

Prepared date: 21 July 2021 Revised date : 17 March 2022

Safety Data Sheet

	DUCT AND COMPANY			
		nstant Swab Total Protein		
		Simplified Swab Test Kit for protein residue		
	Company's name	Morinaga Institute of Biological Science, Inc.		
		2-1-16 Sachiura, Kanazawa-ku Yokohama 236-0003 Japan		
		Quality assurance department		
		+81-45-791-7673		
	-	+81-45-791-7675		
	SDS No.	GHS-IP-11		
B HA	ZARDS IDENTIFICATIO			
	GHS Classification			
		lbozord		
	Physical and chemica			
	Flammable liquids	: Category 2		
	Human health hazard			
	Serious eye damag	e/eye : Category 2B		
	irritation			
	Reproductive cell m	utagenicity : Category 1B		
	Reproductive toxicit			
	Specific target orga			
	toxicity(Single expo	sure)		
	Specific target orga	n : Category 1 (liver)		
	toxicity(Repeated ex	xposure)		
		Category 2 (central nervures system)		
	Pictogram or symbol			
	Signal word	: danger		
	Hazard statement	: Highly flammable liquid		
		: Causes serious eye irritation		
		: May cause genetic defects		
		: May damage fertility or the unborn child		
		: May cause respiratory irritation		
		: May cause drowsiness or dizziness		
		: Cause damage to liver through prolonged or repeated exposure		
		: May cause damage to nervous system through prolonged or		
		repeated exposure		
	Precautionary statements			
	Prevention	: Obtain, read and follow all safety instructions before use		
	rievention	: Keep away from heat, hot surfaces, sparks, open flamers and oth		
		ignition source. No smoking.		
		: Keep container tightly closed.		
		: Do not breathe vapors or mists.		
		: Wash hands thoroughly after handling.		
		Do not eat, drink or smoke when using this product.		
		• Wear protective gloves/ protective clothing/ eve protection/ face		
		 Wear protective gloves/ protective clothing/ eye protection/ face protection. 		

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Response

If on skin(or hair)	: Take off immediately all contaminated clothing. Rinse affected areas
	with water(or shower).
If on 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 help.
If inhaled	: Remove victim to fresh air and keep at rest in a position comfortable
	for breathing.
Get medical help if you feel	unwell

Get medical help if you feel unwell.

Storage

Store in a well-ventilated place. Keep container tightly closed. Store looked up.

Disposal

Dispose of contents/container in accordance with local and national regulations.

(3)	COMPOSITION/INFORMATION ON IN Substance/Mixture	/POSITION/INFORMATION ON INGREDIENTS Substance/Mixture : Mixture(reagents and swab)				
			·	<u>0</u> (
	Ingredients and reagents	: Material	CAS Number	%		
	(0.5mL per pieces)	Ethanol	64-17-5	40.8		
		Glycerol	56-81-5	40-55		
		Citric acid	5949-29-1	1-5		
		Coloring matter Water	- 7732-18-5	<1% 5-20%		
(4)	FIRST AID MEASURES					
	Inhalation	: Remove the vict	im to fresh air and keep at re	st in a position		
		comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. Wash skin with soap and plenty of water.				
	Skin contact					
	Eye contact	: Rinse cautiously	with water for several minute	es. Remove contact		
		lenses, if preser	nt and easy to do. Continue rir	nsing.		
		Immediately call POISON CENTER or doctor.				
	Ingestion	After rinse the mouth with water again and again, give several				
	ingestion	cups of water dr	ink for diluting the effect. with fingers inserted into the			
		-	-	throat if possible.		
		Get medical atte	ention immediately.			
【5】	FIRE-FIGHTING MEASURES					
	Extinguishing media	: Water, dry, cher	nical, alcohol-resistant form a	nd carbon dioxide.		
	Fire fighting		e of fire, extinguish the fire wi			
		•	or with fire extinguishers using	•		
		-	ase of big fire, interrupt form t			
		resistant form)	3 , , ,			
	Protection for firefighters		riate respirator and chemical	protective clothing		
	C C	during fire fightir	ng.			
[6]	ACCIDENTAL RELEASE MEASURES					
	Personal precautions		ide adequate ventilation proce			
	Protective equipment and	• •	nnecessary entry other than t	• • •		
	emergency procedures	•	ng a rope. While working, we			
	chicigency procedures		oid adhering it on skin, or inha	÷ ÷		
		from windward,	and retract the people downw	rind.		
	Environmental precautions	: To be careful no	t discharged to the environme	ent without being		
			d waste water contaminated.	5		
	Methods and materials for		earth, sawdust and the waste.	Collect empty container		
	contaminant and methods and	that can be seale				
	materials for cleaning up					
	U .					

