



# SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 09-Oct-2024

Revision Number 1.08

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Sample Buffer Solution (2ME-) (x4)
Product Code	198-13282

Supplier FUJIFILM Wako Pure Chemical Corporation

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**Recommended uses** For research use only

**Restrictions on use**Seek expert judgment when using for purposes other than those recommended.

# **Section 2: HAZARDS IDENTIFICATION**

**GHS** classification

Classification of the substance or mixture

Acute toxicity - DermalCategory 3Skin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 1Specific target organ toxicity (single exposure)Category 2

Category 2 central nervous system

Acute aquatic toxicity Category 2

### **Pictograms**



## **Hazard statements**

H315 - Causes skin irritation

H318 - Causes serious eye damage

H311 - Toxic in contact with skin

H401 - Toxic to aquatic life

H371 - May cause damage to the following organs: central nervous system

# **Precautionary statements-(Prevention)**

- Wear protective gloves/protective clothing/eye protection/face protection
- · Wash face, hands and any exposed skin thoroughly after handling
- Do not breathe dust/fume/gas/mist/vapors/spray
- · Do not eat, drink or smoke when using this product
- Avoid release to the environment

# Precautionary statements-(Response)

- IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- · Immediately call a POISON CENTER or doctor/physician

- IF ON SKIN: Wash with plenty of soap and water
- Call a POISON CENTER or doctor/physician if you feel unwell
- · Remove/Take off immediately all contaminated clothing
- · Wash contaminated clothing before reuse
- If skin irritation occurs: Get medical advice/attention

## Precautionary statements-(Storage)

Store locked up

### **Precautionary statements-(Disposal)**

• Dispose of contents/container to an approved waste disposal plant

**Others** 

Other hazards Not available

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Mixture

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Water	52.3	18.02	N/A	N/A	7732-18-5
Glycerol	36.40	92.09	(2)-242	*	56-81-5
Sodium Dodecyl Sulfate	7.27	288.38	(2)-1679,(2)-1675	*	151-21-3
Tris(hydroxymethyl)amin omethane Hydrochloride		157.60	(1)-215,(2)-318	*	1185-53-1
Bromophenol Blue	0.02	669.96	(4)-907,(5)-3566	*	115-39-9

Note on ISHL No.: \* in the table means announced chemical substances.

## **Section 4: FIRST AID MEASURES**

## Inhalation

Remove to fresh air. If symptoms persist, call a physician.

### Skin contact

Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

## Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediate medical attention is required.

## Ingestion

Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.

### **Protection of first-aiders**

Use personal protective equipment as required.

# **Section 5: FIRE FIGHTING MEASURES**

## Suitable extinguishing media

Water spray (fog), Carbon dioxide (CO2), Foam, Extinguishing powder, Sand

## Unsuitable extinguishing media

No information available

# Specific hazards arising from the chemical product

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

## Special extinguishing method

No information available

## Special protective actions for fire-fighters

Use personal protective equipment as required. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

## Section 6: ACCIDENTAL RELEASE MEASURES

## Personal precautions, protective equipment and emergency procedures

For indoor, provide adequate ventilation process until the end of working. Deny unnecessary entry other than the people involved by, for example, using a rope. While working, wear appropriate protective equipments to avoid adhering it on skin, or inhaling the gas. Work from windward, and retract the people downwind.

## **Environmental precautions**

To be careful not discharged to the environment without being properly handled waste water contaminated.

### Methods and materials for contaminent and methods and materials for cleaning up

Absorb dry sand, earth, sawdust and the waste. Collect empty container that can be sealed.

### Recoverly, neutralization

No information available

### Secondary disaster prevention measures

Clean contaminated objects and areas thoroughly observing environmental regulations.

## Section 7: HANDLING AND STORAGE

### Handling

### **Technical measures**

Avoid contact with strong oxidizing agents. Use with local exhaust ventilation.

#### **Precautions**

Do not rough handling containers, such as upsetting, falling, giving a shock, and dragging. Prevent leakage, overflow, and scattering. Not to generate steam 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 not be brought contaminated protective equipment and gloves to rest stops. Deny unnecessary entry of non-emergency personnel to the handling area.

### Safety handling precautions

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

### Storage

Safe storage conditions

**Storage conditions** Keep container protect from light tightly closed. Store in a cool (2-10 °C) place.

Safe packaging material Glass

Incompatible substances Strong oxidizing agents

### Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Engineering controls**

In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and handand eye-wash facility. And display their position clearly.

