



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