



# SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 22-Feb-2024

Revision Number 3.05

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	p-Chlorophenol
Product Code	031-02772,035-02775

**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 4Acute toxicity - DermalCategory 4Acute toxicity - Inhalation (Dusts/Mists)Category 4Skin corrosion/irritationCategory 1Serious eye damage/eye irritationCategory 1Reproductive ToxicityCategory 2Specific target organ toxicity (single exposure)Category 1

Category 1 central nervous system, respiratory system

Specific target organ toxicity (repeated exposure) Category 1, Category 2

Category 1 respiratory system
Category 2 nervous system

Acute aquatic toxicity
Chronic aquatic toxicity
Category 2
Category 2

**Pictograms** 



# **Hazard statements**

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

H302 - Harmful if swallowed

H312 - Harmful in contact with skin

H332 - Harmful if inhaled

H361 - Suspected of damaging fertility or the unborn child

H411 - Toxic to aquatic life with long lasting effects

H401 - Toxic to aquatic life

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

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

H373 - May cause damage to the following organs through prolonged or repeated exposure: nervous system

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

- · Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood
- Use personal protective equipment as required
- Use only outdoors or in a well-ventilated area
- 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
- · 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
- Call a POISON CENTER or doctor/physician if you feel unwell
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- Rinse mouth
- Do NOT induce vomiting
- · Collect spillage

### Precautionary statements-(Storage)

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 CIC6H4OH

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
p-Chlorophenol	98.0	128.56	(3)-895	4-(10)-208	106-48-9

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 acidic substances 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.

Safe packaging material

Glass

Incompatible substances Acidic substances

# 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 - slightly brown or upon melting Colorless - slightly brown

Turbidity clear ( upon melting )

Appearance mass or upon melting liquid

Odor characteristic odor Melting point/freezing point 40 - 45 °C

Melting point/freezing point 40 - 45 ° Boiling point, initial boiling point and boiling range 220 °C

Flammability no data available
Evaporation rate: no data available
Flammability (solid, gas): no data available

Upper/lower flammability or explosive limits

Upper:

Lower:

no data available

no data available

121.1 °C

Auto-ignition temperature:no data availableDecomposition temperature:no data availablepHno data availableViscosity (coefficient of viscosity)no data available

**Dynamic viscosity** no data available

Solubilities Ethanol : freely soluble . water : sparingly soluble .

n-Octanol/water partition coefficient:(log Pow) 2.39

Vapour pressure no data available

Specific Gravity / Relative density 1.306 Vapour density 4.46

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, Moisture

Incompatible materials

Acidic substances

**Hazardous decomposition products** 

Carbon monooxide (CO), Carbon dioxide (CO2), Halides

# **Section 11: TOXICOLOGICAL INFORMATION**

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Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
p-Chlorophenol	500 mg/kg (Rat)	1500 mg/kg (Rat)	1.010 mg/m³ (Rat) 4 h

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
p 0			Based on the NITE GHS classification results.

Chemical Name	Acute toxicity -inhalation	Acute toxicity -inhalation dust-	Acute toxicity -inhalation mist-
	vapor- source information	source information	source information
p-Chlorophenol	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
·	classification results.	classification results.	classification results.

# Skin irritation/corrosion

Chemical Name	Skin corrosion/irritation source information		
p-Chlorophenol	Based on the NITE GHS classification results.		
Serious eye damage/ irritation			
Chemical Name	Serious eye damage/irritation source information		

p-Chlorophenol	Based on the NITE GHS classification results.
Respiratory or skin sensitization	
Chemical Name	Respiratory or Skin sensitization source information

Based on the NITE GHS classification results.

p-Chlorophenol

Reproductive cell mutagenicity	
Chemical Name	germ cell mutagencity source information
p-Chlorophenol	Based on the NITE GHS classification results.

Carcinogenicity

Chemical Name	Carcinogenicity source information
p-Chlorophenol	Based on the NITE GHS classification results.

Reproductive toxicity

Chemical Name	Reproductive toxicity source information
p-Chlorophenol	Based on the NITE GHS classification results.
STOT-single exposure	

**Chemical Name** STOT -single exposure- source information p-Chlorophenol Based on the NITE GHS classification results.

STOT-repeated exposure

Chemical Name	STOT -repeated exposure- source information	
p-Chlorophenol	Based on the NITE GHS classification results.	
Aspiration hazard		
Chamical Name	Aspiration Hazard source information	

Chemical Name	Aspiration Hazard source information	
p-Chlorophenol	Based on the NITE GHS classification results.	

# **Section 12: ECOLOGICAL INFORMATION**

# **Ecotoxicity**

LC50: 3.4mg/L 48hr (Oryzias latipes) Acute aquatic hazard

Chemical Name	Algae/aquatic plants	Fish	Crustacea
p-Chlorophenol	EC50:Pseudokirchneriella	LC50:Lepomis macrochirus	EC50:Daphnia magna
	subcapitata	3.1 - 4.8 mg/L 96 h	2.5 mg/L 48 h
	2.29 - 41.7 mg/L 96 h	LC50:Pimephales promelas	-
	EC50:Pseudokirchneriella	3.4 - 4.3 mg/L 96 h	
	subcapitata	LC50:Oryzias latipes	
	3.34 - 18.7 mg/L 72 h	3.7 - 6.6 mg/L 96 h	
	EC50:Pseudokirchneriella	LC50:Pimephales promelas	

subcapitata
38 mg/L 96 h static
EC50:Desmodesmus
subspicatus
8 mg/L 96 h static
EC50:Desmodesmus
subspicatus
5.43 - 6.87 mg/L 96 h
LC50:Oncorhynchus mykiss
1.91 mg/L 96 h
LC50:Brachydanio rerio
5.6 mg/L 96 h
LC50:Poecilia reticulata
subspicatus
9 mg/L 96 h
8.3 mg/L 72 h static

Other data

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

Persistence and degradability Degree of decomposition: 2.0 % by BOD

Bioaccumulative potentialBioaccumulative potentialMobility in soilNo information availableHazard to the ozone layerNo 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

UN classification 6.1

Subsidiary hazard class

Packing group III
Marine pollutant Yes

**IMDG** 

UN number UN2020

Proper shipping name: CHLOROPHENOLS, SOLID

UN classification 6.1

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

UN classfication 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 Not applicable

Substances Control Law

Industrial Safety and Health Act Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57)

Notifiable Substances (Law Art.57-2)

Industrial Safety and Health Act (

2024~)

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

【2024.4.1~】Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1)

Regarding Transport by Ship and Storage, Attached Table 1)

Regulations for the carriage 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. 12

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-)
p-Chlorophenol 106-48-9 ( 98.0 )	-	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

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**