## **Exposure limits**

Chemical Name	JSOH (Japan)	ISHL (Japan)	ACGIH
Glycerol	N/A	N/A	TWA 10mg/m 3 (vapor)
56-81-5			

### Personal protective equipment

Respiratory protection Protective mask

Hand protection chemical protective gloves (JIS T 8116)

**Eye protection** protective eyeglasses or chemical safety goggles (JIS T 8147)

Skin and body protection Long-sleeved work clothes

### **General hygiene considerations**

Handle in accordance with good industrial hygiene and safety practice.

If this product is classified as "Chemical Substances Hazardous to Skin, etc.", use appropriate protective equipment to them.

# **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Form** 

ColorBlueTurbidityclearAppearanceliquid

Odor
Melting point/freezing point
Boiling point, initial boiling point and boiling range
Flammability
Evaporation rate:
Flammability (solid, gas):

no data available
no data available
no data available
no data available

Upper/lower flammability or explosive limits

no data available Upper: no data available Lower: Flash point no data available **Auto-ignition temperature:** no data available no data available **Decomposition temperature:** 6.7 - 6.9 (25°C) рΗ Viscosity (coefficient of viscosity) no data available Dynamic viscosity no data available Solubilities no data available no data available n-Octanol/water partition coefficient:(log Pow) Vapour pressure no data available

Specific Gravity / Relative density 1.109 -1.115 g/m L (20 °C)

Vapour densityno data availableParticle characteristicsno data available

## **Section 10: STABILITY AND REACTIVITY**

## **Stability**

Reactivity no data available
Chemical stability May be altered by light.

**Hazardous reactions** 

None under normal processing

**Conditions to avoid** 

Extremes of temperature and direct sunlight

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

Carbon monooxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx), Halides, Sulfur oxides (SOx)

## **Section 11: TOXICOLOGICAL INFORMATION**

\*NITE: National Institute of Technology and Evaluation (JAPAN) https://www.chem-info.nite.go.jp/en/chem/chrip/chrip\_search/srhInput

**Acute toxicity** 

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Glycerol	12600 mg/kg ( Rat )	> 10 g/kg (Rabbit)	> 2.75 mg/L (Rat) 4 h
Sodium Dodecyl Sulfate	1,200 mg/kg ( Rat )	200 mg/kg (Rabbit)	> 3900 mg/m³ (Rat) 1 h

Chemical Name	_		Acute toxicity -inhalation gas-
	information	information	source information
Sodium Dodecyl Sulfate	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
	classification results.	classification results.	classification results.

Chemical Name	Acute toxicity -inhalation	Acute toxicity -inhalation dust-	Acute toxicity -inhalation mist-
	vapor- source information	source information	source information
Sodium Dodecyl Sulfate	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
•	classification results.	classification results.	classification results.

### Skin irritation/corrosion

Chemical Name	Skin corrosion/irritation source information
Sodium Dodecyl Sulfate	Based on the NITE GHS classification results.
Serious eye damage/ irritation	·
Chemical Name	Serious eye damage/irritation source information
Sodium Dodecyl Sulfate	Based on the NITE GHS classification results.
Respiratory or skin sensitization	
Chemical Name	Respiratory or Skin sensitization source information
Sodium Dodecyl Sulfate	Based on the NITE GHS classification results.
Reproductive cell mutagenicity	·
Chemical Name	germ cell mutagencity source information
Sodium Dodecyl Sulfate	Based on the NITE GHS classification results.
Carcinogenicity	·
Chemical Name	Carcinogenicity source information
Sodium Dodecyl Sulfate	Based on the NITE GHS classification results.

## Reproductive toxicity

Reproductive toxicity	
Chemical Name	Reproductive toxicity source information
Sodium Dodecyl Sulfate	Based on the NITE GHS classification results.

## **STOT-single exposure**

Chemical Name	STOT -single exposure- source information	
Sodium Dodecyl Sulfate	Based on the NITE GHS classification results.	

## **STOT-repeated exposure**

Chemical Name	STOT -repeated exposure- source information
Sodium Dodecyl Sulfate	Based on the NITE GHS classification results.

### **Aspiration hazard**

Chemical Name	Aspiration Hazard source information	
Sodium Dodecyl Sulfate	Based on the NITE GHS classification results.	

