



# SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 26-Feb-2024

Revision Number 6.05

### Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Oxine-copper Standard		
Product Code 156-01214			
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 <b>Emergency telephone number</b> +81-6-6203-3741 / +81-3-3270-8571			

## **Section 2: HAZARDS IDENTIFICATION**

Seek expert judgment when using for purposes other than those recommended.

#### **GHS** classification

Recommended uses

Restrictions on use

Classification of the substance or mixture

Acute toxicity - OralCategory 4Serious eye damage/eye irritationCategory 1Specific target organ toxicity (single exposure)Category 1

For research use only

Category 1 respiratory system

Specific target organ toxicity (repeated exposure)

Category 2

Category 2 liver

Acute aquatic toxicityCategory 1Chronic aquatic toxicityCategory 1

### **Pictograms**



### Hazard statements

H318 - Causes serious eye damage

H302 - Harmful if swallowed

H410 - Very toxic to aquatic life with long lasting effects

H400 - Very toxic to aquatic life

H370 - Causes damage to the following organs: respiratory system

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

## **Precautionary statements-(Prevention)**

- Wear protective gloves/protective clothing/eye protection/face protection
- 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
- Immediately call a POISON CENTER or doctor/physician
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- · 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 Not available

### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Substance

Formula C18H12CuN2O2

	Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Ī	Oxine-copper	99.0	351.85	(5)-805	1-(1)-161	10380-28-6

Note on ISHL 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

Water spray (fog), Carbon dioxide (CO2), Foam, Extinguishing powder, 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

Use personal protective equipment as required. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

### **Section 6: ACCIDENTAL RELEASE MEASURES**

<sup>\*</sup> in the table means announced chemical substances.

#### 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 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 tightly closed. Store in a cool (2-10 °C) place.

Safe packaging material Glass

Incompatible substances 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
ſ	Oxine-copper	N/A	N/A	TWA: 1 mg/m <sup>3</sup> Cu dust and
	10380-28-6			mist

#### Personal protective equipment

**Respiratory protection** Dust mask ( JIS T 8151 )

Hand protection chemical protective gloves (JIS T 8116)

Eye protection protective eyeglasses or chemical safety goggles (JIS T 8147)

Skin and body protection Long-sleeved work clothes

### 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** 

Colorgreen - greenish brownAppearancecrystalline powder - powder

Odor
Melting point/freezing point
Boiling point, initial boiling point and boiling range
Flammability
Evaporation rate:

no data available
no data available
no data available

Flammability (solid, gas):

Upper/lower flammability or explosive limits

Upper:
Lower:
no data available
pH
no data available
viscosity (coefficient of viscosity)
no data available
pynamic viscosity
no data available

Solubilities methanol : soluble . water : practically insoluble,or insoluble .

n-Octanol/water partition coefficient:(log Pow) 2.46

Vapour pressureno data availableSpecific Gravity / Relative densityno data availableVapour densityno data availableParticle characteristicsno 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 oxidizing agents

## Hazardous decomposition products

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

## **Section 11: TOXICOLOGICAL INFORMATION**

**Acute toxicity** 

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Oxine-copper	500 mg/kg( Rat )	> 2000 mg/kg (Rabbit)	> 0.94 mg/L ( Rat )
		> 5000 mg/kg (Rat)	

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
C 20pp 5.			Based on the NITE GHS classification results.

	Chemical Name	Acute toxicity -inhalation vapor- source information	Acute toxicity -inhalation dust- source information	Acute toxicity -inhalation mist- source information
	Cimic coppe.			Based on the NITE GHS
١		classification results.	classification results.	classification results.

### Skin irritation/corrosion

Chemical Name	Skin corrosion/irritation source information

Oxine-copper		Based on the NITE GHS classification results.		
Serious eye damage/ irritation				
Chemical Name		Serious eye damage/irritation source information		
Oxine-copper	· ·		sults.	
Respiratory or skin sensitization				
Chemical Name		Respiratory or SI	kin sensitization s	source information
Oxine-copper		Based on the NITE GF	IS classification re	sults.
Reproductive cell mutagenicity		•		
Chemical Name		germ cell m	utagencity sourc	e information
Oxine-copper		Based on the NITE GF	IS classification re	sults.
Carcinogenicity				
Chemical Name		Carcino	genicity source in	formation
Oxine-copper	Oxine-copper Based on the NITE GHS classification resi		sults.	
Chemical Name	NTP	IARC	ACGIH	JSOH (Japan)
Oxine-copper		Group 3		
10380-28-6				
Reproductive toxicity				
			ve toxicity source	
Reproductive toxicity		Reproducti Based on the NITE GF		
Chemical Name Oxine-copper STOT-single exposure		Based on the NITE GF	IS classification re	sults.
Reproductive toxicity  Chemical Name		Based on the NITE GF	de exposure- source	sults.
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## **Section 12: ECOLOGICAL INFORMATION**

### **Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Oxine-copper	ErC50: Green arge	LC50 : Oncorhynchus mykiss	N/A
	0.0762 mg/L 72 h	0.0089 mg/L 96 h	

#### Other data

Chemical Name	Short-term (acute) hazardous to the	Long-term (chronic) hazardous to the
	aquatic environment source information	aquatic environment source information
Oxine-copper	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

## **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 UN3077

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Oxine-copper)

UN classfication

Subsidiary hazard class

Packing group III
Marine pollutant Yes

**IMDG** 

UN number UN3077

**Proper shipping name:** Environmentally hazardous substance, solid, n.o.s. (Oxine-copper)

UN classfication

Subsidiary hazard class

Packing group III
Marine pollutant (Sea) Yes

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and

the IBC Code

IATA

UN number UN3077

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Oxine-copper)

UN classfication 9

Subsidiary hazard class

Packing group III Environmentally Hazardous Yes

**Substance** 

### **Section 15: REGULATORY INFORMATION**

Japanese regulations

Fire Service Act
Poisonous and Deleterious
Not applicable
Not applicable

**Substances Control Law** 

Industrial Safety and Health Act Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57)

Notifiable Substances (Law Art.57-2)

[2024.4.1~] Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1)

Industrial Safety and Health Act (

2024~)
Regulations for the carriage

and storage of dangerous

goods in ship

Noxious Substances (Ordinance Art.3, Ministry of Transportation Ordinance Regarding

Transport by Ship and Storage, Attached Table 1)

Civil Aeronautics Law Misellaneous Dangerous Substances and Articles (Ordinance Art.194, MITL Nortification

for Air Transportation of Explosives etc., Attached Table 1)

Pollutant Release and Transfer Class 1

Register Law (2023.4.1-)

Class 1 - No. 325

Water Pollution Control Act Specified substances(Law Art.2 Para.4, Enforcement Order Art.3-3)

**Export Trade Control Order** Not applicable

Air Pollution Control Law Hazardous Air Pollutants

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-)
Oxine-copper 10380-28-6 ( 99.0 )	-	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.

**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**