



# SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 09-Jun-2023 Revision Number 1.07

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

	(S)-Chloro[(1,2,3,4,5-?)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien -1-yl](2-pyrrolidinecarboxamido-?N1,?N2)iridium(?)
Product Code	035-23351

Manufacturer FUJIFILM Wako Pure Chemical Corporation

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**Supplier** FUJIFILM Wako Pure Chemical Corporation

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**Emergency telephone number** 

+81-6-6203-3741 / +81-3-3270-8571 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 Skin corrosion/irritation Serious eye damage/eye irritation

Category 2 Category 2A

## **Pictograms**



Signal word Warning

## **Hazard statements**

H315 - Causes skin irritation

H319 - Causes serious eye irritation

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

- · Wash face, hands and any exposed skin thoroughly after handling
- Wear protective gloves/protective clothing/eye protection/face protection

# Precautionary statements-(Response)

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue
- If eye irritation persists: Get medical advice/attention
- IF ON SKIN: Wash with plenty of soap and water
- · If skin irritation occurs: Get medical advice/attention
- · Take off contaminated clothing and wash before reuse

**Precautionary statements-(Storage)** 

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· Not applicable

### Precautionary statements-(Disposal)

Not applicable

**Others** 

Other hazards Not available

# Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Substance

Formula C15H24CIIrN2O

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
(S)-Chloro[(1,2,3,4,5-η)-	95.0	476.03	N/A	N/A	202662-76-8
1,2,3,4,5-pentamethyl-2,					
4-cyclopentadien-1-yl](2-					
pyrrolidinecarboxamido-					
кN1,кN2)iridium(Ш)					

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 Keep container protect from light tightly closed. Store in a cool (2-10 °C) place. Packed

with an inert gas.

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.

This product, as supplied, does not contain any hazardous materials with occupational **Exposure limits** 

exposure limits established by the region specific regulatory bodies.

Personal protective equipment

Dust mask (JIS T 8151) Respiratory protection

Hand protection chemical protective gloves (JIS T 8116) protective eyeglasses or chemical safety goggles Eye protection

Long-sleeved work clothes Skin and body protection

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

# Section 9: PHYSICAL AND CHEMICAL PROPERTIES

**Form** 

Color pale yellow  $\sim$  yellowish red crystalline powder - powder **Appearance** 

no data available Odor no data available Melting point/freezing point

no data available Boiling point, initial boiling point and boiling range Flammability no data available 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 **Decomposition temperature:** no data available no data available Viscosity (coefficient of viscosity) no data available no data available **Dynamic viscosity** Solubilities methanol: soluble. n-Octanol/water partition coefficient:(log Pow) no data available Vapour pressure no data available no data available Specific Gravity / Relative density Vapour density no data available Particle characteristics no 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), Halides, Metal oxides

# Section 11: TOXICOLOGICAL INFORMATION

no data available **Acute toxicity** 

no data available Skin irritation/corrosion 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 no data available STOT-repeated exposure **Aspiration hazard** no data available

# **Section 12: ECOLOGICAL INFORMATION**

No information available **Ecotoxicity** 

Other data no data available

Persistence and degradability No information available No information available Bioaccumulative potential 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 classfication** 

Subsidiary hazard class

Packing group

Not applicable Marine pollutant

**IMDG** Not regulated

**UN** number

Proper shipping name: **UN classfication** Subsidiary hazard class

Packing group

Marine pollutant (Sea) Not applicable

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and

the IBC Code

**IATA** Not regulated

**UN** number

Proper shipping name: **UN classfication** Subsidiary hazard class Packing group

**Environmentally Hazardous** 

Not applicable

Substance

# **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 Act Not applicable Regulations for the carriage Not applicable

and storage of dangerous

goods in ship

**Civil Aeronautics Law** Not applicable Pollutant Release and Transfer Not applicable

Register Law (2023.4.1-)

**Export Trade Control Order** Not 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.

**Record of SDS revisions** 

The following contents were revised. Prodauct and company Identification. Exposure

controls/personal protection. 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**