



# SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 26-Feb-2024 Revision Number 2.04

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Sodium Peroxoborate Tetrahydrate	
Product Code	193-02725	
Supplier	FUJIFILM Wako Pure Chemical Corporation 1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741 Fax: +81-6-6203-2029	
Emergency telephone number Recommended uses Restrictions on use	+81-6-6203-3741 / +81-3-3270-8571 For research use only Seek expert judgment when using for purposes other than those recommended.	

# Section 2: HAZARDS IDENTIFICATION

GHS classification <u>Classification of the substance or mixture</u> Serious eye damage/eye irritation Reproductive Toxicity Acute aquatic toxicity Chronic aquatic toxicity

Pictograms



#### Hazard statements

- H318 Causes serious eye damage
- H361 Suspected of damaging fertility or the unborn child
- H401 Toxic to aquatic life
- H411 Toxic to aquatic life with long lasting effects

## Precautionary statements-(Prevention)

- · Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood
- Use personal protective equipment as required
- · Avoid release to the environment

## Precautionary statements-(Response)

- IF exposed or concerned: Get medical advice/attention
- 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
- Collect spillage

### 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 Substance

Formula

NaBO3-4H2O

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Sodium Peroxoborate	95.0	153.86	(1)-826	公表	10486-00-7
Tetrahydrate					

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** 

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. Avoid contact with organic substance 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	Store away from sunlight in a cool (2-10 °C) well-ventilated dry place.
Safe packaging material	Polyethylene
Incompatible substances	Reducing agent, Organic substance, Combustible materials
•	

# 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
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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

Hand protection Eye protection Dust mask ( JIS T 8151 ) chemical protective gloves (JIS T 8116) protective eyeglasses or chemical safety goggles (JIS T 8147) Long-sleeved work clothes

#### Skin and body protection 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 Color Appearance Odor Melting point/freezing point Boiling point, initial boiling point and boiling range Flammability Evaporation rate: Flammability (solid, gas):

white crystals - crystalline powder no data available 60 °C no data available no data available no data available no data available Upper/lower flammability or explosive limits Upper: Lower: Flash point Auto-ignition temperature: Decomposition temperature: pH Viscosity (coefficient of viscosity) Dynamic viscosity Solubilities

n-Octanol/water partition coefficient:(log Pow) Vapour pressure Specific Gravity / Relative density Vapour density Particle characteristics no data available basic (aq.) no data available no data available water : slightly slightly soluble . Ethanol : practically insoluble,or insoluble . 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
 Stable under recommended storage conditions.

 None under normal processing
 Conditions to avoid

 Conditions to avoid
 stable under recommended storage conditions.

 Extremes of temperature and direct sunlight
 Incompatible materials

 Reducing agent, Organic substance, Combustible materials
 Hazardous decomposition products

 Boron oxide, Metal oxides
 Stable under recommended storage conditions.

# Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity			
Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium Peroxoborate	1200 mg/kg (Rat)	N/A	N/A
Tetrahydrate	2567 mg/kg (Rat)		

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
Sodium Peroxoborate Tetrahydrate	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 Peroxoborate Tetrahydrate			Based on the NITE GHS classification results.

# Skin irritation/corrosion

Chemical Name	Skin corrosion/irritation source information	
Sodium Peroxoborate Tetrahydrate	Based on the NITE GHS classification results.	
Serious eye damage/ irritation		
Chemical Name	Serious eye damage/irritation source information	
Sodium Peroxoborate Tetrahydrate	Based on the NITE GHS classification results.	
Respiratory or skin sensitization		
Chemical Name	Respiratory or Skin sensitization source information	
Sodium Peroxoborate Tetrahydrate	Based on the NITE GHS classification results.	

Reproductive	cell	mutagenicity
Reproductive	CCII	mulayementy

Chemical Name	germ cell mutagencity source information
Sodium Peroxoborate Tetrahydrate	Based on the NITE GHS classification results.
Carcinogenicity	
Chemical Name	Carcinogenicity source information
Sodium Peroxoborate Tetrahydrate	Based on the NITE GHS classification results.
Reproductive toxicity	
Chemical Name	Reproductive toxicity source information
Sodium Peroxoborate Tetrahydrate	Based on the NITE GHS classification results.
STOT-single exposure	
Chemical Name	STOT -single exposure- source information
Sodium Peroxoborate Tetrahydrate	Based on the NITE GHS classification results.
STOT-repeated exposure	
Chemical Name	STOT -repeated exposure- source information
Sodium Peroxoborate Tetrahydrate	Based on the NITE GHS classification results.
Aspiration hazard	
Chemical Name	Aspiration Hazard source information
Sodium Peroxoborate Tetrahydrate	Based on the NITE GHS classification results.

# Section 12: ECOLOGICAL INFORMATION

#### Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Sodium Peroxoborate	N/A	N/A	EC50 : Ceriodaphnia dubia
Tetrahydrate			6.98 mg/L 48h

#### 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 Peroxoborate Tetrahydrate	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 No information available

# Section 13: DISPOSAL CONSIDERATIONS

#### Waste from residues

**UN number** 

**UN classfication** 

Packing group

Marine pollutant

Proper shipping name:

Subsidiary hazard class

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

1	JN	30	77

Yes

Environmentally hazardous substance, solid, n.o.s. (Sodium Peroxoborate Tetrahydrate) 9 III

#### IMDG

UN number Proper shipping name: UN classfication Subsidiary hazard class Packing group Marine pollutant (Sea) Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	UN3077 Environmentally hazardous substance, solid, n.o.s. (Sodium Peroxoborate Tetrahydrate) 9 III Yes No information available
IATA UN number Proper shipping name: UN classfication Subsidiary hazard class Packing group Environmentally Hazardous Substance	UN3077 Environmentally hazardous substance, solid, n.o.s. (Sodium Peroxoborate Tetrahydrate) 9 III Yes

# Section 15: REGULATORY INFORMATION

Japanese regulations	
Fire Service Act	Not applicable
Poisonous and Deleterious	Not applicable
Substances Control Law	
Industrial Safety and Health Act	t Not applicable
Industrial Safety and Health Act (	[2024.4.1~] Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1)
<u>2024~)</u>	
Regulations for the carriage	Noxious Substances (Ordinance Art.3, Ministry of Transportation Ordinance Regarding
and storage of dangerous	Transport by Ship and Storage, Attached Table 1)
goods in ship	
Civil Aeronautics Law	Misellaneous Dangerous Substances and Articles (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.	405
Water Pollution Control Act	Harmful Substances (Law Art.2, Enforcement Order Art.2, Ordinace Designating
	Wastewater Standards Art.1)
Export Trade Control Order	Not applicable
Air Pollution Control Law	Hazardous Air Pollutants
Soil Contamination Control Lav	vDesignated Hazardous Substances

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 Peroxoborate Tetrahydrate 10486-00-7 (95.0)	-	-	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