



# SAFETY DATA SHEET

According to JIS Z 7253:2019 **Revision date** 06-Mar-2023 Revision Number 2.03

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	4,5-I	4,5-Dichloro-1,2-phenylenediamine				
Product Code	322-	48471,320-4847	2			
Manufacturer	1-2 Do Chuo- Phone Fax: +	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 FUJIFILM Wako Pure Chemical Corporation				
Supplier	1-2 Do Phone Fax: +	oshomachi 3-Chome, ( e: +81-6-6203-3741 ·81-6-6203-2029	Chuo-ku, Osaka 54	0-8605, Japan		
Emergency telephone n Recommended uses an restrictions on use		-6203-3741 / +81-3-32 search use only	70-8571			
	Sectio	on 2: HAZARDS	IDENTIFICAT	ION		
	COOLIN					
GHS classification Classification of the su Not a hazardous substan			armonized System	(GHS)		
Pictograms Signal word	None	None				
Hazard statements Not a hazardous subs	stance or mixture a	ccording to the Globall	y Harmonized Syst	em (GHS)		
Precautionary statemer • Not applicable						
<ul> <li>Precautionary statement</li> <li>Not applicable</li> </ul>	nts-(Response)					
Precautionary statemer	nts-(Storage)					
<ul> <li>Not applicable</li> <li>Precautionary statement</li> <li>Not applicable</li> </ul>	nts-(Disposal)					
Others Other hazards	Not av	Not available				
Sec	ction 3: COMF	<b>POSITION/INFOR</b>	RMATION ON	INGREDIENTS	,	
Single Substance or Mi	xture Subst	ance				
Formula		CI2N2				
Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN	
4,5-Dichloro-o-phenylen ediamine	97	177.03	N/A	N/A	5348-42-5	
Note on ISHL No.:	* in th	e table means announ	ced chemical subst	ances.		

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.

#### <u>Storage</u>

Safe storage conditions

Storage conditions

Safe packaging material Incompatible substances Keep container protect from light, store in well-ventilated place at room temperature (preferably cool). Keep container tightly closed. Glass 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 protection Eye protection Skin and body protection General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

Dust mask

Protection gloves

Long-sleeved work clothes

### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

protective eyeglasses or chemical safety goggles

Form	
Color	Pale yellow - brown
Appearance	crystals - crystalline powder
Odor	no data available
Melting point/freezing point	159-162 °C
Boiling point, initial boiling point and boiling range	no data available
Flammability	no data available
Evaporation rate:	no data available
Flammability (solid, gas):	no data available
Upper/lower flammability or	
explosive limits	
Upper:	no data available
Lower:	no data available
Flash point	no data available
Auto-ignition temperature:	no data available
Decomposition temperature:	no data available
рН	no data available
Viscosity (coefficient of viscosity)	no data available
Dynamic viscosity	no data available
Solubilities	Ethanol, acetone: soluble.water: practically insoluble,or
	insoluble .
n-Octanol/water partition coefficient:(log Pow)	no data available
Vapour pressure	no data available
Specific Gravity / Relative density	no data available
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.

 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), Nitrogen oxides (NOx), Halides

# Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

no data available

Skin irritation/corrosion Serious eye damage/ irritation Respiratory or skin sensitization Reproductive cell mutagenicity Carcinogenicity

Reproductive toxicity STOT-single exposure STOT-repeated exposure Aspiration hazard no data available no data available no data available no data available no data available

no data available no data available no data available no data available

### Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Other data

no data available

No information available

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.

Not regulated

### 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 Proper shipping name: UN classfication Subsidiary hazard class Packing group

Marine pollutant	Not applicable
IMDG UN number Proper shipping name: UN classfication Subsidiary hazard class	Not regulated -
Packing group Marine pollutant (Sea) Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable No information available
IATA UN number Proper shipping name: UN classfication Subsidiary hazard class	Not regulated -
Packing group Environmentally Hazardous Substance	Not applicable

# Section 15: REGULATORY INFORMATION

International Inventories	
EINECS/ELINCS	Listed
TSCA	-
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	Not applicable
and storage of dangerous	
goods in ship	
Civil Aeronautics Law	Not applicable
Pollutant Release and Transfer	Not applicable
Register Law	
(~2023.3.31)	
Pollutant Release and Transfer	Not applicable
Register Law	
<u>(2023/4/1~)</u>	
Export Trade Control Order	Not applicable

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# **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