



SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 22-Feb-2024

Revision Number 2.04

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	o-Cresol Standard
Product Code	033-18761

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 - OralCategory 3Acute toxicity - DermalCategory 3Skin corrosion/irritationCategory 1Serious eye damage/eye irritationCategory 1CarcinogenicityCategory 2

Specific target organ toxicity (single exposure)

Category 1, Category 3

Category 1 central nervous system, respiratory system, cardiovascular system, blood system, liver, kidneys, pancreas

Category 3 Narcotic effects

Specific target organ toxicity (repeated exposure)

Category 1

Category 1 central nervous system, cardiovascular system, blood system, respiratory system, liver, kidneys

Acute aquatic toxicity Category 2

Pictograms



Hazard statements

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

H301 - Toxic if swallowed

H311 - Toxic in contact with skin

H351 - Suspected of causing cancer

H336 - May cause drowsiness or dizziness

H401 - Toxic to aquatic life

H370 - Causes damage to the following organs: central nervous system, respiratory system, cardiovascular system, blood system, liver, kidneys, pancreas

H372 - Causes damage to the following organs through prolonged or repeated exposure: central nervous system, cardiovascular system, blood system, respiratory system, liver, kidneys

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
- · Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Do not breathe dust/fume/gas/mist/vapors/spray
- 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
- · Wash contaminated clothing before reuse
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- 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: Immediately call a POISON CENTER or doctor/physician
- · Rinse mouth
- Do NOT induce vomiting

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 CH3C6H4OH

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
o-Cresol	99.0	108.14	(3)-499,(4)-57	4-(10)-150	95-48-7

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

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

	Chemical Name	JSOH (Japan)	ISHL (Japan)	ACGIH	
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o-Cresol 95-48-7	TWA: 5 ppm OEL TWA: 22 mg/m³ OEL Skin	ISHL/ACL: 5 ppm	TWA: 20 mg/m³ inhalable fraction and vapor Skin
	ISHL/ACL: 5 ppm		Skill

Personal protective equipment

Respiratory protection Dust mask (JIS T 8151)

Hand protection chemical protective gloves (JIS T 8116)

protective eyeglasses or chemical safety goggles (JIS T 8147) Eye protection

Long-sleeved work clothes Skin and body protection

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

White - pale yellow, upon melting Colorless - pale yellow Color

(upon melting) clear **Turbidity**

crystals or mass, upon melting liquid **Appearance**

Odor characteristic odor

Melting point/freezing point

31 °C 191 °C Boiling point, initial boiling point and boiling range

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: no data available Lower: Flash point 81 °C / 178 °F **Auto-ignition temperature:** no data available **Decomposition temperature:** no data available no data available

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

Solubilities Ethanol: Very soluble. water: sparingly soluble.

n-Octanol/water partition coefficient:(log Pow) 1.95

Vapour pressure no data available

1.05 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. Gradually colored in the air.

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)

Section 11: TOXICOLOGICAL INFORMATION

		ity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
o-Cresol	121 mg/kg (Rat)	890 mg/kg (Rabbit)	> 1220 mg/m³ (Rat) 1 h

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

Chemical Name	Acute toxicity -inhalation vapor- source information	Acute toxicity -inhalation dust- source information	Acute toxicity -inhalation mist- source information
o-Cresol	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
o-Cresol	Based on the NITE GHS classification results.

Serious eye damage/irritation

Chemical Name	Serious eye damage/irritation source information
o-Cresol	Based on the NITE GHS classification results.

Respiratory or skin sensitization

Chemical Name	Respiratory or Skin sensitization source information
o-Cresol	Based on the NITE GHS classification results.

Reproductive cell mutagenicity

Chemical Name	germ cell mutagencity source information
o-Cresol	Based on the NITE GHS classification results.

Carcinogenicity

Chemical Name	Carcinogenicity source information	
o-Cresol	Based on the NITE GHS classification results.	

Reproductive toxicity

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

STOT-single exposure

Chemical Name	STOT -single exposure- source information	
o-Cresol	Based on the NITE GHS classification results.	
STOT-reneated exposure		

Chemical Name	5101 -repeated exposure- source information	
o-Cresol	Based on the NITE GHS classification results.	
Assiration bound		

Aspiration hazard

Chemical Name	Aspiration Hazard source information	
o-Cresol	Based on the NITE GHS classification results.	

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
o-Cresol	EC50:Pseudokirchneriella	LC50:Poecilia reticulata	EC50:Daphnia magna
	subcapitata	14.07 - 23.61 mg/L 96 h	15.8 mg/L 48 h
	65 mg/L 96 h	LC50:Lepomis macrochirus	EC50:Daphnia magna
		18.37 - 24.21 mg/L 96 h	9.5 mg/L 48 h
		LC50:Pimephales promelas	-
		9.72 - 15.92 mg/L 96 h	
		LC50:Lepomis macrochirus	

11.5 mg/L 96 h LC50:Brachydanio rerio 24 mg/L 96 h LC50:Oncorhynchus mykiss
8.4 mg/L 96 h

Other data

Chemical Name	Short-term (acute) hazardous to the	Long-term (chronic) hazardous to the	
	aquatic environment source information	aquatic environment source information	
o-Cresol	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

No information available
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 UN3455
Proper shipping name: UN3455
Cresols, solid

UN classfication 6.1 Subsidiary hazard class 8 Packing group II

Marine pollutant Not applicable

IMDG

UN number UN3455
Proper shipping name: Cresols, solid

UN classfication 6.1 Subsidiary hazard class 8 Packing group II

Marine pollutant (Sea) Not applicable

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and

the IBC Code

IATA

UN number UN3455
Proper shipping name: UN3455
Cresols, solid

UN classfication 6.1 Subsidiary hazard class 8 Packing group II

Environmentally Hazardous Not applicable

Substance

Section 15: REGULATORY INFORMATION

Japanese regulations

Fire Service Act Specified combustible material Deleterious Substances 2nd. Grade

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)

Class 2 Organic Solvents (Enforcement Order Attached Table No.6-2, Ordinance on

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

Toxic and Infectious Substances (Ordinance Art.194, MITL Nortification for Air

Enforcement ordinance Appendix No. 1 Noxious liquid substance Category Y

Prevention of Organic Solvent Poisoning Art.1, Para.1, Item 5)

Regarding Transport by Ship and Storage, Attached Table 1)

Transportation of Explosives etc., Attached Table 1)

Working Environment Evaluation Standards, Administrative Control Levels (Law Art.65-2, 【2024.4.1~】Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1)

Para.1)

Industrial Safety and Health Act (

2024~)

Regulations for the carriage and storage of dangerous

goods in ship

Civil Aeronautics Law

Marine Pollution Prevention I aw

Pollutant Release and Transfer Class 1

Register Law (2023.4.1-)

Class 1 - No.

Water Pollution Control Act

Export Trade Control Order Not applicable

Specified substances(Law Art.2 Para.4, Enforcement Order Art.3-3)

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-)
o-Cresol 95-48-7 (99.0)	Applicable	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.

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