

Storage Store in a well-ventilated place. Keep cool.

Disposal Dispose of contents/container in accordance with local/regional/national/international

regulations.

Hazard(s) not otherwise

classified (HNOC)

None.

3. Composition/Information on ingredients

Chemical name	CAS number	%
Ethanol	64-17-5	60 - 70

Composition comments

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

Revised: 09/30/2016, 2/19

4. First-aid measures

Inhalation Skin contact Move to fresh air. Call a physician if symptoms develop or persist.

Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical

attention if irritation develops and persists. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance.

Continue flushing during transport to hospital.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and

persists.

Ingestion

Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/ effects, acute and delayed Indication of immediate

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision. Coughing. Treat symptomatically.

medical attention and special

treatment needed

media

General information Get medical attention if any discomfort continues.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing

Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

the chemical

and precautions for firefighters

Specific hazards arising from Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

Special protective equipment 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

Specific methods General fire hazards In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers.

Use standard firefighting procedures and consider the hazards of other involved materials. Highly flammable liquid and vapor.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see Section 8 of the SDS.

Methods and materials for containment and cleaning up Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see Section 13 of the SDS. Wipe up with absorbent material (e.g. cloth, fleece).

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling Do not handle, store or open near an open flame, sources of heat or sources of ignition.

Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid contact with eyes. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage,

including any incompatibilities

Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS)

8. Exposure controls/personal protection

Occupational exposure limits

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

Components	Туре	Value	
Ethanol (CAS 64-17-5)	PEL	1,900 mg/m3	
		1,000 ppm	
US. ACGIH Threshold Limit Value	s		
Components	Туре	Value	
Ethanol (CAS 64-17-5)	STEL	1,000 ppm	
US. NIOSH: Pocket Guide to Cher	nical Hazards		
Components	Туре	Value	
Ethanol (CAS 64-17-5)	TWA	1,900 mg/m3	

Biological limit values

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

Appropriate engineering

Provide adequate ventilation. Explosion-proof general and local exhaust ventilation.

controls

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the

glove supplier.

Other Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation use suitable respirator. 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 Colorless.

Odor Alcohol.

Odor threshold Not available.
PH Not available.
Melting point/freezing point Not available.

Initial boiling point and

78.5 °C (173.3 °F) Ethanol

boiling range

Flash point 15.0 - 20.0 °C (59.0 - 68.0 °F) (70% Ethanol in water) estimated

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

- lower (%)

Revised: 09/30/2016, 4/19

Flammability limit Not available.

- upper (%)

Explosive limit Not available.

- lower (%)

Not available. **Explosive limit**

- upper (%)

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

(n-octanol/water)

Not available. **Auto-ignition temperature Decomposition temperature** Not available. Not available. **Viscosity** Not explosive. **Explosive properties Oxidizing properties** Not oxidizing.

10. Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and Reactivity

Chemical stability Stable under normal temperature conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Avoid heat, sparks, open flames and other ignition sources. Contact with incompatible

materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

None known.

11. Toxicological information

Information on likely routes of exposure

May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of Ingestion

occupational exposure.

Inhalation Prolonged inhalation may be harmful.

Prolonged or repeated skin contact may cause drying, cracking, or irritation. Skin contact

Causes serious eve irritation. **Eve contact**

Symptoms related to the

physical, chemical and

Headache. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling,

and blurred vision. Coughing.

toxicological characteristics

Information on toxicological effects

Acute toxicity

Components		Species	Test Results	
Ethanol (CAS 64-1	7-5)			
Acute				
Oral	LD50	Rat	7,000 - 11,000 mg/kg	
Inhalation	LC50	Mouse	39 g/m3, 4 hours	

Skin corrosion/irritation

Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

Based on available data, the classification criteria are not met. Respiratory sensitization Skin sensitization Based on available data, the classification criteria are not met.

Germ cell mutagenicity Due to lack of data the classification is not possible.

Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity Not listed. **NTP Report on Carcinogens** Not listed. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed.

Revised: 09/30/2016, 5/19

Reproductive toxicity Due to lack of data the classification is not possible. Specific target organ toxicity Due to lack of data the classification is not possible.

- single exposure

Specific target organ toxicity Due to lack of data the classification is not possible.

