



SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 26-May-2023 Revision Number 2.02

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Sodium Hexafluorosilicate
Product Code	190-03232,194-03235
Maraufaatuwan	
Manufacturer	FUJIFILM Wako Pure Chemical Corporation 1-2 Doshomachi 3-Chome
	Chuo-ku, Osaka 540-8605, Japan
	Phone: +81-6-6203-3741
	Fax: +81-6-6203-5964
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 <u>Classification of the substance or mixture</u> Acute toxicity - Oral Serious eye damage/eye irritation Specific target organ toxicity (single exposure) Category 2 heart Category 3 Respiratory irritation Specific target organ toxicity (repeated exposure) Category 1 bone Acute aquatic toxicity Chronic aquatic toxicity

Pictograms



Signal word

Danger

Hazard statements

- H319 Causes serious eye irritation
- H301 Toxic if swallowed
- H335 May cause respiratory irritation
- H412 Harmful to aquatic life with long lasting effects
- H402 Harmful to aquatic life
- H371 May cause damage to the following organs: heart
- H372 Causes damage to the following organs through prolonged or repeated exposure: bone

Precautionary statements-(Prevention)

Wear protective gloves/protective clothing/eye protection/face protection

Category 3 Category 2A Category 2, Category 3

Category 1

Category 3 Category 3

- 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
- · Use only outdoors or in a well-ventilated area
- · Avoid release to the environment

Precautionary statements-(Response)

• IF exposed or if you feel unwell: 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 INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- · Call a POISON CENTER or doctor/physician if you feel unwell
- · IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- 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

Formula

Other hazards Not available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture

Na2[SiF6]

Substance

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Sodium	99.0	188.06	(1)-334	1-(3)-200	16893-85-9
Hexafluorosilicate					
Note on ISHL No.:	* in the	table means announ	ced chemical substa	ances.	

* in the table means announced chemical substances.

Not applicable Impurities and/or Additives:

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.

Eve 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 acidic 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

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

Storage

Safe storage conditions	
Storage conditions	Store away fror
-	Keep container
Safo nackaging matorial	Polyethylene E

Incompatible substances

Store away from sunlight in well-ventilated place at room temperature (preferably cool). Keep container tightly closed. Store locked up. Polyethylene, Polypropylene 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 Hexafluorosilicate	N/A	N/A	TWA: 2.5 mg/m ³ F
16893-85-9			

Personal protective equipment

Respiratory protecti	on
Hand protection	
Eye protection	

Dust mask (JIS T 8151) chemical protective gloves (JIS T 8116) protective eyeglasses or chemical safety goggles Skin and body protection Long-sleeved work clothes General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form

FOIII	
Color	white
Appearance	crystalline powder - powder
Odor	Odorless
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
Auto-ignition temperature:	no data available
Decomposition temperature:	> 200 °C
рН	no data available
Viscosity (coefficient of viscosity)	no data available
Dynamic viscosity	no data available
Solubilities	water : sparingly soluble . Ethanol : practically insoluble,or
	insoluble .
n-Octanol/water partition coefficient:(log Pow)	no data available
Vapour pressure	no data available
Specific Gravity / Relative density	2.68
Vapour density	no data available
Particle characteristics	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
 Extremes of temperature and direct sunlight

 Incompatible materials
 Strong acids

 Hazardous decomposition products
 Silicon compounds, Halides

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium Hexafluorosilicate	125 mg/kg (Rat)	N/A	N/A
Chemical Name	Acute toxicity -oral- source	Acute toxicity -dermal- source	Acute toxicity -inhalation gas-
	information	information	source information
Sodium Hexafluorosilicate	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 informatio	n	source information	so	ource information
Sodium Hexafluorosilicate	Based on the NITE GHS		ased on the NITE GHS	Based o	n the NITE GHS
	classification results.	cla	assification results.	classifica	ation results.
Skin irritation/corrosion					
Chemica	al Name		Skin corrosion/i	rritation sour	ce information
Sodium Hexa	fluorosilicate		Based on the NITE GHS cl	assification re	sults.
Serious eye damage/ irritation					
Chemica	al Name		Serious eye damag	e/irritation so	ource information
Sodium Hexa	fluorosilicate		Based on the NITE GHS cl	assification re	sults.
Respiratory or skin sensitization	l				
Chemica	al Name		Respiratory or Skin s		
Sodium Hexa	fluorosilicate		Based on the NITE GHS cl	assification re	sults.
Reproductive cell mutagenicity					
Chemica	al Name		germ cell mutagencity source information		
Sodium Hexa	fluorosilicate		Based on the NITE GHS classification results.		
Carcinogenicity					
Chemical Name				city source i	
Sodium Hexa	fluorosilicate		Based on the NITE GHS cl	assification re	sults.
Chemical Name	NTP		IARC	ACGIH	JSOH (Japan)
Sodium Hexafluorosili	cate		Group 2A		
16893-85-9			Group 3		
Reproductive toxicity					
Chemica			Reproductive toxicity source information Based on the NITE GHS classification results.		
Sodium Hexa	fluorosilicate		Based on the NITE GHS cl	assification re	suits.
STOT-single exposure			CTOT simulation		
Chemical Name Sodium Hexafluorosilicate			STOT -single exposure- source information Based on the NITE GHS classification results.		
	liiuorosiiicate		Daseu on the NITE GHS C	assilication re	suits.
STOT-repeated exposure			STOT reported		una information
Chemical Name Sodium Hexafluorosilicate			STOT -repeated exposure- source information Based on the NITE GHS classification results.		
	liiuorosiiicate	·	Daseu UII (IIE INI I E GHS CI	assilication re	รงแร.
Aspiration hazard			Appirotion		information
Chemica			Aspiration Ha Based on the NITE GHS cl		
Sodium Hexafluorosilicate			Daseu on the NITE GHS C	assilication re	suns.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Sodium Hexafluorosilicate	N/A	LC50 : Lepomis macrochirus	N/A
		65 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 Hexafluorosilicate	Based on the NITE GHS classification 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	UN2674 SODIUM FLUOROSILICATE 6.1 III Not applicable
IMDG	
UN number	UN2674
Proper shipping name:	SODIUM FLUOROSILICATE
UN classfication	6.1
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	
ΙΑΤΑ	
UN number	UN2674
Proper shipping name:	SODIUM FLUOROSILICATE
UN classfication	6.1
Subsidiary hazard class	
Packing group	
Environmentally Hazardous Substance	Not applicable

Section 15: REGULATORY INFORMATION

International Inventories EINECS/ELINCS TSCA	Listed Listed
Japanese regulations	
Fire Service Act	Firefighting Inhibitor
Poisonous and Deleterious	Deleterious Substances 3rd. Grade
Substances Control Law	
Industrial Safety and Health Ac	tNot applicable
Regulations for the carriage	Toxic Substances - Poison (Ordinance Art.3, Ministry of Transportation Ordinance
and storage of dangerous goods in ship	Regarding Transport by Ship and Storage, Attached Table 1)
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	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	Appendix 1 Export licensed items
Soil Contamination Control Law	Designated Hazardous Substances

Chemical Name	Poisonous and Deleterious Substances Control Law	Industrial Safety and Health Act Substances (Law Art.57-2) (~2024.3.31)	Pollutant Release and Transfer Register Law (2023.4.1-)
Sodium Hexafluorosilicate 16893-85-9 (99.0)	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	The following contents were revised. Prodauct and company Identification. Hazards identification. Composition/information on ingredients. Fire fighting measures. Exposure controls/personal protection. Physical and chemical properties. Stability and reactivity. Ecological information. Regulatory information.
Disclaimor	

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