



# SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 11-Sep-2024

Revision Number 6.04

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Nitrite Ion Standard Solution (NO2- 1000)
Product Code	146-06453

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** +81-6-6203-3741 / +81-3-3270-8571

**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

Reproductive Toxicity

Category 2 (additional)

#### **Pictograms**



Signal word

Warning

#### **Hazard statements**

H361 - Suspected of damaging fertility or the unborn child

H362 - May cause harm to breast-fed children

#### **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

# Precautionary statements-(Response)

• IF exposed or concerned: 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	99.85	18.02	N/A	N/A	7732-18-5
Sodium nitrite	0.15	69.00	(1)-483	*	7632-00-0

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

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** 

<sup>\*</sup> in the table means announced chemical substances.

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 and eyes Use personal protective equipment as required.

Storage

Safe storage conditions

Storage conditions Keep container protect from light and tightly closed in well ventilated cool place under

25°C Glass

Safe packaging material

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 (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

Color colorless
Turbidity clear
Appearance liquid

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 **Decomposition temperature:** no data available рΗ Nearly 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 Vapour pressure no data available Specific Gravity / Relative density Vapour density Particle characteristics

no data available no data available no data available

# **Section 10: STABILITY AND REACTIVITY**

### **Stability**

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

Hazardous reactions

None under normal processing

**Conditions to avoid** 

Extremes of temperature and direct sunlight

Incompatible materials

No information available

**Hazardous decomposition products** 

Nitrogen oxides (NOx)

# **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

Sodium nitrite

**Acute toxicity** 

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium nitrite	85 mg/kg (Rat)	N/A	5.5 mg/m <sup>3</sup> (Rat) 4 h

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

Chemical Name	Acute toxicity -inhalation vapor- source information	Acute toxicity -inhalation dust- source information	Acute toxicity -inhalation mist- source information
Sodium nitrite	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 nitrite	Based on the NITE GHS classification results.
Sorious ava damago/irritation	

Serious eye damage/ irritation

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

Respiratory or skin sensitization

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

Reproductive cell mutagenicity **Chemical Name** 

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

Reproductive toxicity

Chemical Name	Reproductive toxicity source information	
Sodium nitrite	Based on the NITE GHS classification results.	
STOT-single exposure		
Ol and the LNI and	OTOT simula some some single model in	

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

germ cell mutagencity source information

Based on the NITE GHS classification results.

Chemical Name	STOT -repeated exposure- source information
Sodium nitrite	Based on the NITE GHS classification results.
Aspiration hazard	
Ol and the I North	Assissing Hamped serves information

Chemical Name	Aspiration Hazard source information
Sodium nitrite	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
Sodium nitrite	N/A	LC50 : Oncorhynchus mykiss	N/A
		0.54 mg/L 96 h	

#### Other data

<del></del>						
Chemical Name	Chemical Name Short-term (acute) hazardous to the					
	aquatic environment source information	aquatic environment source information				
Sodium nitrite	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

# **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

Not applicable Fire Service Act **Poisonous and Deleterious** Not applicable **Substances Control Law** 

Industrial Safety and Health Act Not applicable

Industrial Safety and Health Act ( [2025.4.1~] Notifiable Substances (Law Art.57-2)

2025~)

Regulations for the carriage and storage of dangerous

Not applicable

Not applicable

goods in ship

**Civil Aeronautics Law** Not applicable Pollutant Release and Transfer Not applicable

**Register Law** (2023.4.1-)

**Water Pollution Control Act** Harmful Substances (Law Art.2, Enforcement Order Art.2, Ordinace Designating

Wastewater Standards Art.1)

**Export Trade Control Order** 

**Industrial Safety and Health Law** 

Law Name	Chemical Name in Regulation	Weight %			
Notifiable Substances (Law Art.57-2)	Sodium nitrite	0.15	2025/4/1		

# **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 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**