- repeated exposure

Aspiration hazard Due to lack of data the classification is not possible.

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.

Components		Species	Test Results
Ethanol (CAS 64-1	7-5)		
Aquatic			
Crustacea	LC50	Ceriodaphnia dubia	5,012 mg/L, 48 hours
		Daphnia magna	454 mg/L, 11 days
	NOEC	Ceriodaphnia dubia	9.6 mg/L
Fish	LC50	Pimephales promelas	13,480 mg/L, 96 hours

Persistence and degradability No data available.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Ethanol (CAS 64-17-5) -0.31

Mobility in soil This product is water soluble and may disperse in soil.

The product is water soluble and may spread in water systems. Mobility in general

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose

of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

The waste code should be assigned in discussion between the user, the producer and the Hazardous waste code

waste disposal company.

Waste from residues / unused Dispose of in accordance with local regulations.

products

Dispose of in same manner as unused product. Contaminated packaging

14. Transport information

DOT

UN1170 **UN** number

UN proper shipping name Ethanol solution

Transport hazard class(es)

Classes 3 Subsidiary risk 3 Label(s) Packing group

Read safety instructions, SDS and emergency procedures before Special precautions for user

handling.

24, IB2, T4, TP1 **Special provisions**

Packaging exceptions 4b, 150 202 Packaging non bulk 242 Packaging bulk

IATA

UN number UN1170 Ethanol solution **UN proper shipping name**

Transport hazard class(es)

Revised: 09/30/2016, 6/19

Classes 3
Subsidiary risk Packaging group II
Environmental hazards No
ERG Code 3L

Special precautions for user Read safety instructions, SDS and emergency procedures before

handling.

IMDG

UN number UN1170
UN proper shipping name Ethanol solution

Transport hazard class(es)

Classes 3
Subsidiary risk Packaging group II

Environmental hazards

Marine pollutant No mS F-E, S-D

Special precautions for user Read safety instructions, SDS and emergency procedures before

handling.

Transport in bulk according to Annex II of

MARPOL 73/78 and the IBC Code

Not applicable.

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

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.

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

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

SARA 302 Extremely hazardous substance
SARA 311/312 Hazardous chemical

Not listed.
Yes

SARA 313 (TRI reporting) Not regulated.

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)

Not regulated.

Not regulated.

US state regulations

Massachusetts RTK - Substance ListEthanol (CAS 64-17-5)New Jersey Worker and Community Right-to-Know ActEthanol (CAS 64-17-5)Pennsylvania Worker and Community Right-to-Know LawEthanol (CAS 64-17-5)

Rhode Island RTK Not regulated.

California Proposition 65

Not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region Inventory name On inventory (yes/no)* Australian Inventory of Chemical Substances (AICS) Australia Yes Canada Domestic Substances List (DSL) Yes Canada Non-Domestic Substances List (NDSL) No Inventory of Existing Chemical Substances in China (IECSC) China Yes **EC** Inventory Yes Europe

Rico

16. Other information

 Issue date
 01/30/2016

 Revision date
 09/30/2016

Version 10

List of abbreviations LC50: Lethal Concentration, 50%.

LD50: Lethal Dose, 50%.

NOEC: No Observed Effect Concentration.

Further information Not available.

References HSDB® - Hazardous Substances Data Bank

Registry of Toxic Effects of Chemical Substances (RTECS)

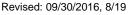
Disclaimer This information is provided without warranty. The information is believed to be correct. This

information should be used to make an independent determination of the methods to

Revised: 09/30/2016, 7/19

safeguard workers and the environment.

^{*}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).





SAFETY DATA SHEET

1. Identification

Product identifier IMMUNOCYTO CD107a/LAMP-1 Detection Kit

Cell suspension solution

Other means of identification

Product code 4844

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)

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 hazardsSensitization, skinCategory 1CarcinogenicityCategory 1B

OSHA hazard(s)

Label elements

Hazard symbol



Not classified.



Signal word Danger

Hazard statement May cause an allergic skin reaction. May cause cancer.

Precautionary statement

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been

read and understood. Wash thoroughly after handling. Wear protective gloves/protective

clothing/eye protection/face protection.

