



SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 10-Jul-2023 Revision Number 3.05

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Sodium Selenite
Product Code	190-10844,196-10841,194-10842,192-10843
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	
Acute toxicity - Oral	Category 2
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Germ cell mutagenicity	Category 2
Reproductive Toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 1
Category 1 central nervous system, respiratory system, heart, liver, kidneys,	Digestive tract
Specific target organ toxicity (repeated exposure)	Category 1
Category 1 skin, hair, claw, teeth, central nervous system, blood system, live	r, kidneys, Male reproductive organ
Acute aquatic toxicity	Category 2
Chronic aquatic toxicity	Category 1

Pictograms



Hazard statements

- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H300 Fatal if swallowed
- H341 Suspected of causing genetic defects
- H361 Suspected of damaging fertility or the unborn child
- H410 Very toxic to aquatic life with long lasting effects
- H401 Toxic to aquatic life

H370 - Causes damage to the following organs: central nervous system, respiratory system, heart, liver, kidneys, Digestive tract

H372 - Causes damage to the following organs through prolonged or repeated exposure: skin, hair, claw, teeth, central nervous system, blood system, liver, kidneys, Male reproductive organ

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
- · Do not breathe dust/fume/gas/mist/vapors/spray
- Wash face, hands and any exposed skin thoroughly after handling
- · Do not eat, drink or smoke when using this product

Avoid release to the environment

Precautionary statements-(Response)

- · IF exposed: Call a POISON CENTER or doctor/physician
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- If eye irritation persists: Get medical advice/attention
- · IF ON SKIN: Wash with plenty of soap and water
- If skin irritation occurs: Get medical advice/attention
- Take off contaminated clothing and wash before reuse
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- Rinse mouth
- Collect spillage

Precautionary statements-(Storage)

Store locked up

Precautionary statements-(Disposal)

· Dispose of contents/container to an approved waste disposal plant

Others

Other hazards

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Substance

Formula

Na2SeO3

Not available

Chemical Name Weight-% Molecular weight ENCS ISHL No. CAS RN Sodium Selenite(IV) 97.0 172.94 (1)-507 * 10102-18-8

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

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 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.

Storage

Safe storage conditions	
Storage conditions	Keep container protect from light and tightly closed in well ventilated cool place under 25°C Store locked up.
Safe packaging material	Polyethylene
Incompatible substances	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 Selenite(IV) 10102-18-8	TWA: 0.1 mg/m ³ OEL	N/A	TWA: 0.2 mg/m ³ Se

Personal protective equipment Respiratory protection

Dust mask (JIS T 8151)

Hand protection Eye protection Skin and body protection

chemical protective gloves (JIS T 8116) protective eyeglasses or chemical safety goggles Long-sleeved work clothes

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

white
crystalline powder - powder
no data available
710 °C
no data available
no data available
water : soluble .
no data available

Section 10: STABILITY AND REACTIVITY

Stability

Reactivity no data available Chemical stability May be altered by light. **Hazardous reactions** None under normal processing Conditions to avoid Extremes of temperature and direct sunlight Incompatible materials Strong acids Hazardous decomposition products Metal oxides

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium Selenite(IV)	10.5 - 15.3 mg/kg(Rat)	N/A	N/A

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
Sodium Selenite(IV)	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
			Based on the NITE GHS classification results.

Skin irritation/corrosion				
Chemical Name		Skin corrosion/irritation source information		
Sodium Selenite(IV)		Based on the NITE GH	S classification res	sults.
Serious eye damage/ irritation				
Chemical Name			nage/irritation so	
Sodium Selenite(IV)		Based on the NITE GH	S classification rea	sults.
Respiratory or skin sensitization				
Chemical Name		Respiratory or Sk	in sensitization s	ource information
Sodium Selenite(IV)		Based on the NITE GH	S classification rea	sults.
Reproductive cell mutagenicity				
Chemical Name		germ cell m	utagencity source	e information
Sodium Selenite(IV)		Based on the NITE GH	S classification res	sults.
Carcinogenicity				
Chemical Name		Carcinogenicity source information		
Sodium Selenite(IV)		Based on the NITE GHS classification results.		
Chemical Name	NTP	IARC	ACGIH	JSOH (Japan)
Sodium Selenite(IV) 10102-18-8		Group 3		
Reproductive toxicity		•		
Chemical Name		Reproductive toxicity source information		
Sodium Selenite(IV)		Based on the NITE GHS classification results.		
STOT-single exposure				
Chemical Name		STOT -single exposure- source information		
Sodium Selenite(IV)		Based on the NITE GHS classification results.		
STOT-repeated exposure		•		
Chemical Name		STOT -repeated exposure- source information		
Sodium Selenite(IV)		Based on the NITE GHS classification results.		
Aspiration hazard		·		
Chemical Name		Aspiration Hazard source information		
Sodium Selenite(IV)		Aspiration	i nazaru source i	mormation

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Sodium Selenite(IV)	N/A	N/A	LC50 : Gammarus fasciatus
			1.48 mg/L 96 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
Sodium Selenite(IV)	Based on the NITE GHS classification results.	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 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 Marine pollutant	UN2630 Selenites (Sodium Selenite) 6.1 I Yes
IMDG	
UN number	UN2630
Proper shipping name:	Selenites (Sodium Selenite)
UN classfication	6.1
Subsidiary hazard class	
Packing group	l Yes
Marine pollutant (Sea) Transport in bulk according to	
Annex II of MARPOL 73/78 and	
the IBC Code	
ΙΑΤΑ	
UN number	UN2630
Proper shipping name:	Selenites (Sodium Selenite)
UN classfication	6.1
Subsidiary hazard class	
Packing group Environmentally Hazardous	i Yes
Substance	100

Section 15: REGULATORY INFORMATION

Japanese regulations Fire Service Act	Not applicable	
Poisonous and Deleterious	Poisonous Substances 1st. Grade	
Substances Control Law		
Industrial Safety and Health Act Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57,		
	Para.1, Enforcement Order Art.18)	
	Notifiable Substances (Law Art.57-2, Enforcement Oder Art.18-2 Attached Table No.9)No.333	
Regulations for the carriage	Toxic Substances - Poison (Ordinance Art.3, Ministry of Transportation Ordinance	
and storage of dangerous	Regarding Transport by Ship and Storage, Attached Table 1)	
goods in ship		
Civil Aeronautics Law	Toxic and Infectious Substances (Ordinance Art.194, MITL Nortification for Air	
	Transportation of Explosives etc., Attached Table 1)	
Pollutant Release and Transfer	¹ Class 1	
Register Law		
(2023.4.1-)		
Class 1 - No.	242	
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	Designated Hazardous Substances	
Law		

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 Selenite(IV) 10102-18-8(97.0)	Applicable	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	The following contents were revised. Prodauct and company Identification. Exposure controls/personal protection. Stability and reactivity. 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