



SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 27-Feb-2024 Revision Number 1.07

Category 3

Category 4

Category 4

Category 2

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	4-Methyl-1,2-phenylenediamine		
Product Code	201-02172		
Supplier	FUJIFILM Wako Pure Chemical Corporation 1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741		
Emergency telephone number Recommended uses Restrictions on use	Fax: +81-6-6203-2029 +81-6-6203-3741 / +81-3-3270-8571 For research use only Seek expert judgment when using for purposes other than those recommended.		

Section 2: HAZARDS IDENTIFICATION

GHS classification <u>Classification of the substance or mixture</u> Acute toxicity - Oral Acute toxicity - Dermal Acute toxicity - Inhalation (Dusts/Mists) Skin corrosion/irritation

Pictograms



Signal word

Danger

Hazard statements

- H315 Causes skin irritation
- H301 Toxic if swallowed
- H312 Harmful in contact with skin
- H332 Harmful if inhaled

Precautionary statements-(Prevention)

- Do not eat, drink or smoke when using this product
- Avoid breathing dust/fume/gas/mist/vapors/spray
- Use only outdoors or in a well-ventilated area
- Wash face, hands and any exposed skin thoroughly after handling
- Wear protective gloves/protective clothing/eye protection/face protection

Precautionary statements-(Response)

- Call a POISON CENTER or doctor/physician if you feel unwell
- · 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
- 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

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

CH3C6H3(NH2)2

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
3,4-Diaminotoluene	95.0	122.17	(3)-126	公表	496-72-0
Note on ISHL No.:	* in the	table means announ	ced chemical substa	inces.	

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	
Precautions Do not rough handling contained scattering. Not to generate steat then gargle. In places other that contaminated protective equipments Safety handling precautions Avoid contact with skin, eyes of Storage Safe storage conditions	zing agents. Use with local exhaust ventilation. ers, such as upsetting, falling, giving a shock, and dragging. Prevent leakage, overflow, and am and dust in vain. Seal the container after use. After handling, wash hands and face, and in those specified, should not be smoking or eating and drinking. Should not be brought nent and gloves to rest stops. Deny unnecessary entry of non-emergency personnel to the r clothing. Use personal protective equipment as required.	
Storage conditions	Keep container protect from light tightly closed. Store in a cool (2-10 °C) place. Store locked up.	
Safe packaging material Incompatible substances	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 hand- and 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 Appearance Odor Melting point/freezing point Boiling point, initial boiling point and boiling range

White - dark brown crystalline powder - powder or mass no data available 89 °C 265 °C Flammability no data available no data available **Evaporation rate:** Flammability (solid, gas): no data available Upper/lower flammability or explosive limits no data available Upper: no data available Lower: no data available Flash point no data available Auto-ignition temperature: **Decomposition temperature:** no data available pН no data available Viscosity (coefficient of viscosity) no data available **Dynamic viscosity** no data available Solubilities Ethanol : soluble . water : sparingly soluble . n-Octanol/water partition coefficient:(log Pow) no data available Vapour pressure no data available Specific Gravity / Relative density no data available no data available Vapour density **Particle characteristics** no data available

Section 10: STABILITY AND REACTIVITY

Stability

 Reactivity
 no data available

 Chemical stability
 Has sublimation. Oxidized in the air. May be altered by light.

 Hazardous reactions
 Has sublimation. Oxidized in the air. May be altered by light.

 None under normal processing
 Conditions to avoid

 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)

Section 11: TOXICOLOGICAL INFORMATION

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 no data available

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

No information available

Other data

no data available

Persistence and degradability Bioaccumulative potential Mobility in soil Hazard to the ozone layer No information available 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 UN2811	
Proper shipping name: Toxic solid, organic, n.o.s. (3,4-Diaminotoluen	e)
UN classification 6.1	,
Subsidiary hazard class	
Packing group III	
Marine pollutant Not applicable	
Marine politicant Not applicable	
IMDG	
UN number UN2811	
	2)
Proper shipping name: Toxic solid, organic, n.o.s. (3,4-Diaminotoluen 6.1	=)
Subsidiary hazard class	
Packing group III	
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 UN2811	
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Proper shipping name: Toxic solid, organic, n.o.s. (3,4-Diaminotoluen	3)
UN classification 6.1	
Subsidiary hazard class	
Packing group III	
Environmentally Hazardous Not applicable	
Substance	

Section 15: REGULATORY INFORMATION

Japanese regulations Fire Service Act	Nationalizable
Fire Service Act	Not applicable
Poisonous and Deleterious	Deleterious Substances 3rd. Grade
Substances Control Law	
Industrial Safety and Health Act	t Not applicable
Industrial Safety and Health Act ([2024.4.1~] Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1)
2024~)	
Regulations for the carriage	Toxic Substances - Poison (Ordinance Art.3, Ministry of Transportation Ordinance
and storage of dangerous goods in ship	Regarding Transport by Ship and Storage, Attached Table 1)
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 Register Law	Class 2

(2023.4.1-) Class 2 - No. Export Trade Control Order Air Pollution Control Law

301 Not applicable Hazardous Air Pollutants

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-)
3,4-Diaminotoluene 496-72-0 (95.0)	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	The following contents were revised. Regulatory information.

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 Z 7252:2019. *JIS: Japanese Industrial Standards

End of Safety Data Sheet