Response IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If exposed or concerned: Get medical

advice/attention. Wash contaminated clothing before reuse.

Storage Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international

regulations.

Hazard(s) not otherwise

classified (HNOC)

None.

3. Composition/Information on ingredients

Mixtures

Chemical name	CAS number	%
Formaldehyde	50-00-0	0.5
Methanol	67-56-1	< 0.2

Composition comments

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

Revised: 09/30/2016, 9/19

4. First-aid measures

Inhalation Move injured person into fresh air and keep person calm under observation. If breathing is

difficult, trained personnel should give oxygen. Get medical attention if any discomfort

continues.

Skin contact Take off immediately all contaminated clothing. Flush skin thoroughly with water. In case of

eczema or other skin disorders: Seek medical attention and take along these instructions.

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Eve contact

May cause an allergic skin reaction. Dermatitis. Rash.

Remove any contact lenses and open eyelids wide apart. Continue rinsing. Get medical

attention immediately.

Rinse mouth thoroughly. Drink 1 or 2 glasses of water. Never give anything by mouth to an Ingestion

unconscious person. Only induce vomiting at the instruction of medical personnel. Get

medical attention if any discomfort continues.

Most important symptoms/ effects, acute and delayed Indication of immediate

Treat symptomatically.

treatment needed

medical attention and special

General information

First aid personnel must be aware of own risk during rescue.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Use fire-extinguishing media appropriate for surrounding materials.

None known.

Specific hazards arising from Irritating and toxic gases or fumes may be released during a fire. Carbon oxides. Sulfur

the chemical

and precautions for

firefighters

Fire-fighting equipment/

instructions

Special protective equipment 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

Use standard firefighting procedures and consider the hazards of other involved materials.

precautions indicated in the workplace.

General fire hazards The product is not flammable.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear suitable protective clothing. Avoid contact with eyes, skin, and clothing. For personal

protection, see Section 8 of the SDS.

Methods and materials for containment and cleaning up

Absorb spill with vermiculite or other inert material, then place in a container for chemical waste for proper disposal. After removal, flush contaminated area thoroughly with water.

Never return spills to original containers for re-use.

Do not allow to enter drains, sewers or watercourses. **Environmental precautions**

7. Handling and storage

Precautions for safe handling Use with adequate ventilation. Avoid contact with skin and eyes. Wear appropriate personal

protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any

incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place. Store away from incompatible materials.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Components		Туре	Value
Formaldehyde (CAS 50-0	00-0)	STEL	2 ppm
		TWA	0.75 ppm
US. OSHA Table Z-1 Lin	nits for Air Conta	aminants (29 CFR 1910.	.1000)
Components		Туре	Value
Methanol (CAS 67-56-1)		PEL	260 mg/m3
			200 ppm
US. ACGIH Threshold L	imit Values		
Components		Туре	Value
Formaldehyde (CAS 50-0	00-0)	Ceiling	0.3 ppm
Methanol (CAS 67-56-1)		STEL	250 ppm
		TWA	200 ppm
US. NIOSH: Pocket Guid	de to Chemical H	Hazards	
Components		Туре	Value
Formaldehyde (CAS 50-0	00-0)	Ceiling	0.1 ppm
		TWA	0.016 ppm
Methanol (CAS 67-56-1)		STEL	325 mg/m3
			250 ppm
		TWA	260 mg/m3
			200 ppm
ACGIH Biological Expos	sure Indices		the ingredient(s).
Components	sure Indices Value	Determinant	Specimen Sampling Time
ACGIH Biological Expos Components Methanol (CAS 67-56-1)	value 15 mg/L	Determinant Methanol	
ACGIH Biological Expos	value 15 mg/L	Determinant Methanol	Specimen Sampling Time
ACGIH Biological Exposition Components Methanol (CAS 67-56-1) * For sampling details, pleosure guidelines	Value 15 mg/L ease see the soul	Determinant Methanol	Specimen Sampling Time
ACGIH Biological Exposition Components Methanol (CAS 67-56-1) * For sampling details, ple	Value 15 mg/L ease see the soul	Determinant Methanol rce document.	Specimen Sampling Time Urine *
ACGIH Biological Exposition Components Methanol (CAS 67-56-1) * For sampling details, pleosure guidelines US - California OELs: Signature of the control	Value 15 mg/L ease see the sour kin designation Methanol (CA	Determinant Methanol rce document. S 67-56-1)	Specimen Sampling Time
ACGIH Biological Exposition Components Methanol (CAS 67-56-1) * For sampling details, pleosure guidelines	value 15 mg/L ease see the sour kin designation Methanol (CA)	Determinant Methanol rce document. S 67-56-1) ation applies	Specimen Sampling Time Urine * Can be absorbed through the skin.
ACGIH Biological Expos Components Methanol (CAS 67-56-1) * For sampling details, ple osure guidelines US - California OELs: Si US - Minnesota Haz Suk	value 15 mg/L ease see the sour kin designation Methanol (CA: see Skin designa Methanol (CA:	Determinant Methanol rce document. S 67-56-1) tion applies S 67-56-1)	Specimen Sampling Time Urine *
ACGIH Biological Exposition Components Methanol (CAS 67-56-1) * For sampling details, pleosure guidelines US - California OELs: Signature of the control	value 15 mg/L ease see the sour kin designation Methanol (CA: see: Skin designat Methanol (CA: Skin designation	Determinant Methanol rce document. S 67-56-1) ation applies S 67-56-1)	Specimen Sampling Time Urine * Can be absorbed through the skin. Skin designation applies.
ACGIH Biological Exposication Components Methanol (CAS 67-56-1) * For sampling details, pleosure guidelines US - California OELs: Si US - Minnesota Haz Suk	value 15 mg/L ease see the sour kin designation Methanol (CA: os: Skin designat Methanol (CA: Skin designation Methanol (CA:	Determinant Methanol rce document. S 67-56-1) tion applies S 67-56-1) n S 67-56-1)	Specimen Sampling Time Urine * Can be absorbed through the skin.
ACGIH Biological Expos Components Methanol (CAS 67-56-1) * For sampling details, ple osure guidelines US - California OELs: Si US - Minnesota Haz Suk	value 15 mg/L ease see the sour kin designation Methanol (CA: os: Skin designation Methanol (CA: Skin designation Methanol (CA: Skin designation Methanol (CA: Minit Values: Skin	Determinant Methanol rce document. S 67-56-1) tion applies S 67-56-1) S 67-56-1) S 67-56-1) n designation	Specimen Sampling Time Urine * Can be absorbed through the skin. Skin designation applies. Can be absorbed through the skin.
ACGIH Biological Exposication Components Methanol (CAS 67-56-1) * For sampling details, pleosure guidelines US - California OELs: Si US - Minnesota Haz Suk US - Tennessee OELs: Si US ACGIH Threshold Li	kin designation Methanol (CA: Skin designation Methanol (CA: Skin designation Methanol (CA: Skin designation Methanol (CA: Mit Values: Skin Methanol (CA:	Determinant Methanol rce document. S 67-56-1) tion applies S 67-56-1) n S 67-56-1) n designation S 67-56-1)	Specimen Sampling Time Urine * Can be absorbed through the skin. Skin designation applies.
ACGIH Biological Exposication Components Methanol (CAS 67-56-1) * For sampling details, pleosure guidelines US - California OELs: Si US - Minnesota Haz Suk	kin designation Methanol (CA: Skin designation Methanol (CA: Skin designation Methanol (CA: Skin designation Methanol (CA: Metha	Determinant Methanol rce document. S 67-56-1) tion applies S 67-56-1) n S 67-56-1) n designation S 67-56-1) Hazards	Specimen Sampling Time Urine * Can be absorbed through the skin. Skin designation applies. Can be absorbed through the skin. Can be absorbed through the skin.
