



SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 23-Dec-2022

Revision Number 2.05

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	o-Phenylphenol Standard
Product Code	080-03901

Manufacturer FUJIFILM Wako Pure Chemical Corporation

1-2 Doshomachi 3-Chome Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741

Fax: +81-6-6203-5964

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 Recommended uses and

restrictions on use

+81-6-6203-3741 / +81-3-3270-8571

For research use only

Section 2: HAZARDS IDENTIFICATION

GHS classification
Classification of the substance or mixture
Skin corrosion/irritation
Serious eye damage/eye irritation
Carcinogenicity
Acute aquatic toxicity

Category 2 Category 2A Category 1B Category 1









Signal word

Danger

Hazard statements

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H350 - May cause cancer

H400 - Very toxic to aquatic life

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
- · Avoid release to the environment

Precautionary statements-(Response)

- IF exposed or concerned: Get medical advice/attention
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

- 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
- · 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 C6H5C6H4OH

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
o-Hydroxybiphenyl	99.5	170.21	(4)-19	7-(3)-132,7-(3)-140	90-43-7

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 Store away from sunlight in well-ventilated place at room temperature (preferably cool).

Keep container tightly closed.

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 Hand protectionDust mask

Protection gloves

Eye protection protective eyeglasses or chemical safety goggles

Skin and body protection Long-sleeved work clothes

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form

Color
Appearance
Codor
Codor
Melting point/freezing point
Codor
Melting point, initial boiling point and boiling range
Codor
Melting point, initial boiling point and boiling range
Codor

Flammability no data available

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

Upper/lower flammability or

explosive limits

9.5 vol% Upper: 1.4 vol% Lower: Flash point 124 °C 530°C Auto-ignition temperature:

Decomposition temperature: no data available no data available Viscosity (coefficient of viscosity) no data available Dynamic viscosity no data available

Solubilities Ethanol, acetone: soluble.

n-Octanol/water partition coefficient:(log Pow) 3.2 Vapour pressure 0.07Pa Specific Gravity / Relative density 1.2

Vapour density no data available Particle characteristics no data available

Section 10: STABILITY AND REACTIVITY

Stability

Reactivity no data available

Chemical stability Stable under recommended storage conditions.

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

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
o-Hydroxybiphenyl	2600 - 2800 mg/kg (Rat)	> 5000 mg/kg (Rat)	>0.24 mg/mL (Rat)
			4 h (mist)

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
o riyaraxyarpirariyi			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-Hydroxybiphenyl	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
I	o-Hydroxybiphenyl	Based on the NITE GHS classification results.
-	N. J	

Serious eye damage/ irritation

Cnemical Name	Serious eye damage/irritation source information
o-Hydroxybiphenyl	Based on the NITE GHS classification results.
Respiratory or skin sensitization	

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

Reproductive cell mutagenicity

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

 Chemical Name
 Carcinogenicity source information

 o-Hydroxybiphenyl
 Based on the NITE GHS classification results.

Chemical Name	NTP	IARC	ACGIH	JSOH (Japan)
o-Hydroxybiphenyl		Group 3		
90-43-7		·		

Reproductive toxicity

	Chemical Name	Reproductive toxicity source information
	o-Hydroxybiphenyl	Based on the NITE GHS classification results.
0=		·

STOT-single exposure

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

STOT-repeated exposure

Chemical Name	STOT -repeated exposure- source information
Chemical Name	3101 -repeated exposure- source information
o-Hydroxybiphenyl	Based on the NITE GHS classification results.

Aspiration hazard

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

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
o-Hydroxybiphenyl	EC50 : Desmodesmus	LC50 : Pimephales promelas	EC50 : Daphnia magna
	subspicatus	3.4 mg/L 96 h	0.71 mg/L 48 h
	0.85 mg/L 72 h	LC50 : Poeciliareticulata	
		5.8 mg/L 96 h	
		LC50 : Lepomis macrochirus	
		2.74 mg/L 96 h	
		LC50 : Oncorhynchus mykiss	
		2.75 mg/L 96 h	

Other data

Chemical Name	Short-term (acute) hazardous to the aquatic environment source information	Long-term (chronic) hazardous to the aquatic environment source information
o-Hydroxybiphenyl	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 UN3077

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (o-Hydroxybiphenyl)

UN classfication

Subsidiary hazard class

Packing group III
Marine pollutant Yes

IMDG

UN number UN3077

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (o-Hydroxybiphenyl)

UN classfication

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 UN3077

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (o-Hydroxybiphenyl)

UN classfication

Subsidiary hazard class

Packing group III
Environmentally Hazardous Yes

Substance

Section 15: REGULATORY INFORMATION

International Inventories

EINECS/ELINCS Listed
TSCA Listed

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 Noxious Substa

and storage of dangerous

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

goods in ship

Civil Aeronautics Law Misellaneous Dangerous Substances and Articles (Ordinance Art. 194, MITL Nortification

for Air Transportation of Explosives etc., Attached Table 1)

Pollutant Release and Transfer Class 1

Register Law (~2023.3.31)

Class 1 - No. 346
Pollutant Release and Transfer Class 1

Register Law (2023/4/1~)

Class 1 - No. 346

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

Export Trade Control Order Not applicable

Air Pollution Control Law Hazardous Air Pollutants

Chemical Name	Poisonous and Deleterious	Industrial Safety and Health Act	Pollutant Release and Transfer
	Substances Control Law	Substances	Register Law
		(Law Art.57-2)	(~2023.3.31)
		(~2024.3.31)	, ,
o-Hydroxybiphenyl	-	-	Applicable
90-43-7 (99.5)			

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

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 Z7252(2019). *JIS: Japanese Industrial Standards

End of Safety Data Sheet