



SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 26-Feb-2024

Revision Number 1.1

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	2,4-Dichlorophenol
Product Code	040-22062

Supplier FUJIFILM Wako Pure Chemical Corporation

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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 - DermalCategory 3Acute toxicity - Inhalation (Vapors)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 CI2C6H3OH

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
2,4-Dichlorophenol	90	163.00	(3)-930,(3)-903	*	120-83-2

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

Absorb dry sand, earth, sawdust and the waste. Collect empty container that can be sealed.

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 and tightly closed in well ventilated cool place under

25°C Store locked up.

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 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 or upon melting Colorless - brown

Turbidity clear ~ slightly muddy

Appearance crystals - crystalline powder or mass or upon melting liquid

Odor characteristic odor

Melting point/freezing point37 - 44 °CBoiling point, initial boiling point and boiling range209 - 210 °CFlammabilityno data availableEvaporation rate:no data availableFlammability (solid, gas):no data available

Upper/lower flammability or explosive limits

Upper:
Lower:
no data available
no data available
no data available
113 °C / 235 °F
Auto-ignition temperature:
no data available
pecomposition temperature:
no data available
no data available
ph viscosity (coefficient of viscosity)
no data available

Dynamic viscosity no data available no data available

Solubilities Ethanol , acetone : free 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

Vapour 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), Halides

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2,4-Dichlorophenol	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
2,4-Dichlorophenol	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS

	classification results.	classification results.	classification results.	
Chemical Name	Acute toxicity -inhalation vapor- source information	Acute toxicity -inhalation dust- source information	source information	
2,4-Dichlorophenol	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	
Skin irritation/corrosion				
	cal Name	2 22 22 23 20	ion source information	
	lorophenol	Based on the NITE GHS classif	ication results.	
Serious eye damage/ irritation				
	cal Name		itation source information	
2,4-Dich	lorophenol	Based on the NITE GHS classif	ication results.	
Respiratory or skin sensitization	on			
Chemi	cal Name		itization source information	
2,4-Dich	lorophenol	Based on the NITE GHS classif	ication results.	
Reproductive cell mutagenicity	1			
Chemi	cal Name	germ cell mutagencity source information		
2,4-Dichlorophenol		Based on the NITE GHS classification results.		
Carcinogenicity				
Chemi	cal Name		source information	
2,4-Dichlorophenol		Based on the NITE GHS classification results.		
Chemical Name	e NTP	IARC A	CGIH JSOH (Japan)	
2,4-Dichlorophen 120-83-2	ol	Group 2B	Group 2B	
Reproductive toxicity				
Chemi	cal Name	Reproductive toxic	ty source information	
2,4-Dichlorophenol		Based on the NITE GHS classification results.		
STOT-single exposure				
Chemical Name		STOT -single exposure- source information		
2,4-Dichlorophenol		Based on the NITE GHS classification results.		
STOT-repeated exposure		·		
Chemical Name		STOT -repeated exposure- source information		
2,4-Dich	lorophenol	Based on the NITE GHS classification results.		
Aspiration hazard	·	<u> </u>		
	cal Name	Aspiration Hazard	I source information	
2,4-Dich	lorophenol	Based on the NITE GHS classification results.		

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
2,4-Dichlorophenol	EC50:Pseudokirchneriella subcapitata 14 mg/L 96 h static	LC50:Oncorhynchus mykiss 2.182 - 3.108 mg/L 96 h	LC50:Daphnia magna 1.4 mg/L 48 h

Other data

Other data		
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	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

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

Bioaccumulative potential

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 UN2020

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

UN classfication 6.1

Subsidiary hazard class

Packing group III
Marine pollutant Yes

IMDG

UN number UN2020

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

UN classification 6.

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 UN2020

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

UN classification 6.1

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

goods in ship

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

Law

Pollutant Release and Transfer Not applicable

Register Law

(2023.4.1-)

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

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	Applicable	-	-
120-83-2 (90)			

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

 $\label{eq:continuous} \mbox{Dictionary of Synthetic Oraganic Chemistry} \ , \mbox{SSOCJ}, \mbox{Koudansha Scientific Co.Ltd}.$

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