ACGIH Biological Exposication Components Methanol (CAS 67-56-1) * For sampling details, pleosure guidelines US - California OELs: Si US - Minnesota Haz Suk US - Tennessee OELs: Si US ACGIH Threshold Li US. NIOSH: Pocket Guiden	kin designation Methanol (CA: Skin designation Methanol (CA: Skin designation Methanol (CA: Skin designation Methanol (CA: Mit Values: Skin Methanol (CA: Methanol (CA: Methanol (CA: Methanol (CA: Methanol (CA: Methanol (CA:	Determinant Methanol rce document. S 67-56-1) ation applies S 67-56-1) a designation S 67-56-1) dazards S 67-56-1)	Specimen Sampling Time Urine * Can be absorbed through the skin. Skin designation applies. Can be absorbed through the skin. Can be absorbed through the skin. Can be absorbed through the skin.
ACGIH Biological Exposication Components Methanol (CAS 67-56-1) * For sampling details, pleosure guidelines US - California OELs: Si US - Minnesota Haz Sub US - Tennessee OELs: Si US ACGIH Threshold Li US. NIOSH: Pocket Guideropriate engineering	kin designation Methanol (CA: Skin designation Methanol (CA: Skin designation Methanol (CA: Skin designation Methanol (CA: Methanol (CA: Methanol (CA: Methanol (CA: Methanol (CA: Provide adequ	Determinant Methanol rce document. S 67-56-1) Ition applies S 67-56-1) It designation S 67-56-1) Hazards S 67-56-1) Uate ventilation. Observe	Specimen Sampling Time Urine * Can be absorbed through the skin. Skin designation applies. Can be absorbed through the skin. Can be absorbed through the skin. Can be absorbed through the skin. Occupational Exposure Limits and minimize the results of the skin.
ACGIH Biological Exposication Components Methanol (CAS 67-56-1) * For sampling details, pleasure guidelines US - California OELs: Si US - Minnesota Haz Suk US - Tennessee OELs: Si US ACGIH Threshold Li US. NIOSH: Pocket Guideropriate engineering crols	kin designation Methanol (CA: Skin designation Methanol (CA: Skin designation Methanol (CA: Provide adeques of inhalation o	Determinant Methanol rce document. S 67-56-1) tion applies S 67-56-1) n designation S 67-56-1) Hazards S 67-56-1) uate ventilation. Observe f vapors. Provide easy according to the second control of the second control o	Specimen Sampling Time Urine * Can be absorbed through the skin. Skin designation applies. Can be absorbed through the skin. Can be absorbed through the skin. Can be absorbed through the skin. Occupational Exposure Limits and minimize the recess to water supply and eye wash facilities.
ACGIH Biological Expose Components Methanol (CAS 67-56-1) * For sampling details, pleosure guidelines US - California OELs: Si US - Minnesota Haz Sub US - Tennessee OELs: Si US ACGIH Threshold Li US. NIOSH: Pocket Guideropriate engineering trols vidual protection measure	kin designation Methanol (CA: Skin designation Methanol (CA: Skin designation Methanol (CA: Methanol	Determinant Methanol rce document. S 67-56-1) tion applies S 67-56-1) n designation S 67-56-1) Hazards S 67-56-1) uate ventilation. Observe f vapors. Provide easy according to the second protective equipment of the second pro	Specimen Sampling Time Urine * Can be absorbed through the skin. Skin designation applies. Can be absorbed through the skin. Can be absorbed through the skin. Can be absorbed through the skin. Occupational Exposure Limits and minimize the recess to water supply and eye wash facilities.
ACGIH Biological Expose Components Methanol (CAS 67-56-1) * For sampling details, pleosure guidelines US - California OELs: Si US - Minnesota Haz Sub US - Tennessee OELs: Si US ACGIH Threshold Li US. NIOSH: Pocket Guideropriate engineering crols vidual protection measure Eye/face protection	kin designation Methanol (CA: Skin designation Methanol (CA: Skin designation Methanol (CA: Methanol	Determinant Methanol rce document. S 67-56-1) tion applies S 67-56-1) n designation S 67-56-1) Hazards S 67-56-1) uate ventilation. Observe f vapors. Provide easy according to the second control of the second control o	Specimen Sampling Time Urine * Can be absorbed through the skin. Skin designation applies. Can be absorbed through the skin. Can be absorbed through the skin. Can be absorbed through the skin. Occupational Exposure Limits and minimize the recess to water supply and eye wash facilities.