# **Section 12: ECOLOGICAL INFORMATION**

\*NITE: National Institute of Technology and Evaluation (JAPAN) https://www.chem-info.nite.go.jp/en/chem/chrip/chrip\_search/srhInput

## **Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Glycerol	N/A	LC50:Oncorhynchus mykiss	EC50:Daphnia magna
·		51 - 57 mL/L 96 h	500 mg/L 24 h
Sodium Dodecyl Sulfate	EC50:Desmodesmus subspicatus 53 mg/L 72 h	LC50:Oncorhynchus mykiss 4.3 - 8.5 mg/L 96 h	LC50 : Acartia tonsa 0.12 mg/L 96 h

### Other data

Chemical Name	Short-term (acute) hazardous to the	Long-term (chronic) hazardous to the
	aquatic environment source information	aquatic environment source information
		Based on the NITE GHS classification
	results.	results.

Persistence and degradability Bioaccumulative potential Mobility in soil Hazard to the ozone layer No information available No information available No information available No information available

# **Section 13: DISPOSAL CONSIDERATIONS**

### Waste from residues

Disposal should be in accordance with applicable regional, national and local laws and regulations.

### Contaminated container and contaminated packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

### Section 14: TRANSPORT INFORMATION

ADR/RID

UN number UN2810

Proper shipping name: Toxic liquid, organic, n.o.s. (Sodium Dodecyl Salfate Mixture)

UN classification 6.1

Subsidiary hazard class

Packing group

Marine pollutant Not applicable

**IMDG** 

UN number UN2810

Proper shipping name: Toxic liquid, organic, n.o.s. (Sodium Dodecyl Salfate Mixture)

UN classfication 6.1

Subsidiary hazard class

Packing group

Marine pollutant (Sea) Not applicable

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and

the IBC Code

IATA

UN number UN2810

Proper shipping name: Toxic liquid, organic, n.o.s. (Sodium Dodecyl Salfate Mixture)

UN classfication 6.1

Subsidiary hazard class

Packing group

Environmentally Hazardous Not applicable

**Substance** 

## Section 15: REGULATORY INFORMATION

Japanese regulations

Fire Service Act Not applicable
Poisonous and Deleterious Not applicable

**Substances Control Law** 

Industrial Safety and Health Act Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1)
Industrial Safety and Health Act ( 2025.4.1~ Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57)

<u>2025~)</u>

【2025.4.1~】Notifiable Substances (Law Art.57-2)

n of Priority Assessment Chemical Substances (Law Article 2, Para.5)

Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc

ances and

Regulations for the carriage

Toxic Substances - Poison (Ordinance Art.3, Ministry of Transportation Ordinance

and storage of dangerous Regarding Transport by Ship and Storage, Attached Table 1)

goods in ship

Civil Aeronautics Law Toxic and Infectious Substances (Ordinance Art.194, MITL Nortification for Air

Transportation of Explosives etc., Attached Table 1)

Pollutant Release and Transfer Class 1

Register Law (2023.4.1-)

Class 1 - No. 275

**Export Trade Control Order** Not applicable

Industrial Safety and Health Law

Law Name	Chemical Name in Regulation	Weight %	
Notifiable Substances (Law Art.57-2)	Sodium dodecyl sulfate	7.27	2025/4/1

Chemical Name	Poisonous and Deleterious Substances Control Law	Industrial Safety and Health Act Substances (Law Art.57-2)	Pollutant Release and Transfer Register Law (2023.4.1-)
Sodium Dodecyl Sulfate 151-21-3 ( 7.27 )	-	-	Applicable

## **Section 16: OTHER INFORMATION**

Key literature references and sources for data etc.

NITE: National Institute of Technology and Evaluation (JAPAN) https://www.chem-info.nite.go.jp/en/chem/chrip/chrip\_search/srhInput

IATA dangerous Goods Regulations

RTECS:Registry of Toxic Effects of Chemical Substances
Japan Industrial Safety and Health Association GHS Model SDS

Dictionary of Synthetic Oraganic Chemistry , SSOCJ, Koudansha Scientific Co.Ltd.

Chemical Dictionary, Kyouritsu Publishing Co., Ltd.

etc

**Record of SDS revisions** 

The following contents were revised. Composition/information on ingredients. Regulatory

information.

### **Disclaimer**

This SDS is according to JIS Z 7253: 2019. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

GHS Classification is according to JIS Z 7252:2019. \*JIS: Japanese Industrial Standards

**End of Safety Data Sheet**