



# SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 28-Feb-2024

Revision Number 2.06

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	2,4-Dichlorophenol-13C6 Standard
Product Code	049-32841

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

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

Acute toxicity - DermalCategory 3Acute toxicity - Inhalation (Dusts/Mists)Category 3Skin corrosion/irritationCategory 1Serious eye damage/eye irritationCategory 1

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

Category 1 central nervous system

Category 3 Respiratory irritation, Narcotic effects

Acute aquatic toxicity
Chronic aquatic toxicity
Category 1
Category 1

**Pictograms** 



# **Hazard statements**

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

H311 - Toxic in contact with skin

H331 - Toxic if inhaled

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

H410 - Very toxic to aquatic life with long lasting effects

H401 - Toxic to aquatic life

H370 - Causes damage to the following organs: central nervous system

### **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
- · Use only outdoors or in a well-ventilated area
- · Avoid release to the environment

# Precautionary statements-(Response)

- 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
- Call a POISON CENTER or doctor/physician if you feel unwell
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- · 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 you feel unwell
- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
- Collect spillage

### **Precautionary statements-(Storage)**

- Store in a well-ventilated place. Keep container tightly closed
- · 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 13C6H4Cl2O

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
2,4-Dichlorophenol-13C6	97.0	168.96	(3)-930,(3)-903	*	1202864-83-2

Note on ISHL No.:

\* in the table means announced chemical substances.

# **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. Store locked up.

Safe packaging material Glas

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 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

Color White - pale brown

**Appearance** crystals - crystalline powder or mass

characteristic odor Odor 44 °C

Melting point/freezing point

Boiling point, initial boiling point and boiling range 210 °C

**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: Lower: no data available Flash point 113 °C / 235 °F Auto-ignition temperature: no data available **Decomposition temperature:** no data available рΗ no data available

Viscosity (coefficient of viscosity) no data available **Dynamic viscosity** no data available

Solubilities Ethanol and acetone: freely soluble. water: practically

insoluble, or insoluble.

n-Octanol/water partition coefficient:(log Pow) 3.15

Vapour pressure no data available

Specific Gravity / Relative density 1.383

no data available Vapour density no data available Particle characteristics

# **Section 10: STABILITY AND REACTIVITY**

### **Stability**

no data available Reactivity 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), Halides

### Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity no data available

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2,4-Dichlorophenol-13C6	2830 mg/kg ( Rat )	780 mg/kg ( Rat )	0.97 mg/L( Rat )

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
2, 1 2 10 110 10 10 10 10 00			Based on the NITE GHS
	classification results.	classification results.	classification results.

Chemical Name	Acute toxicity -inhalation	Acute toxicity -inhalation dust-	Acute toxicity -inhalation mist-
	vapor- source information	source information	source information
2,4-Dichlorophenol-13C6	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
	classification results.	classification results.	classification results.

Skin irritation/corrosion no data available	
Chemical Name	Skin corrosion/irritation source information
2,4-Dichlorophenol-13C6	Based on the NITE GHS classification results.
Serious eye damage/ irritation	no data available
Chemical Name	Serious eye damage/irritation source information
2,4-Dichlorophenol-13C6	Based on the NITE GHS classification results.
Respiratory or skin sensitization	no data available
Chemical Name	Respiratory or Skin sensitization source information
2,4-Dichlorophenol-13C6	Based on the NITE GHS classification results.
Reproductive cell mutagenicity	no data available
Chemical Name	germ cell mutagencity source information
2,4-Dichlorophenol-13C6	Based on the NITE GHS classification results.
Carcinogenicity	no data available
Chemical Name	Carcinogenicity source information
2,4-Dichlorophenol-13C6	Based on the NITE GHS classification results.
Reproductive toxicity	no data available

Reproductive toxicity no data available		
Chemical Name	Reproductive toxicity source information	
2,4-Dichlorophenol-13C6	Based on the NITE GHS classification results.	
STOT-single exposure	no data available	
Chemical Name	STOT -single exposure- source information	
2,4-Dichlorophenol-13C6	Based on the NITE GHS classification results.	
STOT-repeated exposure	no data available	
Chemical Name	STOT -repeated exposure- source information	
2,4-Dichlorophenol-13C6	Based on the NITE GHS classification results.	
Aspiration hazard	no data available	
Chemical Name	Aspiration Hazard source information	

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Section	12: ECOL	DGICAL	INFORMATION	

# **Ecotoxicity** No information available

2,4-Dichlorophenol-13C6

Chemical Name	Algae/aquatic plants	Fish	Crustacea
2,4-Dichlorophenol-13C6	N/A	N/A	LC50 : Daphnia magna
·			1.4 mg/L 48 h

C	Other data no data av	no data available		
	Chemical Name	Short-term (acute) hazardous to the	Long-term (chronic) hazardous to the	
		aquatic environment source information	aquatic environment source information	
	2,4-Dichlorophenol-13C6	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

Bioaccumulative potential No information available

No information available

Degree of decomposition: 0 % by BOD (METI Existing chemical safety inspections)

Based on the NITE GHS classification results.

# **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 UN2020

Proper shipping name: Chlorophenols, solid (2,4-Dichlorophenol-13C6)

6.1

**UN classfication** 

Subsidiary hazard class

Packing group Ш Marine pollutant Yes

**IMDG** 

**UN** number UN2020

Proper shipping name: Chlorophenols, solid (2,4-Dichlorophenol-13C6)

**UN classfication** 

Subsidiary hazard class

**Packing group** Ш Marine pollutant (Sea) Yes

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and

the IBC Code

**IATA** 

UN2020 **UN** number

Chlorophenols, solid (2,4-Dichlorophenol-13C6) Proper shipping name:

**UN classfication** 

Subsidiary hazard class

Ш Packing group **Environmentally Hazardous** Yes

**Substance** 

### Section 15: REGULATORY INFORMATION

Japanese regulations

Fire Service Act Not applicable

Deleterious Substances 3rd, Grade Poisonous and Deleterious

**Substances Control Law** 

Industrial Safety and Health Act Not applicable

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

2024~)

Regulations for the carriage

and storage of dangerous

goods in ship

Toxic Substances - Poison (Ordinance Art.3, Ministry of Transportation Ordinance

Regarding Transport by Ship and Storage, Attached Table 1)

**Civil Aeronautics Law** Toxic and Infectious Substances (Ordinance Art.194, MITL Nortification for Air

Transportation of Explosives etc., Attached Table 1)

**Marine Pollution Prevention** Enforcement ordinance Appendix No. 1 Noxious liquid substance Category Y

Pollutant Release and Transfer Not applicable

Register Law (2023.4.1-)

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

**Export Trade Control Order** Not applicable

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-)
2,4-Dichlorophenol-13C6	Applicable	-	-

Chemical Name	Poisonous and Deleterious	Industrial Safety and Health Act	Pollutant Release and Transfer
	Substances Control Law	Substances	Register Law
		(Law Art.57-2)	(2023.4.1-)
1202864-83-2 ( 97.0 )			

# **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 Disclaimer

The following contents were revised. Regulatory information.

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**