



# SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 07-Nov-2023

Revision Number 2.02

### Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product NameSulfate Ion Standard Solution (SO42- 1000)Product Code198-10823

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

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)

**Pictograms** 

Signal word None

#### **Hazard statements**

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)

#### **Precautionary statements-(Prevention)**

Not applicable

## Precautionary statements-(Response)

Not applicable

### Precautionary statements-(Storage)

Not applicable

### Precautionary statements-(Disposal)

Not applicable

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	99.85	18.02	N/A	N/A	7732-18-5
Sodium Sulfate	0.15	142.04	(1)-501	*	7757-82-6

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

Impurities and/or Additives: Not applicable

## **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

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

### 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**

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 Store away from sunlight in well-ventilated place at room temperature (under 25 °C).

Keep container tightly closed.

Safe packaging material Glass

Incompatible substances No information available

### 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 This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

Personal protective equipment

Respiratory protection Protective mask

**Hand protection** chemical protective gloves ( JIS T 8116 ) **Eye protection** protective eyeglasses or chemical safety goggles

Skin and body protection Long-sleeved work clothes

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

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

**Form** 

ColorcolorlessTurbidityclearAppearanceliquid

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

Upper:
Lower:
no data available
pH
neutral

Viscosity (coefficient of viscosity) no data available

Dynamic viscosity no data available

**Solubilities** water and Ethanol : Miscible at any arbitrary ratio .

n-Octanol/water partition coefficient:(log Pow)
No data available
Napour pressure
No data available
Napour density
Napour density
No data available
Particle characteristics
No data available
No data available

### Section 10: STABILITY AND REACTIVITY

### Stability

Reactivity no data available

Chemical stability Stable under recommended storage conditions.

**Hazardous reactions** 

None under normal processing

### **Conditions to avoid**

Extremes of temperature and direct sunlight

### Incompatible materials

No information available

### **Hazardous decomposition products**

Sulfur oxides (SOx)

## **Section 11: TOXICOLOGICAL INFORMATION**

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Acute	to.	VIC	1111
Acute	w	AI U	·ILV

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium Sulfate	> 10000 mg/kg ( Rat )	N/A	N/A

city -oral- source   Acute toxicity	dominal ocurso / noute to	xicity -inhalation gas-
ormation info	rmation soi	urce information
		the NITE GHS
	NITE GHS Based on the N	NITE GHS Based on the NITE GHS Based on

Chemical Name	Acute toxicity -inhalation vapor- source information	Acute toxicity -inhalation dust- source information	Acute toxicity -inhalation mist- source information
Codiam Canate			Based on the NITE GHS classification results.

### Skin irritation/corrosion

Chemical Name	Skin corrosion/irritation source information	
Sodium Sulfate	Based on the NITE GHS classification results.	
Sprious ava damaga/irritation		

Serious eye damage/ irritation

Chemical Name	Serious eye damage/irritation source information
Sodium Sulfate	Based on the NITE GHS classification results.

Respiratory or skin sensitization

Chemical Name	Respiratory or Skin sensitization source information
Sodium Sulfate	Based on the NITE GHS classification results.

Reproductive cell mutagenicity

Chemical Name	geriii cen mutagencity source information
Sodium Sulfate	Based on the NITE GHS classification results.
Carcinogenicity	

Carcinogenicity

Chemical Name	Carcinogenicity source information
Sodium Sulfate	Based on the NITE GHS classification results.

Reproductive toxicity

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

STOT-single exposure

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

Chemical Name

Sodium Sulfate	Based on the NITE GHS classification results.	
Aspiration hazard		

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

# **Section 12: ECOLOGICAL INFORMATION**

## **Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Sodium Sulfate	EC50 : Selenastrum	LC50 : Fathead minnow	EC50 : Ceriodaphnia dubia
	capricornutum	7960 mg/L 96 h	3150.21 mg/L 48 h

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STOT -repeated exposure- source information

1584.583 mg/L 72 h	

### Other data

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

Persistence and degradability
Bioaccumulative potential
Mobility in soil
Hazard to the ozone layer

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 Not regulated

UN number -

Proper shipping name: UN classfication Subsidiary hazard class

Packing group

Marine pollutant Not applicable

IMDG Not regulated

UN number -

Proper shipping name: UN classfication 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 Not regulated

UN number

Proper shipping name: UN classfication Subsidiary hazard class Packing group

**Environmentally Hazardous** 

Not applicable

Substance

## **Section 15: REGULATORY INFORMATION**

Japanese regulations

Fire Service Act
Poisonous and Deleterious
Substances Control Law
Industrial Safety and Health Act Not applicable

Industrial Safety and Health Act Not applicable Regulations for the carriage Not applicable

and storage of dangerous

goods in ship

**Civil Aeronautics Law** 

Not applicable

**Marine Pollution Prevention** 

Enforcement ordinance Appendix No. 1 Noxious liquid substance Category Z

Law

Pollutant Release and Transfer Not applicable

**Register Law** 

(2023.4.1-)

**Export Trade Control Order** Not applicable

### **Section 16: OTHER INFORMATION**

Key literature references and sources for data etc.

NITE: National Institute of Technology and Evaluation (JAPAN)

http://www.safe.nite.go.jp/japan/db.html

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. Prodauct and company Identification. Exposure

controls/personal protection. Toxicological information. Ecological information.

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**