Recovery, neutralization Secondary disaster prevention	: No information available. Clean contaminated objects and areas thoroughly observing		
measures	environmental regulations.		
[7] HANDLING AND STORAGE			
Handling			
Technical measure	 Highly flammable. Avoid contact with high temperature objects, spark, and strong oxidizing agent. Use with local exhaust ventilation. Do not rough handling containers, such as upsetting, falling, giving a shock, and dragging. Prevent leakage, overflow, and scattering. Not to generate stream and dust in vain. Seal the container after use. After handling, wash hands and face, and then gargle. In places other than those specified, should not be smoking or eating and drinking. Should no be brought contaminated protective equipment and gloves to rest steps. Deny unnecessary entry of non-emergency personnel to the handling area. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. 		
Precautions			
Safety handling precautions			
Storage			
Safe Storage conditions	¹ Store away from sunlight in well-ventilated place at room temperature (preferably cool). Keep container tightly closed.		
Incompatible substances	: Strong oxidizing agents		
[8] EXPOSURE CONTROL/PERSONAL			
Exposure limits	: ACGIH		
	Ethanol STEL 100ppm		
	Glycerol TWA 10mg/m3 (vapor)		
Developed a vote stiller a suite se set			
Personal protective equipment	Dust mask		
Respiratory protection	: Dust mask		
Hand protection	: Protection gloves		
Eye protection Skin and body protection	 Protection eyeglasses or chemical safety goggles Long-sleeved work clothes, protective boots 		
General hygiene considerations	: Handle in accordance with good industrial hygiene and safety		
[9] PHYSICAL AND CHEMICAL PROPE	RTIES		
Appearance	: Liquid		
Color	Yellow		
Odor	: Alcohol odor		
Boiling point	: No data available (Ethanol : 78°C)		
Flammability	: Highly flammable liquid and vapor		
Upper/lower flammability or explosive limits	: Ethanol (Ethanol : 3.3 ~ 19.0 vol%)		
Flash point	: 15.5°C		
Auto-ignition temperature	: No data available (Ethanol : 371°C、Glycerol: 400°C)		
Decomposition temperature	: No data available		
pH Dynamia viacesity	$: 2.0 \sim 2.7$		
Dynamic viscosity Solubilities	: No data available : Water, ethanol (Very soluble)		
Vapor pressure	:Water、ethanol(Very soluble) :No data available		
Vapor density	: No data available		
Particle characteristics	: No data available		
(10) STABILITY AND REACTIVITY	· Stable under recommended storage conditions		
Stability Reactivity	 Stable under recommended storage conditions. No data available. 		
Reactivity Hazardous reactions			
Condition to avoid	 may cause ignition on contact with strong oxidizing agent. Extremes of temperature and direct sunlight, heat, flames and sparks 		
Incompatible material	: Strong oxidizing agent		
Hazardous decomposition produc			
hazaruous uecomposition produc	$\mathcal{L}_{\mathcal{L}}$. Carbon monovide (OC), Carbon dioxide (OC ₂)		

