



# SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 10-Oct-2023

Revision Number 2.03

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Gold(I) Cyanide
Product Code	071-00951
Sumplier	FILLIEU M Wake Dura Chemical Corneration

Supplier FUJIFILM Wako Pure Chemical Corporation

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**Recommended uses** For research use only

**Restrictions on use**Seek expert judgment when using for purposes other than those recommended.

## **Section 2: HAZARDS IDENTIFICATION**

**GHS** classification

Classification of the substance or mixture

Acute toxicity - OralCategory 2Acute toxicity - DermalCategory 3Acute toxicity - Inhalation (Dusts/Mists)Category 3Serious eye damage/eye irritationCategory 2ASpecific target organ toxicity (repeated exposure)Category 1

#### **Pictograms**



#### Signal word

Danger

#### **Hazard statements**

H319 - Causes serious eye irritation

H300 - Fatal if swallowed

H311 - Toxic in contact with skin

H331 - Toxic if inhaled

H372 - Causes damage to organs through prolonged or repeated exposure

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

- · Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Wear protective gloves/protective clothing/eye protection/face protection
- Use only outdoors or in a well-ventilated area
- Do not breathe dust/fume/gas/mist/vapors/spray

#### **Precautionary statements-(Response)**

- · Get medical advice/attention if you feel unwell
- 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

- Remove/Take off immediately all contaminated clothing
- · Wash contaminated clothing before reuse
- 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 SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- Rinse mouth

## 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 AuCN

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Gold(I) Cyanide	95.0	222.98	(1)-1023	公表	506-65-0

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

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**

Avoid contact with strong oxidizing agents. To cut with care and wear protective gloves and protective goggles to ampoule time of the opening (Cutting method to check the label). 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

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

#### 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. Ampoule

Safe packaging material

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 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 Dust mask ( JIS T 8151 )

Hand protectionchemical protective gloves (JIS T 8116)Eye protectionprotective 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** 

**Color** yellow

\_\_\_\_\_\_

powder **Appearance** 

Odor no data available no data available Melting point/freezing point Boiling point, initial boiling point and boiling range no data available no data available **Flammability** no data available **Evaporation rate:** 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 **Auto-ignition temperature:** no data available no data available **Decomposition temperature:** no data available рΗ Viscosity (coefficient of viscosity) no data available **Dynamic viscosity** no data available

Solubilities water, Ethanol, ether: insoluble. alkali hydroxide, Sodium

Thiosulfate Solution: soluble.

n-Octanol/water partition coefficient:(log Pow) no data available Vapour pressure no data available

Specific Gravity / Relative density 7.14

no data available Vapour density no data available **Particle characteristics** 

## 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

Hydrogen cyanide, Metal oxides

# **Section 11: TOXICOLOGICAL INFORMATION**

**Acute toxicity** no data available

Skin irritation/corrosion no data available no data available Serious eye damage/ irritation Respiratory or skin sensitization no data available Reproductive cell mutagenicity no data available no data available Carcinogenicity

Reproductive toxicity no data available no data available STOT-single exposure STOT-repeated exposure no data available no data available **Aspiration hazard** 

## **Section 12: ECOLOGICAL INFORMATION**

No information available **Ecotoxicity** 

no data available Other data

No information available Persistence and degradability **Bioaccumulative potential** No information available No information available Mobility in soil 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 UN1588

Proper shipping name: Cyanides, inorganic, solid, n.o.s. (Gold(I) Cyanide)

**UN classfication** 

Subsidiary hazard class

Packing group Ш Marine pollutant Yes

**IMDG** 

**UN** number UN1588

Proper shipping name: Cyanides, inorganic, solid, n.o.s. (Gold(I) Cyanide)

**UN classfication** Subsidiary hazard class Ρ Packing group Ш Yes Marine pollutant (Sea)

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and

the IBC Code

IATA

**UN** number UN1588

Proper shipping name: Cyanides, inorganic, solid, n.o.s. (Gold(I) Cyanide)

**UN classfication** 

Subsidiary hazard class

Ш Packing group **Environmentally Hazardous** Yes

**Substance** 

## **Section 15: REGULATORY INFORMATION**

Japanese regulations

Fire Service Act Not applicable

**Poisonous and Deleterious** Poisonous Substances 2nd. Grade

**Substances Control Law** 

Industrial Safety and Health Act Not applicable

Regulations for the carriage

Toxic Substances - Poison (Ordinance Art.3, Ministry of Transportation Ordinance Regarding Transport by Ship and Storage, Attached Table 1)

and storage of dangerous goods in ship

**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 Class 1

Register Law (2023.4.1-)

Class 1 - No. 144

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

Air Pollution Control Law Soil Contamination Control Hazardous Air Pollutants
Designated Hazardous Substances

Law

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-)
Gold(I) Cyanide 506-65-0 ( 95.0 )	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

#### **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**