



SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 28-Feb-2024 Revision Number 3.09

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Sodium Azide
Product Code	190-14901,198-14902
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	+81-6-6203-3741 / +81-3-3270-8571 For research use only
Restrictions on use	Seek expert judgment when using for purposes other than those recommended.

Section 2: HAZARDS IDENTIFICATION

GIS classification	
Classification of the substance or mixture	
Acute toxicity - Oral	Category 2
Acute toxicity - Dermal	Category 1
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (single exposure)	Category 1
Category 1 cardiovascular system, lung, central nervous system, systemic toxicity	
Specific target organ toxicity (repeated exposure)	Category 1, Category 2
Category 1 central nervous system, cardiovascular system	
Category 2 lung	
Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 1



Hazard statements

GHS classification

- H314 Causes severe skin burns and eye damage
- H318 Causes serious eye damage
- H300 Fatal if swallowed
- H310 Fatal in contact with skin
- H410 Very toxic to aquatic life with long lasting effects
- H400 Very toxic to aquatic life
- H370 Causes damage to the following organs: cardiovascular system, lung, central nervous system, systemic toxicity
- H372 Causes damage to the following organs through prolonged or repeated exposure: central nervous system,
- cardiovascular system

H373 - May cause damage to the following organs through prolonged or repeated exposure: lung

Precautionary statements-(Prevention)

 Wear protective global 	oves/protective clothing/eye protection/face protection
 Do not breathe dus 	st/fume/gas/mist/vapors/spray
 Wash face, hands 	and any exposed skin thoroughly after handling
 Do not eat, drink o 	r smoke when using this product
 Avoid release to th 	e environment
Precautionary stateme	ents-(Response)
	cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue
rinsing	
	POISON CENTER or doctor/physician
	ir): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
	d clothing before reuse
	ove victim to fresh air and keep at rest in a position comfortable for breathing
	Immediately call a POISON CENTER or doctor/physician
 Rinse mouth 	
 Do NOT induce vo 	miting
 Collect spillage 	
Precautionary stateme	ents-(Storage)
 Store locked up 	
Precautionary stateme	ents-(Disposal)
 Dispose of content 	s/container to an approved waste disposal plant
Others	
Other hazards	Not available
Se	ection 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture

· Do not get in eyes, on skin, or on clothing

Formula

NaN3

Substance

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

Sodium azide 98.0 65.01 (1)-482 * 26628-22-8	Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
	Sodium azide	98.0	65.01		*	26628-22-8

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), Foam, 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

Wear self-contained breathing apparatus and protective suit

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

Do not give shock. Avoid contact with metal. Avoids contact with acids. Avoid contact with strong oxidizing agents. 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, store
-	in well-ventilated place at room temperature (preferably cool). Keep container tightly closed. Store locked up.
Safe packaging material	Polyethylene
Incompatible substances	Strong acids, Metals, Strong oxidizing agents

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 azide	N/A	N/A	Ceiling: 0.29 mg/m ³ Sodium
26628-22-8			
			Ceiling: 0.11 ppm Hydrazoic

				acid vapor
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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	White - nearly white
Appearance	crystalline powder or mass
Odor	no data available
Melting point/freezing point	275 °C
Boiling point, initial boiling point and boiling range	200-300 °C
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:	no data available
рН	Alkaline (aq.)
Viscosity (coefficient of viscosity)	no data available
Dynamic viscosity	no data available
Solubilities	water : free soluble . Ethanol , Diethyl ether : practically
	insoluble,or insoluble .
n-Octanol/water partition coefficient:(log Pow)	=<0.3
Vapour pressure	no data available
Specific Gravity / Relative density	1.85
Vapour density	no data available
Particle characteristics	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, Heat, flames and sparks, static electricity, spark, Shock

 Incompatible materials
 Strong acids, Metals, Strong oxidizing agents

 Hazardous decomposition products
 nitrogen gas, Hydrogen azide, Nitrogen oxides (NOx)

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium azide	45 mg/kg (Rat)	20 mg/kg (Rabbit)	N/A
Chemical Name	Acute toxicity -oral- source	Acute toxicity -dermal- source	Acute toxicity -inhalation gas-
	information	information	source information
Sodium azide	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 azide	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 azide	Based on the NITE GHS classification results.	
Serious eye damage/ irritation		
Chemical Name	Serious eye damage/irritation source information	
Sodium azide	Based on the NITE GHS classification results.	
Respiratory or skin sensitization		
Chemical Name	Respiratory or Skin sensitization source information	
Sodium azide	Based on the NITE GHS classification results.	
Reproductive cell mutagenicity		
Chemical Name	germ cell mutagencity source information	
Sodium azide	Based on the NITE GHS classification results.	
Carcinogenicity		
Chemical Name	Carcinogenicity source information	
Sodium azide	Based on the NITE GHS classification results.	

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

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Sodium azide	ErC50 : Pseudokirchneriella subcapitata 348 μg/L 96 h	N/A	N/A

Other data

Chemical Name	Short-term (acute) hazardous to the Long-term (chronic) hazardous to	
	aquatic environment source information	aquatic environment source information
Sodium azide	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	UN1687
Proper shipping name:	Sodium azide
UN classfication	6.1
Subsidiary hazard class	
Packing group	II
Marine pollutant	Yes
IMDG	
UN number	UN1687
Proper shipping name:	Sodium azide
UN classfication	6.1
Subsidiary hazard class	
Packing group	II
Marine pollutant (Sea)	Yes
Transport in bulk according to	No information available
Annex II of MARPOL 73/78 and	
the IBC Code	
ΙΑΤΑ	
UN number	UN1687
Proper shipping name:	Sodium azide
UN classfication	6.1
Subsidiary hazard class	
Packing group	II
Environmentally Hazardous	Yes
Substance	

Section 15: REGULATORY INFORMATION

<u>Japanese regulations</u> Fire Service Act Poisonous and Deleterious Substances Control Law	Category V, metalazides, dangerous grade 2 Poisonous Substances 2nd. Grade
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)
	Dangerous Substances - Explosive Substance (Enforcement Order Attached Table 1
	Item 1)
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	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-) 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 azide 26628-22-8(98.0)	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. 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