ACGIH Biological Exposicomponents Methanol (CAS 67-56-1) * For sampling details, pleasure guidelines US - California OELs: Substitution of the color of the col	kin designation Methanol (CA: Skin designation Methanol (CA: Skin designation Methanol (CA: Methanol	Determinant Methanol rce document. S 67-56-1) Ition applies S 67-56-1) It designation S 67-56-1) Hazards S 67-56-1) Juste ventilation. Observe f vapors. Provide easy acts and protective equipment of safety glasses or gogginal protective equipment of safety gl	Specimen Sampling Time Urine * Can be absorbed through the skin. Skin designation applies. Can be absorbed through the skin. Can be absorbed through the skin. Can be absorbed through the skin. Occupational Exposure Limits and minimize the recess to water supply and eye wash facilities. ment les.
ACGIH Biological Expose Components Methanol (CAS 67-56-1) * For sampling details, pleosure guidelines US - California OELs: Si US - Minnesota Haz Sub US - Tennessee OELs: Si US ACGIH Threshold Li US. NIOSH: Pocket Guideropriate engineering crols vidual protection measure Eye/face protection	kin designation Methanol (CA: Skin designation Methanol (CA: Skin designation Methanol (CA: Methanol	Determinant Methanol rce document. S 67-56-1) Ition applies S 67-56-1) It designation S 67-56-1) Hazards S 67-56-1) Juste ventilation. Observe f vapors. Provide easy acts and protective equipment of safety glasses or goggive gloves. Nitrile or neopring	Specimen Sampling Time Urine * Can be absorbed through the skin. Skin designation applies. Can be absorbed through the skin. Can be absorbed through the skin. Can be absorbed through the skin. Occupational Exposure Limits and minimize the recess to water supply and eye wash facilities. ment les. rene gloves are recommended. Be aware that the
ACGIH Biological Exposicomponents Methanol (CAS 67-56-1) * For sampling details, pleasure guidelines US - California OELs: Substitution of the color of the col	kin designation Methanol (CA: Skin designation Methanol (CA: Skin designation Methanol (CA: Skin designation Methanol (CA: Metha	Determinant Methanol rce document. S 67-56-1) Ition applies S 67-56-1) Ition designation S 67-56-1) Hazards S 67-56-1) Juste ventilation. Observe f vapors. Provide easy acts and protective equipments after gloves. Nitrile or neoprotectrate the gloves. Frequence of the second protective of the second protective of the second protective equipments after gloves. Frequence of the second protective of the second protective of the second protective equipments after gloves. Frequence of the second protective of the second protective equipments after gloves. Frequence of the second protective of the second protective equipments after gloves. Frequence of the second protective equipments after gloves.	Specimen Sampling Time Urine * Can be absorbed through the skin. Skin designation applies. Can be absorbed through the skin. Can be absorbed through the skin. Can be absorbed through the skin. Occupational Exposure Limits and minimize the recess to water supply and eye wash facilities. ment les.
ACGIH Biological Expose Components Methanol (CAS 67-56-1) * For sampling details, pleasure guidelines US - California OELs: Si US - Minnesota Haz Suk US - Tennessee OELs: Si US ACGIH Threshold Li US. NIOSH: Pocket Guideropriate engineering crols vidual protection measure Eye/face protection Skin protection Hand protection	kin designation Methanol (CA: Methanol (Determinant Methanol rce document. S 67-56-1) Ition applies S 67-56-1) Ition designation S 67-56-1) Ition applies S 67-5	Specimen Sampling Time Urine * Can be absorbed through the skin. Skin designation applies. Can be absorbed through the skin. Can be absorbed through the skin. Can be absorbed through the skin. Occupational Exposure Limits and minimize the recess to water supply and eye wash facilities. ment les. rene gloves are recommended. Be aware that the cent change is advisable. Suitable gloves can be
ACGIH Biological Exposicomponents Methanol (CAS 67-56-1) * For sampling details, pleasure guidelines US - California OELs: Substitution of the color of the col	sure Indices Value 15 mg/L ease see the sour kin designation Methanol (CA: os: Skin designation Methanol (CA: skin designation Methanol (CA: mit Values: Skin Methanol (CA: provide adequof inhalation of res, such as per Wear approve Wear protective liquid may per recommended Wear appropri	Determinant Methanol rce document. S 67-56-1) tion applies S 67-56-1) n designation S 67-56-1) Hazards S 67-56-1 Hazards Hazards S 67-56-1 Hazards Haz	Specimen Sampling Time Urine * Can be absorbed through the skin. Skin designation applies. Can be absorbed through the skin. Can be absorbed through the skin. Can be absorbed through the skin. Occupational Exposure Limits and minimize the recess to water supply and eye wash facilities. ment les. rene gloves are recommended. Be aware that the

