



# SAFETY DATA SHEET

According to JIS Z 7253:2012

Revision Date 28-Jan-2015

Version 1

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

<b>Product name</b>	2,3-Xylidine
<b>Product code</b>	048-25302
<b>CAS No</b>	87-59-2
<b>Formula</b>	(CH3)2C6H3NH2
<b>Manufacturer</b>	Wako Pure Chemical Industries, Ltd. 1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan Phone: +81 (0)6-6203-3741 Fax: +81 (0)6-6201-5964
<b>Supplier</b>	Wako Pure Chemical Industries, Ltd. 1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan Phone: +81 (0)6-6203-3741 Fax: +81 (0)6-6201-5964
<b>Emergency telephone number</b>	+81-6-6203-3741 / +81-3-3270-8571
<b>Recommended uses and restrictions on use</b>	For research purposes

## Section 2: HAZARDS IDENTIFICATION

### GHS classification

#### Classification of the substance or mixture

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Vapors)	Category 4
Serious eye damage/eye irritation	Category 2A
Reproductive Toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 2, Category 3
Category 2 blood system	
Category 3 Narcotic effects	
Specific target organ toxicity (repeated exposure)	Category 2
Category 2 blood system, liver	
aquatic environment (acute hazard)	Category 2
aquatic environment (long-term hazard)	Category 2

### Pictograms



Signal word

Warning

Hazard statements

H319 - Causes serious eye irritation  
 H302 - Harmful if swallowed  
 H332 - Harmful if inhaled  
 H361 - Suspected of damaging fertility or the unborn child  
 H336 - May cause drowsiness or dizziness  
 H401 - Toxic to aquatic life  
 H411 - Toxic to aquatic life with long lasting effects  
 H371 - May cause damage to the following organs: blood system  
 H373 - May cause damage to the following organs through prolonged or repeated exposure: blood system, liver

**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
- Do not eat, drink or smoke when using this product
- Use only outdoors or in a well-ventilated area
- Do not breathe dust/fume/gas/mist/vapors/spray
- 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 INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- Rinse mouth.
- Collect spillage

**Precautionary statements-(Storage)**

- Store in a well-ventilated place. Keep container tightly closed

**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** (CH<sub>3</sub>)<sub>2</sub>C<sub>6</sub>H<sub>3</sub>NH<sub>2</sub>

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS No
2,3-Dimethylaniline	98.0	121.17	(3)-129	N/A	87-59-2

**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.

**Ingestion**

Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician immediately.

**Protection of first-aiders**

Use personal protective equipment as required.

## Section 5: FIRE FIGHTING MEASURES

**Suitable extinguishing media**

Dry chemical, CO<sub>2</sub>, water spray or alcohol-resistant foam

**Unsuitable extinguishing media**

No information available

**Special extinguishing method**

No information available

**Specific hazards arising from the chemical product**

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

**Protection of 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. See Section 12 for additional ecological information.

**Methods and materials for contaminant and methods and materials for cleaning up**

Absorb dry sand, earth, sawdust and the waste. Collect empty container that can be sealed.

**Recovery, 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).

**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 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

<b>Respiratory protection</b>	gas mask for organic gas
<b>Hand protection</b>	Impermeable protective gloves
<b>Eye protection</b>	Wear safety glasses with side shields (or goggles)
<b>Skin and body protection</b>	Long-sleeved work clothes, protective boots

### General hygiene considerations

Do not eat, drink or smoke when using this product Wash contaminated clothing before reuse.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### Form

<b>Color</b>	Colorless - dark reddish brown
<b>Turbidity</b>	clear
<b>Appearance</b>	liquid
<b>Odor</b>	Pungent odor
<b>pH</b>	No data available
<b>Melting point/freezing point</b>	2.5
<b>Boiling point, initial boiling point and boiling range</b>	220 °C
<b>Flash point</b>	108 °C / 226 °F
<b>Evaporation rate:</b>	No data available
<b>Flammability (solid, gas):</b>	No data available
<b>Upper/lower flammability or explosive limits</b>	
<b>Upper :</b>	No data available
<b>Lower :</b>	No data available
<b>Vapour pressure</b>	No data available
<b>Vapour density</b>	4.2 (air=1)
<b>Specific Gravity (relative density)</b>	0.988-0.998g/ml
<b>Solubilities</b>	Ethanol and , acetone : soluble .
<b>n-Octanol/water partition coefficient:(log Pow)</b>	No data available
<b>Auto-ignition temperature:</b>	No data available
<b>Decomposition temperature:</b>	No data available
<b>Viscosity (coefficient of viscosity)</b>	No data available
<b>Dynamic viscosity</b>	No data available

## Section 10: STABILITY AND REACTIVITY

### Stability

<b>Stability</b>	May be altered by light.
<b>Reactivity</b>	No data available

### Hazardous reactions

Decomposes on heating or on burning, and produces toxic and corrosive gases.

