



SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 06-Oct-2023

Revision Number 6.04

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Copper(II) Acetate
Product Code	039-19101,037-19102,031-19105
Supplier	FUJIFILM Wako Pure Chemical Corporation

Phone: +81-6-6203-3741

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Emergency telephone number +81-6-6203-3741 / +81-3-3270-8571

Recommended uses For research use only

Restrictions on useSeek expert judgment when using for purposes other than those recommended.

Section 2: HAZARDS IDENTIFICATION

GHS classification

Classification of the substance or mixture

Acute toxicity - Oral Category 4

Specific target organ toxicity (single exposure) Category 1, Category 3

Category 1 liver, kidneys, blood Category 3 Respiratory irritation

Specific target organ toxicity (repeated exposure)

Category 1

Category 1 liver

Acute aquatic toxicity
Chronic aquatic toxicity
Category 1
Category 1

Pictograms

Signal word



Hazard statements

H302 - Harmful if swallowed

H335 - May cause respiratory irritation

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H370 - Causes damage to the following organs: liver, kidneys, blood

Danger

H372 - Causes damage to the following organs through prolonged or repeated exposure: liver

Precautionary statements-(Prevention)

- · Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Do not breathe dust/fume/gas/mist/vapors/spray
- Use only outdoors or in a well-ventilated area
- Avoid release to the environment

Precautionary statements-(Response)

- IF exposed: Call a POISON CENTER or doctor/physician
- 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: Call a POISON CENTER or doctor/physician if you feel unwell
- · Rinse mouth
- Collect spillage

Precautionary statements-(Storage)

- Store locked up
- Store in a well-ventilated place. Keep container tightly closed

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 (CH3COO)2Cu

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Copper(II) acetate	97.0	181.63	(2)-693	*	142-71-2

Note on ISHL No.: * in the table means announced chemical substances.

Impurities and/or Additives: Not applicable

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

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 Store away from sunlight 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

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
Copper(II) acetate	N/A	N/A	TWA: 1 mg/m³ Cu dust and
142-71-2			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

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

Colorbluish greenAppearancecrystalline powderOdorcharacteristic odor

no data available Melting point/freezing point 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

no data available Upper: no data available Lower: Flash point no data available no data available **Auto-ignition temperature:** 240-260 °C **Decomposition temperature:** no data available no data available Viscosity (coefficient of viscosity) Dynamic viscosity no data available

Solubilities water, Ethanol, acetone: soluble.

n-Octanol/water partition coefficient:(log Pow) no data available no data available Vapour pressure Specific Gravity / Relative density no data available Vapour density no data available no data available **Particle characteristics**

Section 10: STABILITY AND REACTIVITY

Stability

no data available Reactivity

Chemical stability Stable under recommended storage conditions.

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), Metal oxides

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Copper(II) acetate	595 mg/kg (Rat)	N/A	N/A

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
30ppoi(ii) acctate			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
Copper(II) acetate	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
11 ()	classification results.	classification results.	classification results.

Skin irritation/corrosion

Chemical Name	Skin corrosion/irritation source information
Copper(II) acetate	Based on the NITE GHS classification results.
Serious eve damage/ irritation	

Chemical Name	Serious eye damage/irritation source information
Copper(II) acetate	Based on the NITE GHS classification results.
Respiratory or skin sensitization	

Respiratory or Skin sensitization source information **Chemical Name**

Copper(II) acetate	Based on the NITE GHS classification results.	
Reproductive cell mutagenicity		
Chemical Name	germ cell mutagencity source information	
Copper(II) acetate	Based on the NITE GHS classification results.	
Carcinogenicity		
Chemical Name	Carcinogenicity source information	
Copper(II) acetate	Based on the NITE GHS classification results.	

Reproductive toxicity

Chemical Name	Reproductive toxicity source information
Copper(II) acetate	Based on the NITE GHS classification results.
STOT-single exposure	

Chemical Name	STOT -single exposure- source information
Copper(II) acetate Based	ased on the NITE GHS classification results.

STOT-repeated exposure

Chemical Name	STOT -repeated exposure- source information
Copper(II) acetate	Based on the NITE GHS classification results.

Aspiration hazard

Chemical Name	Aspiration Hazard source information	
Copper(II) acetate	Based on the NITE GHS classification results.	

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Copper(II) acetate	N/A	LC50:Pimephales promelas	N/A
		0.39 ma/L 96h	

Other data

Chemical Name	Short-term (acute) hazardous to the	Long-term (chronic) hazardous to the
	aquatic environment source	aquatic environment source
	information	information
Copper(II) acetate	Based on the NITE GHS classification	Based on the NITE GHS classification
	results.	results.

No information available Persistence and degradability **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

UN number UN3077

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Copper(II) acetate)

UN classfication

Subsidiary hazard class Ш

Packing group Marine pollutant Yes

IMDG

UN number UN3077

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Copper(II) acetate)

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. (Copper(II) acetate)

UN classfication

Subsidiary hazard class

Packing group III
Environmentally Hazardous Yes

Substance

Section 15: REGULATORY INFORMATION

Japanese regulations

Fire Service Act Not applicable

Poisonous and Deleterious Deleterious Substances 3rd. Grade

Substances Control Law

Industrial Safety and Health Act Harmful 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

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

No.9)No.379

Regulations for the carriage

and storage of dangerous

goods in ship

Civil Aeronautics Law

Transport by Ship and Storage, Attached Table 1)

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. 272

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-)
Copper(II) acetate 142-71-2 (97.0)	Applicable	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

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