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

Handle in accordance with good industrial hygiene and safety practice. Wash hands after handling. Routinely wash work clothing and protective equipment to remove contaminants.

Wear appropriate thermal protective clothing, when necessary.

9. Physical and chemical properties

suitable respiratory equipment.

Appearance

General hygiene

considerations

Thermal hazards

Physical state Liquid.
Form Liquid.
Color Colorless.
Odor Odorless.
Odor threshold Not available.

pH 7.6

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 pressureNot available.Vapor densityNot available.Relative densityNot available.Solubility(ies)Soluble in water.Partition coefficientNot available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.Explosive propertiesNot explosive.Oxidizing propertiesNot oxidizing.

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and

No dangerous reaction known under conditions of normal use.

Chemical stability Stable under normal temperature conditions.

Possibility of hazardous

rossibility of flazardous

reactions

Conditions to avoidContact with incompatible materials.
Incompatible materials
Strong oxidizing agents.

Hazardous decomposition

products

Carbon oxides.

11. Toxicological information

Information on likely routes of exposure

IngestionMay cause discomfort if swallowed.InhalationProlonged inhalation may be harmful.Skin contactMay cause an allergic skin reaction.

Eye contact Direct contact with eyes may cause temporary irritation.

Symptoms related to the May cause an allergic skin reaction. Dermatitis. Rash.

physical, chemical and toxicological characteristics

Information on toxicological effects

Acute toxicity May cause an allergic skin reaction.

Components		Species	Test Results	
Formaldehyde (CA	S 50-00-0)			
Acute				
Oral	LD50	Rat	100 mg/kg	
Inhalation	LC50	Rat	0.82 mg/L, 0.5 hour	

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Revised: 09/30/2016, 12/19

Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.

ACGIH sensitization

Formaldehyde (CAS 50-00-0)

Respiratory sensitization No data available.

Skin sensitization May cause an allergic skin reaction.

Germ cell mutagenicity No data available. Carcinogenicity May cause cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

Formaldehyde (CAS 50-00-0) Carcinogenic to humans.

NTP Report on Carcinogens

Formaldehyde (CAS 50-00-0) Known to be human carcinogen.

Sensitizer.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Formaldehyde (CAS 50-00-0) Cancer.

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 No data available.

Chronic effects Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

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.

Components		Species	Test Results
Formaldehyde (CA	S 50-00-0)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia pulex)	4.3 - 7.8 mg/L, 48 hours
Fish	LC50	Striped bass (Morone saxatilis)	10.302 - 16.743 mg/L,
			96 hours
Methanol (CAS 67-	-56-1)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	> 10,000 mg/L, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	15,400 mg/L, 96 hours

Persistence and degradability No data available.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Formaldehyde (CAS 50-00-0) 0.31 Methanol (CAS 67-56-1) -0.77

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.

14. Transport information

DOT Not regulated as dangerous goods. **IATA** Not regulated as dangerous goods. **IMDG** Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78

Not applicable.

and the IBC Code

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 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)
Formaldehyde (CAS 50-00-0)

Cancer Skin sensitization

Respiratory sensitization

Eye irritation Skin irritation

Not regulated.

Respiratory tract irritation

Acute toxicity Flammability

CERCLA Hazardous Substance List (40 CFR 302.4)

Formaldehyde (CAS 50-00-0)

Methanol (CAS 67-56-1)

Listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes
Delayed Hazard - Yes

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

SARA 302 Extremely hazardous substance

Chemical name	CAS number	Reportable quantity (pounds)	Threshold planning quantity (pounds)	Threshold planning quantity, lower value (pounds)	
Formaldehyde	50-00-0	100	500		
SARA 311/312 Hazar SARA 313 (TRI repor				Yes	
Chemical name	CAS number	% by wt.			
Formaldehyde	50-00-0	0.1 - < 1			

Other federal regulations

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

New Jersey Worker and Community Right-to-Know Act

Formaldehyde (CAS 50-00-0) Methanol (CAS 67-56-1)

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

Formaldehyde (CAS 50-00-0)

Safe Drinking Water Act (SDWA) Not regulated.