### 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 monoxide (CO), carbon dioxide (CO<sub>2</sub>), Nitrogen oxides (NO<sub>x</sub>)

## Section 11: TOXICOLOGICAL INFORMATION

### Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2,3-Dimethylaniline	933mg/kg(Rat)	N/A	N/A

### Skin irritation/corrosion

Chemical Name	Skin corrosion irritation source information
2,3-Dimethylaniline	Based on the NITE GHS classification results.

### Serious eye damage/ irritation

Chemical Name	Serious eye damage source information
2,3-Dimethylaniline	Based on the NITE GHS classification results.

### Respiratory or skin sensitization

No data available

### Reproductive cell mutagenicity

No data available

### Carcinogenicity

Chemical Name	NTP	IARC	ACGIH	Japan
2,3-Dimethylaniline 87-59-2		グループ3 (IARC Suppl. 7 (1987))		

### Reproductive toxicity

No data available

### STOT-single exposure

Chemical Name	STOT -single exposure- source information
2,3-Dimethylaniline	Based on the NITE GHS classification results.

### STOT-repeated exposure

Chemical Name	STOT -repeated exposure- source information
2,3-Dimethylaniline	Based on the NITE GHS classification results.

### Aspiration hazard

No data available

## Section 12: ECOLOGICAL INFORMATION

### Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
2,3-Dimethylaniline	N/A	N/A	EC50= 9.9mg/L 48 h

### Other data

No data available

### Persistence and degradability

Degree of decomposition : 3 % by BOD (METI Existing chemical safety inspections)

### Bioaccumulative potential

No information available

### Mobility in soil

No information available

### Hazard to the ozone layer

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

<b>UN number</b>	UN1711
<b>Proper shipping name:</b>	Xylidines, liquid
<b>UN classification</b>	6.1
<b>Subsidiary hazard class</b>	
<b>Packing group</b>	II
<b>ERG Code</b>	6L
<b>Marine pollutant</b>	Yes

**IMDG**

<b>UN number</b>	UN1711
<b>Proper shipping name:</b>	Xylidines, liquid
<b>UN classification</b>	6.1
<b>Subsidiary hazard class</b>	
<b>Packing group</b>	II
<b>EmS-No</b>	F-A, S-A
<b>Marine pollutant (Sea)</b>	Yes

**IATA**

<b>UN number</b>	UN1711
<b>Proper shipping name:</b>	Xylidines, liquid
<b>UN classification</b>	6.1
<b>Subsidiary hazard class</b>	
<b>Packing group</b>	II
<b>Environmentally Hazardous Substance</b>	Yes

## Section 15: REGULATORY INFORMATION

**International Inventories**

<b>EINECS/ELINCS</b>	Listed
<b>TSCA</b>	Listed

**Japanese regulations**

<b>Fire Service Act</b>	Category IV, Class I I I petroleums, dangerous grade 3
<b>Poisonous and Deleterious Substances Control Law</b>	Not applicable
<b>Industrial Safety and Health Act</b>	Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2 Attached Table No.9)No.135
<b>Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc</b>	Not applicable
<b>Regulations for the carriage and storage of dangerous goods in ship</b>	Toxic Substances - Poison (Ordinance Art.3, Ministry of Transportation Ordinance Regarding Transport by Ship and Storage, Attached Table 1)
<b>Civil Aeronautics Law</b>	Toxic and Infectious Substances (Ordinance Art.194, MITL Notification for Air Transportation of Explosives etc., Attached Table 1)
<b>Pollutant Release and Transfer Register Law</b>	Class 2
<b>Class 2 - No.</b>	50
<b>Export Trade Control Order</b>	Not applicable

## Section 16: OTHER INFORMATION

**Literature and references**

**Disclaimer**

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(2010). \*JIS: Japanese Industrial Standards

**End of Safety Data Sheet**