



# SAFETY DATA SHEET

According to JIS Z 7253:2019 **Revision date** 15-May-2023 Revision Number 3.03

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Sodium Hexacyanoferrate(II) Decahydrate		
Product Code	199-01965		
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 Emergency telephone number	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 +81-6-6203-3741 / +81-3-3270-8571		
Recommended uses Restrictions on use	For research use only Seek expert judgment when using for purposes other than those recommended.		
	Section 2: HAZARDS IDENTIFICATION		
GHS classification <u>Classification of the substance or</u> Serious eye damage/eye irritation	mixture Category 2B		
Pictograms Signal word	Warning		
Hazard statements H320 - Causes eye irritation			
Precautionary statements-(Respon	osed skin thoroughly after handling nse) ith water for several minutes. Remove contact lenses, if present and easy to do. Continue dical advice/attention e)		
Others Other hazards	Not available		
Section 3: COMPOSITION/INFORMATION ON INGREDIENTS			
Single Substance or Mixture	Substance		
Formula	Na4[Fe(CN)6]·10H2O		

ENCS

N/A

Molecular weight

484.06

**Chemical Name** 

Sodium

Weight-%

95.0

ISHL No.

N/A

CAS RN

14434-22-1

Hexacyanoferrate(II) Decahydrate					
Note on ISHL No.: * in the table means announced chemical substances.					

### 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.

Not applicable

#### 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** 

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

 Storage conditions

 Storage conditions

 Storage conditions

 Storage conditions

 Store away from sunlight in well-ventilated place at room temperature (preferably cool).

 Keep container tightly closed.

 Glass

 Incompatible substances

 No information available

### 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**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Personal protective equipment Respiratory protection Hand protection Eye protection Skin and body protection General hygiene considerations

Dust mask ( JIS T 8151 ) chemical protective gloves ( JIS T 8116 ) protective eyeglasses or chemical safety goggles Long-sleeved work clothes

Handle in accordance with good industrial hygiene and safety practice.

### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form Color Appearance Odor Melting point/freezing point Boiling point, initial boiling point and boiling range Flammability Evaporation rate: Flammability (solid, gas): Upper/lower flammability or	slightly yellow - pale yellow crystals - crystalline powder no data available 435 °C (dec.) no data available no data available no data available no data available
explosive limits	no data available
Upper:	no data available
Lower:	no data available
Flash point	no data available
Auto-ignition temperature:	no data available
Decomposition temperature:	no data available
pH	no data available
Viscosity (coefficient of viscosity)	no data available
Dynamic viscosity	water : soluble . Ethanol : practically insoluble,or insoluble .
Solubilities	no data available
n-Octanol/water partition coefficient:(log Pow)	no data available
Vapour pressure	1.45
Specific Gravity / Relative density	no data available
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

 Extremes of temperature and direct sunlight
 Incompatible materials

 No information available
 Hazardous decomposition products

 Carbon monooxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx), Metal oxides

### Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

no data available

Skin irritation/corrosion	no data available
Serious eye damage/ irritation	no data available
Respiratory or skin sensitization	no data available
Reproductive cell mutagenicity	no data available
Carcinogenicity	no data available
Reproductive toxicity	no data available
STOT-single exposure	no data available
STOT-repeated exposure	no data available
Aspiration hazard	no data available

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

No information available

Other data

no data available

Persistence and degradabilityNo information availableBioaccumulative potentialNo information availableMobility in soilNo information availableHazard to the ozone layerNo 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.

Not regulated

### Section 14: TRANSPORT INFORMATION

ADR/RID UN number Proper shipping name: UN classfication Subsidiary hazard class

W01W0119-0196 JGHEEN

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

# Section 15: REGULATORY INFORMATION

International Inventories EINECS/ELINCS TSCA	-
Japanese regulations	
Fire Service Act	Not applicable
Poisonous and Deleterious	Not applicable
Substances Control Law	
Industrial Safety and Health Ac	tHarmful 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.352
Regulations for the carriage and storage of dangerous goods in ship	Not applicable
Civil Aeronautics Law	Not applicable
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	Not applicable
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 Hexacyanoferrate(II) Decahydrate 14434-22-1(95.0)	-	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<br/>RTECS:Registry of Toxic Effects of Chemical Substances<br/>Japan Industrial Safety and Health Association GHS Model SDS<br/>Dictionary of Synthetic Oraganic Chemistry , SSOCJ, Koudansha Scientific Co.Ltd.<br/>Chemical Dictionary, Kyouritsu Publishing Co., Ltd.<br/>etcRecord of SDS revisionsThe following contents were revised. Prodauct and company Identification. Fire fighting<br/>measures. Handling and storage. Exposure controls/personal protection. Physical and

chemical properties. Stability and reactivity. 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