



SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 28-Feb-2024 Revision Number 3.06

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	3,5-Xylidine
Product Code	245-00871
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 Restrictions on use	+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 Classification of the substance or mixture Acute toxicity - Oral Serious eye damage/eye irritation Specific target organ toxicity (single exposure) Category 1 blood Specific target organ toxicity (repeated exposure) Category 2 blood Acute aquatic toxicity Chronic aquatic toxicity

Category 4 Category 2B Category 1

Category 2

Category 2 Category 1

Pictograms



Signal word

Hazard statements

- H320 Causes eye irritation
- H302 Harmful if swallowed
- H410 Very toxic to aquatic life with long lasting effects
- H401 Toxic to aquatic life
- H370 Causes damage to the following organs: blood
- H373 May cause damage to the following organs through prolonged or repeated exposure: blood

Precautionary statements-(Prevention)

- 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 exposed: Call a POISON CENTER or doctor/physician
 - 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 SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- Rinse mouth
- 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

(CH3)2C6H3NH2

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
3,5-Dimethylaniline	97.0	121.18	(3)-129	*	108-69-0
Nata an IOUL Nati	مطلح من *	table measure anneur	مغمط بما ممتمع معام الممغ		

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

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). Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

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. Packed with an inert gas.
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	Concentration standard value set by the Minister of Health, Labor and Welfare (8hr)	Concentration standard value set by the Minister of Health, Labor and Welfare (Short-Term)
3,5-Dimethylaniline 108-69-0	0.5 ppm	N/A

Personal protective equipment

Respiratory protection Hand protection Eye protection Protective mask chemical protective gloves (JIS T 8116) 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	Colorless - dark reddish brown
Turbidity	clear
Appearance	liquid
Odor	Pungent odor
Melting point/freezing point	9.8 °C
Boiling point, initial boiling point and boiling range	220 °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 available
Lower:	no data available
Flash point	93 °C
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: Very soluble. water: slightly soluble.
n-Octanol/water partition coefficient:(log Pow)	no data available
Vapour pressure	no data available
Specific Gravity / Relative density	0.968 −0.973 g/m L (20°C)
Vapour density	4.19
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, Heat, flames and sparks, static electricity, spark

 Incompatible materials
 Strong oxidizing agents

 Hazardous decomposition products
 Nitrogen oxides (NOx), Carbon monooxide (CO), Carbon dioxide (CO2)

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
3,5-Dimethylaniline 7	07mg/kg (rat)	N/A	N/A

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
3,5-Dimethylaniline	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS

	classification results.	classification results.	classification results.	
		1		
Chemical Name	Acute toxicity -inhalation vapor- source information	source information	Acute toxicity -inhalation mist- source information	
3,5-Dimethylaniline	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	
Skin irritation/corrosion				
	cal Name	Skin corrosion/irritat	tion source information	
3.5-Dim	ethylaniline	Based on the NITE GHS classi	fication results.	
Serious eye damage/ irritation				
	cal Name	Serious eye damage/irr	itation source information	
3.5-Dim	ethylaniline	Based on the NITE GHS classif		
Respiratory or skin sensitization				
	cal Name	Respiratory or Skin sens	itization source information	
3,5-Dimethylaniline		Based on the NITE GHS classification results.		
Reproductive cell mutagenicity				
Chemical Name		germ cell mutagenc	ity source information	
3,5-Dimethylaniline		Based on the NITE GHS classif	fication results.	
Carcinogenicity	·	•		
Chemical Name		Carcinogenicity	source information	
3,5-Dimethylaniline		Based on the NITE GHS classi	fication results.	
Reproductive toxicity				
	cal Name	Reproductive toxic	ity source information	
	ethylaniline	Based on the NITE GHS classification results.		
STOT-single exposure				
	cal Name	STOT -single exposu	are- source information	
	3,5-Dimethylaniline		Based on the NITE GHS classification results.	
STOT-repeated exposure				
	cal Name	STOT -repeated expos	sure- source information	
	ethylaniline	Based on the NITE GHS classification results.		
Aspiration hazard		•		
	cal Name	Aspiration Hazard	source information	
3,5-Dim	ethylaniline	Based on the NITE GHS classif	fication results.	

Based on the NITE GHS classification results.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
3,5-Dimethylaniline	N/A	N/A	EC50 : Daphnia magna 2.2 mg / L 48h

Other data

Chemical Name	Short-term (acute) hazardous to the	Long-term (chronic) hazardous to the
	aquatic environment source information	aquatic environment source information
- , ,		Based on the NITE GHS classification results.

Persistence and degradability **Bioaccumulative potential** Mobility in soil Hazard to the ozone layer

Degree of decomposition: 3 % by BOD 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 Proper shipping name: UN classfication Subsidiary hazard class Packing group Marine pollutant	UN1711 Xylidines, liquid 6.1 II Yes
IMDG	
UN number	UN1711
Proper shipping name:	Xylidines, liquid
UN classfication	6.1
Subsidiary hazard class	
Packing group	II
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	UN1711
Proper shipping name:	Xylidines, liquid
UN classfication	6.1
Subsidiary hazard class	0.1
Packing group	Ш
Environmentally Hazardous	Yes
Substance	

Section 15: REGULATORY INFORMATION

Japanese regulations Fire Service Act Poisonous and Deleterious Substances Control Law Industrial Safety and Health Act	Category IV, Class III petroleums, dangerous grade 3 Not applicable t Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57) Notifiable Substances (Law Art.57-2)
Industrial Safety and Health Act (2024~)	[2024.4.1~] Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1)
Regulations for the carriage and storage of dangerous goods in ship	Toxic Substances - Poison (Ordinance Art.3, Ministry of Transportation Ordinance 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 (2023.4.1-)	Not applicable
Export Trade Control Order	Not applicable

Chemical Name	Poisonous and Deleterious	Industrial Safety and Health Act	Pollutant Release and Transfer
	Substances Control Law	Substances	Register Law
		(Law Art.57-2)	(2023.4.1-)
3,5-Dimethylaniline	-	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-)
108-69-0 (97.0)			

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 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