



SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 26-Feb-2024 Revision Number 6.04

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Sodium Peroxodisulfate
Product Code	195-04985

FUJIFILM Wako Pure Chemical Corporation **Supplier**

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Phone: +81-6-6203-3741 Fax: +81-6-6203-2029

+81-6-6203-3741 / +81-3-3270-8571 **Emergency telephone number**

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

Category 3 **Oxidizing solids Acute toxicity - Oral** Category 4 Category 1 Respiratory sensitization Skin sensitization Category 1 Category 2, Category 3

Specific target organ toxicity (single exposure)

Category 2 systemic toxicity Category 3 Respiratory irritation

Pictograms



Hazard statements

H272 - May intensify fire; oxidizer

H302 - Harmful if swallowed

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

H335 - May cause respiratory irritation H317 - May cause an allergic skin reaction

H371 - May cause damage to the following organs: systemic toxicity

Precautionary statements-(Prevention)

- · Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- In case of inadequate ventilation wear respiratory protection
- · Contaminated work clothing should not be allowed out of the workplace
- Do not breathe dust/fume/gas/mist/vapors/spray
- · Use only outdoors or in a well-ventilated area
- · Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
- · Keep/Store away from clothing/ combustible materials

- · Take any precaution to avoid mixing with combustibles
- · Wear protective gloves/protective clothing/eye protection/face protection

Precautionary statements-(Response)

- IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician
- IF ON SKIN: Wash with plenty of soap and water
- If skin irritation or rash occurs: Get medical advice/attention
- · Wash contaminated clothing before reuse
- If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- · Rinse mouth

Precautionary statements-(Storage)

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

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 Substance

Formula Na2S2O8

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Sodium Peroxodisulfate	97.0	238.10	(1)-1131	*	7775-27-1

Note on ISHL No.:

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

Flood with water, Sand

Unsuitable extinguishing media

Powder, Foam, Carbondioxide

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

^{*} in the table means announced chemical substances.

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

Sweep up and gather scattered particles, and collect it in an empty airtight container.

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 reducing agents and combustible materials. 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

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

Storage

Safe storage conditions

Storage conditions Keep container protect from light, store

in well-ventilated place at room temperature (preferably cool). Keep container tightly

closed.

Safe packaging material Polypropylene

Incompatible substances Strong acids, Organic substance, Combustible materials, Reducing agent,

Organometallics

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
Sodium Peroxodisulfate	N/A	N/A	TWA: 0.1 mg/m³ persulfate
7775-27-1			

Personal protective equipment

Respiratory protection Dust mask (JIS T 8151)

Hand protection chemical protective gloves (JIS T 8116)

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

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

White - slightly yellow Color **Appearance** crystals - crystalline powder

no data available Odor Melting point/freezing point 150 °C

Boiling point, initial boiling point and boiling range no data available no data available **Flammability Evaporation rate:** no data available

Flammability (solid, gas): no data available

Upper/lower flammability or explosive limits

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

Specific Gravity / Relative density 2.4

Vapour density no data available **Particle characteristics** no data available

Section 10: STABILITY AND REACTIVITY

Stability

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

Hazardous reactions

None under normal processing

Conditions to avoid

Extremes of temperature and direct sunlight, Moisture

Incompatible materials

Strong acids, Organic substance, Combustible materials, Reducing agent, Organometallics

Hazardous decomposition products

Sulfur oxides (SOx)

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium Peroxodisulfate	895 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	> 21.6 mg/L (Rat)4 h

Chemical Name			Acute toxicity -inhalation gas-
	information	information	source information
Sodium Peroxodisulfate	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 vapor- source information	source information	Acute toxicity -inhalation mist- source information	
Sodium Peroxodisulfate	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS	
	classification results.	classification results.	classification results.	
Skin irritation/corrosion				
Chemica	I Name	Skin corrosion/irritat	ion source information	
Sodium Pero	oxodisulfate	Based on the NITE GHS classif	ication results.	
Serious eye damage/ irritation				
Chemica	I Name	Serious eye damage/irr	itation source information	
Sodium Pero	oxodisulfate	Based on the NITE GHS classif	ication results.	
Respiratory or skin sensitization				
Chemica	I Name		itization source information	
Sodium Peroxodisulfate		Based on the NITE GHS classification results.		
Reproductive cell mutagenicity				
Chemical Name			ity source information	
Sodium Peroxodisulfate		Based on the NITE GHS classif	ication results.	
Carcinogenicity				
Chemica	I Name		source information	
Sodium Peroxodisulfate		Based on the NITE GHS classif	ication results.	
Reproductive toxicity				
Chemica	I Name	Reproductive toxic	ty source information	
Sodium Pero	oxodisulfate	Based on the NITE GHS classification results.		
STOT-single exposure		·		
Chemica	I Name	STOT -single exposu	re- source information	
Sodium Pero	oxodisulfate	Based on the NITE GHS classif	ication results.	
STOT-repeated exposure		·		
Chemica	I Name		sure- source information	
Sodium Pero		Based on the NITE GHS classif	ication results.	
Aspiration hazard		•		
Chemica	Il Name	Aspiration Hazard	I source information	

Section 12: ECOLOGICAL INFORMATION

Based on the NITE GHS classification results.

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Sodium Peroxodisulfate	ErC50 : Pseudokirchneriella subcapitata >1,000 mg/L 72 h	LC50 : Oryzias latipes >100 mg/L 96 h	EC50 : Daphnia magna 133 mg/L 48 h

Other data

Other data		
Chemical Name	Short-term (acute) hazardous to the	Long-term (chronic) hazardous to the
	aquatic environment source information	aquatic environment source information
Sodium Peroxodisulfate	Based on the NITE GHS classification	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

Chemical Name
Sodium Peroxodisulfate

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 UN1505

Proper shipping name: Sodium persulphate

UN classfication 5.1

Subsidiary hazard class

Packing group

Marine pollutant Not applicable

IMDG

UN number UN1505

Sodium persulphate Proper shipping name:

UN classfication

Subsidiary hazard class

Packing group Ш

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 UN1505

Proper shipping name: Sodium persulphate

UN classfication

Subsidiary hazard class

Packing group Ш

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 Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57)

Notifiable Substances (Law Art.57-2)

Industrial Safety and Health Act (<u>2024~)</u>

【2024.4.1~】Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1)

Oxidizing Agents - Oxidizing Agents (Ordinance Art.3, Ministry of Transportation

Ordinance Regarding Transport by Ship and Storage, Attached Table 1)

Regulations for the carriage and storage of dangerous

goods in ship

Civil Aeronautics Law Oxidizing Agents - Oxidizing Agents (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-)

395 Class 1 - No.

Export Trade Control Order Not applicable

Air Pollution Control Law Hazardous Air Pollutants

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 Peroxodisulfate 7775-27-1 (97.0)	-	Applicable	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 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 Disclaimer

The following contents were revised. Regulatory information.

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