US state regulations

Massachusetts RTK - Substance List Formaldehyde (CAS 50-00-0)

Methanol (CAS 67-56-1) Formaldehyde (CAS 50-00-0) Methanol (CAS 67-56-1)

Pennsylvania RTK - Hazardous Substances Formaldehyde (CAS 50-00-0)

Methanol (CAS 67-56-1)

Rhode Island RTK Formaldehyde (CAS 50-00-0)

Methanol (CAS 67-56-1)

California Proposition 65 - Carcinogens & Reproductive Toxicity Formalde

(CRT)

Formaldehyde (CAS 50-00-0) Methanol (CAS 67-56-1)

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 Rico	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

 Issue date
 01/30/2016

 Revision date
 09/30/2016

Version 10

List of abbreviations EC50: Effective Concentration, 50%. LC50: Lethal Concentration, 50%.

LD50: Lethal Dose, 50%.

Further information Not available.

References HSDB® - Hazardous Substances Data Bank

Registry of Toxic Effects of Chemical Substances (RTECS) IARC Monographs. Overall Evaluation of Carcinogenicity

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.



SAFETY DATA SHEET

1. Identification

Product identifier IMMUNOCYTO CD107a/LAMP-1 Detection Kit

FITC-labeled anti-human CD107a mAb, FITC-labeled mouse IgG1 isotype control

Revised: 09/30/2016, 15/19

Other means of identification

Product code 4844

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)

 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

Chemical name	CAS number	%
Sodium azide	26628-22-8	< 0.1

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 any discomfort continues.

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

irritation develops or persists.

Revised: 09/30/2016, 16/19

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 Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

None known.

media

Specific hazards arising from None known.

the chemical

and precautions for

Special protective equipment Self-contained breathing apparatus, operated in positive pressure mode and full protective clothing must be worn in case of fire.

firefighters

Fire-fighting equipment/

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. instructions

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.

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. ACGIH Threshold Limit Values

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

Biological limit values

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

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 Skin protection

Risk of splashes: Wear safety glasses with side shields.

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. Wear appropriate thermal protective clothing, when necessary. Thermal hazards

General hygiene Handle in accordance with good industrial hygiene and safety practice. Wash hands after handling. Routinely wash work clothing and protective equipment to remove contaminants. considerations

9. Physical and chemical properties

Appearance

Physical state Liquid. Liquid. **Form**

Colored, dependent on the conjugates. Color

(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. Neutral. Not available. Melting point/freezing point Not available. Initial boiling point and

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 (%)

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

(n-octanol/water)

Not available. **Auto-ignition temperature 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

hydrogen azide.

reactions particularly shock-sensitive compounds. Reacts with acids, forming toxic and explosive

Sodium azide: Reacts with copper, lead, silver, mercury and carbon disulfide to form

Conditions to avoid None known. Incompatible materials Heavy metals. Acids. **Hazardous decomposition** None known.

products

11. Toxicological information

Information on likely routes of exposure

Large quantities: May cause discomfort if swallowed. Ingestion

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

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/irritationMay cause mild skin irritation. **Serious eye damage/eye**May cause eye irritation.

irritation

Respiratory sensitizationBased 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. Overall Evaluation of CarcinogenicityNot listed.NTP Report on CarcinogensNot listed.OSHA Specifically Regulated 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

environment.

Persistence and degradability No data available.

Bioaccumulative potential No data available.

Mobility in soil No data available.

Mobility in generalThe product is water soluble and may spread in water systems.Other adverse effectsThe 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.

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 dangerous goods.

IATA 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 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 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

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

Safe Drinking Water Act (SDWA)

Food and Drug Administration (FDA)

Not regulated.

Not regulated.

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 ListNot listed.New Jersey Worker and Community Right-to-Know ActNot listed.Pennsylvania RTK - Hazardous SubstancesNot listed.Rhode Island RTKNot 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 (PIC	CCS) 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
 01/30/2016

 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.