Oral Dermal	: Not cla	ssified	
		ication not possible	
Inhalation(vapor)		ication not possible	
Inhalation(dusts and i		ication not possible	
Chemical name	Oral LD50	Dermal LD50	Inhalation LC5
Ethanol	6200mg/kg (rat)	2000mg/kg(rabbit)	6300ppmV(rat)
Glycerol	12600mg/kg(rat)	>10g/kg(rabbit)	N/A
Citric acid	N/A	N/A	N/A
		;	•
Skin corrosion / irritatior	1 : Classifi	ication not possible	
		Ethanol	Not classified
		Glycerol	Not data availa
		Citric acid	Category 2
Serious eye damage / e	we irritation · Classifi	ication not possible	
Johodo Cyc dallaye / C	yo mitation , Olassin	Ethanol	Category 2A-2
		Glycerol	Category 2B
		Citric acid	Category 2A
Reproductive cell muta	genicity : Catego	ory 1B Ethanol Glycerol	Category 1B No data availal
		Citric acid	No data availal
Carainaganiaity	: Clossif	ination not possible	
Carcinogenicity	. Classiii	ication not possible Ethanol	Not classified
		Glycerol	No data availat
		Citric acid	No data availat
			<u> </u>
Reproductive toxicity	: Catego		CotogonidA
Reproductive toxicity	: Catego	Ethanol	Category 1A
Reproductive toxicity	: Catego	Ethanol Glycerol	No data availat
Reproductive toxicity	: Catego	Ethanol	
	_	Ethanol Glycerol Citric acid	No data availat No data availat
Specific target organ to:	_	Ethanol Glycerol Citric acid ory 3 (Respiratory tract in	No data availat No data availat ritation, Narcotic ef
	_	Ethanol Glycerol Citric acid ory 3 (Respiratory tract in Ethanol	No data availat No data availat ritation, Narcotic ef Category 1A
Specific target organ to:	_	Ethanol Glycerol Citric acid ory 3 (Respiratory tract in Ethanol Glycerol	No data availat No data availat ritation, Narcotic ef Category 1A No data availat
Specific target organ to:	_	Ethanol Glycerol Citric acid ory 3 (Respiratory tract in Ethanol	No data availat No data availat ritation, Narcotic ef Category 1A
Specific target organ to:	xicity - : Catego	Ethanol Glycerol Citric acid ory 3 (Respiratory tract in Ethanol Glycerol	No data availat No data availat ritation, Narcotic ef Category 1A No data availat
Specific target organ to:	_	Ethanol Glycerol Citric acid ory 3 (Respiratory tract in Ethanol Glycerol	No data No data ritation, Naro Categ No data

Aspiration hazard

Glycerol Citric acid

: No data available

No data available

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[12] ECOLOGICAL INFORMATION Ecotoxicity		
To algae / aquatic plants To Fish To Crustacean	: Ethanol; : Ethanol; Glycerol; : Ethanol;	EC50 Chlorella alga 1000mg/L 96h LC50 Oncorhychus mykiss 11200ppm 96h LC50 Gold fish > 5000mg/L 24h EC50Daphnia magna 5463mg/L 48h
Other data	: No data avail	able
Persistence and degradability	: Ethanol; : Glycerol;	Degree of decomposition 89% by BOD Degree of decomposition 77% by BOD (METI Existing chemical safety inspections)
Bioaccumulative potential Mobility in soil Hazard to the ozone layer	 No data available No data available No data available 	
[13] DISPOSAL CONSIDERATIONS		
Waste from residues		uld be in accordance with applicable regional, national s and regulations.
【14】 TRANSPORT INFORMATION International regulations Air Sea		accordance with ICAO-TI/IATA-DRG accordance with IMDG-DRG
UN No. Proper shipping name UN Classification Packing group Special precaution for user		ion iners from physical damage. Avoid rough handling urrent regulations and standards in your country.
(15) REGULATORY INFORMATION Japanese regulations Fire service act Poisonous and deleterious Substance control law Regulation for the carriage and strong of dangerous goods in ship Civil Aeronautics Law Pollutant release and transfer	glade 2, wate : Dangerous o : Dangerous A Should be no : Order for enfor	r harmful subject to be indicated their names, etc. rticles and harmful substances whose names,etc. tified. orcement of industrial safety and health act, Appended erous substances, (iv) Flammable substances. quids
register law	: Not applicabl	•
[16] OTHER INFORMATION References		a Chemical, Kyoritsu Shuppan Co., Ltd. al Institute of Technology and Evaluation(JAPAN))

The information contained herein is based on several references and the present state of our knowledge. However, the MSDS does not always cover all information about the product, handle the product carefully. The information is intended to ordinary usage, in case of particular handlings, conduct appropriate safety measurements. The information herein is only provision of information , and it does not represent a guarantee the properties of the product