

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product name	R-Phycoerythrin-Streptavidin
Product code	JIR016-110-084, 568-73001
CAS No	N/A

Manufacturer	Wako Pure Chemical Industries, Ltd 1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan Phone: +81 (0)6-6203-3741 Fax: +81 (0)6-6203-5964
Supplier	Wako Pure Chemical Industries, Ltd 1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan Phone: +81 (0)6-6203-3741 Fax: +81 (0)6-6203-5964
Emergency telephone number	+81-6-6203-3741 / +81-3-3270-8571
Recommended uses and restrictions on use	For research purposes

Section 2: HAZARDS IDENTIFICATION

GHS classification

Classification of the substance or mixture

Acute toxicity - Dermal

Skin corrosion/irritation

Serious eye damage/eye irritation

aquatic environment (acute hazard)

Category 4
Category 2
Category 2A
Category 3

Pictograms



Signal word

Warning

Hazard statements

H312 - Harmful in contact with skin

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H402 - Harmful to aquatic life

Precautionary statements-(Prevention)

- Wear protective gloves/protective clothing/eye protection/face protection
- Wash face, hands and any exposed skin thoroughly after handling
- Avoid release to the environment

Precautionary statements-(Response)

- 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
- Call a POISON CENTER or doctor/physician if you feel unwell
- If skin irritation occurs: Get medical advice/attention
- Take off contaminated clothing and wash before reuse

Precautionary statements-(Storage)

- No

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 No
Sodium azide	0.5	65.01	(1)-482	N/A	26628-22-8
R-Phycocerythrin-Streptavidin	0.5mg/vial	N/A	N/A	N/A	N/A

Impurities and Stabilizing additives which constitute the substance 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

Special extinguishing method

No information available

Specific hazards arising from the chemical product

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Protection of 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 See Section 12 for additional ecological information

Methods and materials for contaminant and methods and materials for cleaning up

Do not touch spilled material without suitable protection(See section 8). After material is completely picked up, wash the spill site with soap and water and ventilate the area. Put all wastes in a plastic bag for disposal and seal it tightly. Remove, clean, or dispose of contaminated clothing.

Recovery, 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 eyes and skin 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 oxidizing agents

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

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.

Control parameters

Not regulated

Exposure limits

Chemical Name	Japan	ISHL Working Environmental Evaluation Standards - Administrative Control Levels	ACGIH
Sodium azide 26628-22-8	N/A	N/A	Ceiling: 0.29 mg/m ³ NaN ₃ Ceiling: 0.11 ppm Hydrazoic acid vapor

Personal protective equipment

Respiratory protection

Protective mask

Hand protection

Protection gloves

Eye protection

protective eyeglasses or chemical safety goggles

Skin and body protection

Protective gloves

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form	- lyophilisate
Odor	No data available
pH	
Melting point/freezing point	275 °C
Boiling point, initial boiling point and boiling range	No data available
Flash point	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
Vapour pressure	No data available
Vapour density	No data available
Specific Gravity (relative density)	No data available
Solubilities	water : freely soluble .
n-Octanol/water partition coefficient: (log Pow)	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity (coefficient of viscosity)	No data available
Dynamic viscosity	No data available

Section 10: STABILITY AND REACTIVITY

Stability

Stability Stable under recommended storage conditions.

Reactivity No data available

Hazardous reactions

None under normal processing

Conditions to avoid

Extremes of temperature and direct sunlight

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

nitrogen gas, Carbon monoxide (CO), carbon dioxide (CO₂)

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Component	Acute toxicity -oral- source information	Based on the NITE GHS classification results.	Acute toxicity -inhalation gas-source information
Sodium azide 26628-22-8 (0.5)	LD50(ori,rat):-45mg/kg(DFGOTvol .20(2003)).	LD50(skn,rabbit):20mg/kg(ACGIH (2001))	Based on the NITE GHS classification results.

Component	Acute toxicity -inhalation vapor-source information	Acute toxicity -inhalation dust-source information	Acute toxicity -inhalation mist-source information
Sodium azide 26628-22-8 (0.5)	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.

Skin irritation/corrosion

Component	Skin corrosion irritation source information
Sodium azide 26628-22-8 (0.5)	Based on the NITE GHS classification results.

Serious eye damage/ irritation

Component	Serious eye damage source information

Sodium azide 26628-22-8 (0.5)	From being a skin corrosive.
Respiratory or skin sensitization	
Component	Respiratory, Skin sensitization source information
Sodium azide 26628-22-8 (0.5)	Based on the NITE GHS classification results.
Reproductive cell mutagenicity	
Component	Mutagenic source information
Sodium azide 26628-22-8 (0.5)	Based on the NITE GHS classification results.
Carcinogenicity	
Component	Carcinogenicity source information
Sodium azide 26628-22-8 (0.5)	Based on the NITE GHS classification results.
Reproductive toxicity	
Component	Reproductive toxicity source information
Sodium azide 26628-22-8 (0.5)	Based on the NITE GHS classification results.
STOT-single exposure	
Component	STOT -single exposure- source information
Sodium azide 26628-22-8 (0.5)	Based on the NITE GHS classification results.
STOT-repeated exposure	
Component	STOT -repeated exposure- source information
Sodium azide 26628-22-8 (0.5)	Based on the NITE GHS classification results.
Aspiration hazard	
Component	Aspiration Hazard source information
Sodium azide 26628-22-8 (0.5)	Based on the NITE GHS classification results.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Sodium azide	N/A	LC50: <i>Lepomis macrochirus</i> 0.7 mg/L 96 h LC50: <i>Pimephales promelas</i> 5.46 mg/L 96 h LC50: <i>Oncorhynchus mykiss</i> 0.8 mg/L 96 h	N/A

Other data

Component	Aquatic toxicity -Acute- source information	Aquatic toxicity -Chronic- source information
Sodium azide 26628-22-8 (0.5)	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.

Persistence and degradability	No information available
Bioaccumulative potential	No information available
Mobility in soil	No information available
Hazard to the ozone layer	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 classification
 Subsidiary hazard class
 Labels
 Packing group

IMDG Not regulated

UN number
 Proper shipping name:
 UN classification
 Subsidiary hazard class
 Packing group
 Marine pollutant (Sea)

IATA Not regulated

UN number
 Proper shipping name:
 UN classification
 Subsidiary hazard class
 Packing group
 Environmentally Hazardous
 Substance

Section 15: REGULATORY INFORMATION

International Inventories

EINECS/ELINCS Listed
 TSCA Listed

Japanese regulations

Fire Service Act No
 Poisonous and Deleterious
 Substances Control Law Poisonous Substances 2nd. Grade
 Industrial Safety and Health Act Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2 Attached Table No.9, and
 Law Art.56-1)
 Act on the Evaluation of
 Chemical Substances and
 Regulation of Their Manufacture,
 etc No
 Regulations for the carriage and
 storage of dangerous goods in
 ship No
 Civil Aeronautics Law No
 Marine Pollution Prevention Law
 Pollutant Release and Transfer
 Register Law No
 Water Pollution Control Act No
 Gunpowder Control Law No
 High Pressure Gas Safety Law No
 ETCO Not applicable

Section 16: OTHER INFORMATION

Literature and references

Revision Note No information available

Disclaimer

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 Z7252(2010). *JIS: Japanese Industrial Standards

End of Safety Data Sheet