



# SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 11-Sep-2024

Revision Number 1.09

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	2,4-Xylenol	
Product Code	045-26152,049-26155	
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 4Skin corrosion/irritationCategory 1Serious eye damage/eye irritationCategory 1Specific target organ toxicity (single exposure)Category 2

Category 2 respiratory system

Specific target organ toxicity (repeated exposure)

Category 2

Category 2 liver

Acute aquatic toxicity
Chronic aquatic toxicity
Category 2
Category 3

### **Pictograms**

Signal word



## **Hazard statements**

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

H312 - Harmful in contact with skin

H401 - Toxic to aquatic life

H412 - Harmful to aquatic life with long lasting effects

H371 - May cause damage to the following organs: respiratory system

Danger

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

#### **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
- · 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
- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

#### **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 (CH3)2C6H3OH

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
2,4-Dimethylphenol	97.0	122.16	(3)-521,(4)-57	*	105-67-9

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**

Highly flammable. Avoid contact with high temperature objects, spark, and 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

Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

### 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 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.

Chemical Name	JSOH (Japan)	ISHL (Japan)	ACGIH
2,4-Dimethylphenol	N/A	N/A	TWA: 1 ppm inhalable fraction
105-67-9			and vapor

## Personal protective equipment

Respiratory protection Protective mask

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** 

Colorless - yellow brown

Turbidity clear Appearance liquid

**Odor** characteristic odor

Melting point/freezing point 26 °C Boiling point, initial boiling point and boiling range 212 °C

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

Upper/lower flammability or explosive limits

Upper:no data availableLower:no data available

Flash point 104 °C

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

**Solubilities** Ethanol, acetone: Very soluble. water: slightly soluble.

n-Octanol/water partition coefficient:(log Pow)
Napour pressure
Specific Gravity / Relative density
Vapour density
Particle characteristics

no data available
10mmHg(92°C)
1.018-1.026g/mL
4.2(Air=1)
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, Heat, flames and sparks, static electricity, spark

Incompatible materials

Strong oxidizing agents

**Hazardous decomposition products** 

Carbon monooxide (CO), Carbon dioxide (CO2)

### Section 11: TOXICOLOGICAL INFORMATION

\*NITE: National Institute of Technology and Evaluation (JAPAN) https://www.chem-info.nite.go.jp/en/chem/chrip/chrip\_search/srhInput

**Acute toxicity** 

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2,4-Dimethylphenol	3,200 mg/kg (Rat)	1,040 mg/kg (Rat)	N/A

Chemical Name	Acute toxicity -oral- source	Acute toxicity -dermal- source	Acute toxicity -inhalation gas-
	information	information	source information
_,			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
2,4-Dimethylphenol	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
7 71	classification results.	classification results.	classification results.
Skin irritation/corrosion			
Chemical Name		Skin corrosion/irritation source information	
2,4-Dimethylphenol		Based on the NITE GHS classification results.	

Serious eye damage/ irritation		
Chemical Name	Serious eye damage/irritation source information	
2,4-Dimethylphenol	Based on the NITE GHS classification results.	
Posniratory or skin sensitization		

Respiratory or skin sensitization

Chemical Name	Respiratory or Skin sensitization source information
2,4-Dimethylphenol	Based on the NITE GHS classification results.

Reproductive cell mutagenicity

Chemical Name	germ cell mutagencity source information
2,4-Dimethylphenol	Based on the NITE GHS classification results.
Carcinogonicity	

Carcinogenicity

Chemical Name	Carcinogenicity source information
2,4-Dimethylphenol	Based on the NITE GHS classification results.

Chemical Name	NTP	IARC	ACGIH	JSOH
2,4-Dimethylphenol	N/A	N/A	A3	N/A
105-67-9				

Reproductive toxicity

Chemical Name	Reproductive toxicity source information
2,4-Dimethylphenol	Based on the NITE GHS classification results.

**STOT-single exposure** 

Chemical Name	STOT -single exposure- source information	
2,4-Dimethylphenol	Based on the NITE GHS classification results.	

**STOT-repeated exposure** 

Chemical Name	STOT -repeated exposure- source information	
2,4-Dimethylphenol	Based on the NITE GHS classification results.	
Aspiration hazard		

Chemical Name	Aspiration Hazard source information
2,4-Dimethylphenol	Based on the NITE GHS classification results.

# **Section 12: ECOLOGICAL INFORMATION**

\*NITE: National Institute of Technology and Evaluation (JAPAN) https://www.chem-info.nite.go.jp/en/chem/chrip/chrip\_search/srhInput

## **Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Crustacea
2,4-Dimethylphenol	N/A	LC50:Oryzias latipes	LC50:Daphnia magna
		11.3 - 13.9 mg/L 96 h	2.1 mg/L 48 h
		LC50:Lepomis macrochirus	
		4.1 - 9.6 mg/L 96 h	
		LC50:Lepomis macrochirus	
		6.3 - 9.6 mg/L 96 h	
		LC50:Oncorhynchus mykiss	
		7.8 - 11 mg/L 96 h	
		LC50:Pimephales promelas	
		15.4 mg/L 96 h	

### Other data

Chemical Name	Short-term (acute) haza	ardous to the	Long-term (chronic)	hazardous to the
	aquatic environment sou	urce information	aquatic environment	source information
2,4-Dimethylphenol	Based on the NITE GHS cla	lassification E	Based on the NITE GH	S classification

results. results.

Persistence and degradability No information available No information available Bioaccumulative potential Mobility in soil No information available No information available Hazard to the ozone layer

## 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 UN3430 Proper shipping name: Xylenols, liquid

**UN classfication** 6.1

Subsidiary hazard class

Packing group

Marine pollutant Not applicable

**IMDG** 

**UN** number UN3430 Proper shipping name: Xylenols, liquid

UN classfication 6.1

Subsidiary hazard class

Ш Packing group

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 UN3430 Proper shipping name: Xylenols, liquid

**UN classfication** 6.1

Subsidiary hazard class

Packing group

**Environmentally Hazardous** Not applicable

**Substance** 

## **Section 15: REGULATORY INFORMATION**

Japanese regulations

**Fire Service Act** Category IV, Class III petroleums, dangerous grade 3

**Poisonous and Deleterious** Not applicable

**Substances Control Law** 

Industrial Safety and Health Act Not applicable

2024~)

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

Industrial Safety and Health Act (

[2025.4.1~] Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57)

【2025.4.1~】Notifiable Substances (Law Art.57-2)

Regulations for the carriage

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

and storage of dangerous 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)

Pollutant Release and Transfer Class 1

Register Law (2023.4.1-)

Class 1 - No. 78

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-Dimethylphenol 105-67-9 ( 97.0 )	•	-	Applicable

## **Section 16: OTHER INFORMATION**

Key literature references and sources for data etc.

NITE: National Institute of Technology and Evaluation (JAPAN) https://www.chem-info.nite.go.jp/en/chem/chrip/chrip\_search/srhInput

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**