



# 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 Hydrogen Sulfite		
Product Code	193-01387,197-01385		
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 Classification of the substance or mixture Acute toxicity - Oral **Respiratory sensitization** Skin sensitization Specific target organ toxicity (single exposure) Category 3 Respiratory irritation Specific target organ toxicity (repeated exposure) Category 1 respiratory system

Category 4 Category 1 Category 1 Category 3

Category 1

**Pictograms** 



Signal word

Danger

#### **Hazard statements**

- 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
- H372 Causes damage to the following organs through prolonged or repeated exposure: respiratory system

#### **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
- · Wear protective gloves
- Do not breathe dust/fume/gas/mist/vapors/spray
- · Use only outdoors or in a well-ventilated area

#### **Precautionary statements-(Response)**

· Get medical advice/attention if you feel unwell

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

- 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
Sodium Hydrogen Sulfite	60.7	104.06	(1)-502	*	7631-90-5
Sodium Disulfite	39.7	190.11	(1)-502	*	7681-57-4
Note on ISHL No.: * in the table means announced chemical substances.					

Mixture of Sodium Hydrogen Sulfite and Sodium Disulfite which contains 58.5+% as SO2.

### 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. See Section 12 for additional ecological information.

#### 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 strong oxidizing agents. Avoid contact with strong acids. 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.

#### <u>Storage</u>

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	Polyethylene
Incompatible substances	Strong oxidizing agents, Strong acids

### 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 Hydrogen Sulfite 7631-90-5	N/A	N/A	TWA: 5 mg/m <sup>3</sup>
Sodium Disulfite 7681-57-4	N/A	N/A	TWA: 5 mg/m <sup>3</sup>

#### Personal protective equipment Respiratory protection Hand protection

Skin and body 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

#### **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 Wi	hite - nearly white
Appearance cry	/stalline powder - powder
Odor Su	Ifur dioxide odor
Melting point/freezing point no	data available
Boiling point, initial boiling point and boiling range no	data available
Flammability no	data available
Evaporation rate: no	data available
Flammability (solid, gas): no	data available
Upper/lower flammability or explosive limits	
Upper: no	data available
Lower: no	data available
Flash point no	data available
	data available
Decomposition temperature: no	data available
pH ac	idic (aq.)
	data available
- ,	data available
	ter : free soluble . Ethanol : practically insoluble,or insoluble .
	data available
Vapour pressure no	data available
Specific Gravity / Relative density 1.4	18
Vapour density no	data available
Particle characteristics no	data available

# Section 10: STABILITY AND REACTIVITY

#### Stability

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

has a strong reducing action. reacts with strong acids, to generate harmful sulfur dioxide gas.

Conditions to avoid

Extremes of temperature and direct sunlight

Incompatible materials

Strong oxidizing agents, Strong acids

### Hazardous decomposition products

Sulfurous acid gas, Sulfur oxides (SOx)

# Section 11: TOXICOLOGICAL INFORMATION

#### Acute toxicity

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Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium Hydrogen Sulfite	1,400 - 2,000 mg/kg( Rat )	N/A	N/A
Sodium Disulfite	1540 mg/kg (Rat)	> 2000 mg/kg(Rat)	N/A

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

Sodium Disulfite	Based on the NITE GHS classification results.		Based on the NITE GHS classification results.
Chemical Name	Acute toxicity -inhalation		Acute toxicity -inhalation mist-
	vapor- source information	source information	source information
Sodium Hydrogen Sulfite	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
, , ,	classification results.	classification results.	classification results.
Sodium Disulfite	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 Hydrogen Sulfite	Based on the NITE GHS classification results
Sodium Disulfite	Based on the NITE GHS classification results.
Serious eye damage/ irritation	
Chemical Name	Serious eye damage/irritation source information
Sodium Hydrogen Sulfite	Based on the NITE GHS classification results.
Sodium Disulfite	Based on the NITE GHS classification results.
Respiratory or skin sensitization	
Chemical Name	Respiratory or Skin sensitization source information
Sodium Hydrogen Sulfite	Based on the NITE GHS classification results.
Sodium Disulfite	Based on the NITE GHS classification results.
Reproductive cell mutagenicity	
Chemical Name	germ cell mutagencity source information
Sodium Hydrogen Sulfite	Based on the NITE GHS classification results
Sodium Disulfite	Based on the NITE GHS classification results.
Carcinogenicity	
Chemical Name	Carcinogenicity source information
Sodium Hydrogen Sulfite	Based on the NITE GHS classification results
Sodium Disulfite	Based on the NITE GHS classification results.

Chemical Name	NTP	IARC	ACGIH	JSOH (Japan)
Sodium Hydrogen Sulfite 7631-90-5	-	Group 3	-	-
Sodium Disulfite 7681-57-4	-	Group 3	-	-

**Reproductive toxicity** 

Chemical Name	Reproductive toxicity source information
Sodium Hydrogen Sulfite	Based on the NITE GHS classification results
Sodium Disulfite	Based on the NITE GHS classification results.
STOT-single exposure	
Chemical Name	STOT -single exposure- source information
Sodium Hydrogen Sulfite	Based on the NITE GHS classification results
Sodium Disulfite	Based on the NITE GHS classification results.
STOT-repeated exposure	
Chemical Name	STOT -repeated exposure- source information
Sodium Hydrogen Sulfite	Based on the NITE GHS classification results
Sodium Disulfite	Based on the NITE GHS classification results.
Aspiration hazard	
Chemical Name	Aspiration Hazard source information
Sodium Hydrogen Sulfite	Based on the NITE GHS classification results.
Sodium Disulfite	Based on the NITE GHS classification results.

# Section 12: ECOLOGICAL INFORMATION

### Ecotoxicity

Chemical Name	Algae/aguatic plants	Fish	Crustacea

Sodium Hydrogen Sulfite	N/A	LC50:Gambusia affinis 240 mg/L 96 h	EC50:Daphnia magna 119 mg/L 48 h
Sodium Disulfite	EC50 : Scenedesmus subspicatus 48.1 mg/L 72 h	LC50:Lepomis macrochirus 32 mg/L 96 h	EC50:Daphnia magna 88.76 mg/L 48 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	
Sodium Hydrogen Sulfite	Based on the NITE GHS classification	Based on the NITE GHS classification	
	results	results	
Sodium Disulfite	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

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 Proper shipping name: UN classfication Subsidiary hazard class Packing group	Not regulated -
Marine pollutant	Not applicable
IMDG UN number Proper shipping name: UN classfication Subsidiary hazard class Packing group	Not regulated -
Marine pollutant (Sea) Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable No information available
IATA UN number Proper shipping name: UN classfication Subsidiary hazard class Packing group	Not regulated -
Environmentally Hazardous Substance	Not applicable

# Section 15: REGULATORY INFORMATION

Japanese regulations

Fire Service Act Poisonous and Deleterious	Not applicable Not applicable
Substances Control Law	
Industrial Safety and Health Ac	t 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 ( 2024~)	[2024.4.1~] Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1)
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

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 Hydrogen Sulfite 7631-90-5 ( 60.7 )	-	Applicable	-
Sodium Disulfite 7681-57-4(39.7)	-	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	The following contents were revised. Regulatory information.

#### Record of SDS revisions 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