

# SAFETY DATA SHEET

#### 1. Identification

**Product identifier** 

Mouse CD1d Tetramer (α-GalCer loaded)-APC

Other means of identification		
Product code	TS-MCG-2	
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 Health hazards	
Environmental hazards	Aquatic Acute 2
	Aquatic Acute 3
Label elements	
Hazard symbol	None.
Signal word	None.
Hazard statement	H402 harmful to aquatic life.
	H412 harmful to aquatic life with long lasting effects
Precautionary statement	
Prevention	Avoid release to the environment. 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.

## 3. Composition/Information on ingredients

Mixtures

Chemical name	CAS number	%	
Pyridine	110-86-1	<1	
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. Call a physician if symptoms develop or persist.
Skin contact	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	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Coughing.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	Get medical attention if any discomfort continues.
5. Fire-fighting measures	
Suitable extinguishing media	Alcohol resistant foam, Water fog, Dry chemical powder, Carbon dioxide (CO2).

Suitable extinguishing media	Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing	Do not use water jet as an extinguisher, as this will spread the fire.
media	
Specific hazards arising from	Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a
the chemical	source of ignition and flash back. During fire, gases hazardous to health may be formed.
Special protective equipment	
and precautions for	chemical fires. Selection of respiratory protection for firefighting: follow the general fire
firefighters	precautions indicated in the workplace.
Fire-fighting equipment/ instructions	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.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	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	Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	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

Components		Туре	Value
Pyridine (CAS 110-86-1)		PEL	15 mg/m3
			5 ppm
US. ACGIH Threshold L	imit Values		
Components		Туре	Value
Pyridine (CAS 110-86-1)		TWA	5 ppm
Sodium azide (CAS 2662	28-22-8)	Cailing	0.3 mg/m3
			0.1 ppm
ividual protection measu	-		
ividual protection measu Eye/face protection	-	sonal protective equ asses with side shield	
Skin protection			
Skin protection Hand protection	Wear appropria glove supplier.	ate chemical resistan	t gloves. Suitable gloves can be recommended by the
•	glove supplier.	ate chemical resistan	t gloves. Suitable gloves can be recommended by the
Hand protection	glove supplier. Wear suitable	protective clothing.	
Hand protection Other	glove supplier. Wear suitable In case of inad	protective clothing. equate ventilation use	t gloves. Suitable gloves can be recommended by the e suitable respirator. Seek advice from local supervise clothing, when necessary.

## 9. Physical and chemical properties

Appearance		
Physical state	Liquid.	
Form	Liquid.	
Color	Colorless.	
Odor	Odorless.	
Odor threshold	Not available.	
рН	Not available.	
Melting point/freezing point	Not available.	
Initial boiling point and	Not acailable	
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 (%)		
Explosive limit	Not available.	
- lower (%)		
Explosive 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.
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

10. Stability and reactive	/ity
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and
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	Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

## 11. Toxicological information

Information on likely routes o	f exposure
Ingestion	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.
Inhalation	Prolonged inhalation may be harmful.
Skin contact	Prolonged or repeated skin contact may cause drying, cracking, or irritation.
Eye contact	Causes serious eye irritation.
Symptoms related to the physical, chemical and toxicological characteristics	Headache. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Coughing.

#### Information on toxicological effects

Components		Species	Test Results	
Pyridine (CAS 110-86-1)				
Acute				
Oral	LD50	Mouse	1,500 mg/kg	
Inhalation	LC50	Rat	4500 ppm, 4hour	
Skin corrosion/irritation	Prolonged skir	n contact may cause te	mporary irritation.	
Serious eye damage/eye irritation	Causes seriou	s eye irritation.		
Respiratory sensitization	Based on avai	lable data, the classific	ation criteria are not met.	
Skin sensitization	Based on avai	lable data, the classific	ation criteria are not met.	
Germ cell mutagenicity	Due to lack of data the classification is n		s not possible.	
Carcinogenicity				
IARC Monographs. Overa	all Evaluation o	f Carcinogenicity	Not listed.	
NTP Report on Carcinoge	ens		Not listed.	
<b>OSHA Specifically Regula</b>	ated Substance	es (29 CFR 1910.1001	1050] Not listed.	
Reproductive toxicity	Due to lack of	data the classification	s not possible.	
Specific target organ toxicity - single exposure	ty Due to lack of data the classification is not possible.			
Specific target organ toxicity - repeated exposure	ty Due to lack of data the classification is not possible.			
Aspiration hazard	Due to lack of	data the classification	s not possible.	
Chronic effects	Prolonged inha	alation may be harmful		

## 12. Ecological information

#### Ecotoxicity

-		
Components	Species	Test Results

Pyridine (CAS 110-86-1) <b>Aquatic</b>			
Algae	EC50 NOEC	Pseudokirchneriella subcapitata Pseudokirchneriella subcapitata	0.10mg/L, 72hour 0.01mg/L, 72hour
Persistence and degradability	No data availab	le.	
Bioaccumulative potential			
Partition coefficient n-oct	tanol / water (log Pyridine (CAS		
Mobility in soil	•		
Mobility in general	This product is water soluble and may disperse in soil. The product is water soluble and may spread in water systems. No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.		
Other adverse effects			
13. Disposal consideration	ons		
Disposal instructions		aim or dispose in sealed containers at licens tainer in accordance with local/regional/natic	
Local disposal regulations	Dispose in acco	ordance with all applicable regulations.	
Hazardous waste code		should be assigned in discussion between	the user, the producer and the
Waste from residues / unused	waste disposal Dispose of in a	company. ccordance with local regulations.	
products			
Contaminated packaging	Dispose of in sa	ame manner as unused product.	
14. Transport informatio	n		
DOT .			
UN number		UN1282	
UN proper shipping name	9	Pyridine	
Transport hazard class(e	s)		
Classes		3	
Subsidiary risk		-	
Label(s)		3	
Packing group		II	
ATA			
UN number		UN1282	
UN proper shipping name		Pyridine	
Transport hazard class(e	s)		
Classes		3	
Subsidiary risk		-	
Packaging group MDG		II	
UN number		UN1282	
UN proper shipping name	9	Pyridine	
Transport hazard class(e			
Classes	-,	3	
Packaging group		II	
15. Regulatory information	on		
US federal regulations			
TSCA Section 12(b) Expo	ort Notification (	40 CFR 707, Subpt. D)	Not regulated.
CERCLA Hazardous Subs			Not listed.

Carcinogen (Pyridine)

International Inventories Country(s) or region

**California Proposition 65** 

US state regulations

Inventory name

On inventory (yes/no)\*

Europe	EC Inventory	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	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	10/18/2018
Revision date	11/26/2020
Version	10.1
List of abbreviations	LC50: Lethal Concentration, 50%. LD50: Lethal Dose, 50%. NOEC: No Observed Effect Concentration.
Further information References	Not available. 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 safeguard workers and the environment.