



Material Safety Data Sheet	2,4 Xylidine
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1 Product And Company Identification :	
Product Name	: 2,4 Xylidine
Other/Generic Names	: 2,4-Dimethylaniline 2,4-Dimethylbenzeneamine 1-Amino-2,4-dimethylbenzene 4-Amino-1,3-dimethylbenzene 4-Amino-m-xylene 4-Amino-1,3-xylene
CAS No.	: 95-68-1
Product use	: Used as an epoxy curing agent, a corrosion inhibitor and molded plastics, and as an intermediate to prepare organic compounds used for polyurethane, spandex fibers, azo dyes, isocyanates and poly(amide-imide) resins, rubber chemicals (vulcanization accelerators and antioxidants), and pigments.
Supplier	Deepak Nitrite Ltd. Aaditya-I, National Highway No. 8, Chhani Road, Vadodara - 390 024, India Manufacturing facilities at : Vadodara, Roha, Taloja & Hyderabad. Contact no. : +91-9904406400
For Chemical Emergency	Spill, Leak, Fire, Exposure, or Accident, Call CHEMTREC Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-527-3887

2 Hazard Identification :	
GHS classification (Classification according to Regulation (EC) No 1272/2008)	Hazard statement (s)
Health Hazards 4	H301 Harmful if swallowed
Physical Hazards 0	H331 Toxic if inhaled. H311 Toxic in contact with skin. H373 May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard. H411 Toxic to aquatic life with long lasting effects.

EC classification (Classification according to Directive 67/548/EEC)

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T: R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R33	Danger of cumulative effects.
N: R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Hazard pictograms	Toxic, Dangerous for the environment
	 
Signal word	Warning

3 Composition / Information On Ingredients :

Chemical formula	: C ₈ H ₁₁ N
Common Name	: 2,4-Xylidine
Synonyms	: 2,4-Dimethylaniline 2,4-Dimethylbenzeneamine 1-Amino-2,4-dimethylbenzene 4-Amino-1,3-dimethylbenzene 4-Amino-m-xylene 4-Amino-1,3-xylene
Molecular weight	: 121.18 g/mol
CAS No.	: 95-68-1
Index No.	: 612-027-00-0
UN No.	: 1711
EINECS No.	: 202-440-0

4 First Aid Measures :

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration

Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5 Fire Fighting Measures:

Flammable properties

Flash point 98 °C (208 °F) - closed cup

Ignition temperature 460 °C (860 °F)

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

6 Accidental Release Measures :

Personal precautions

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods for cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

7 Handling & Storage :

Handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Normal measures for preventive fire protection.

Storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

8 Exposure Control / Personal Protection :

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Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves.

Eye protection

Safety glasses

Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

9 Physical And Chemical Properties :

Appearance	: Clear, liquid
Colour	: colourless
Odour	: Characteristic aromatic odour
pH (1% Solution)	: No data available
Boiling Point/range	: 218 °C (424 °F) - lit.
Melting point	: -14.3 °C (6.3 °F) - lit.
Flash Point	: 98 °C (208 °F) - closed cup
Autoignition temperature	: 460 °C (860 °F)
Lower explosion limit	: 1.1 %(V)
Upper explosion limit	: 7 %(V)
Vapour Pressure	: 0.51 hPa (0.38 mmHg) at 38 °C (100 °F) 0.21 hPa (0.16 mmHg) at 25 °C (77 °F)
Density	: 0.98 g/mL at 25 °C (77 °F)
Solubility water	: 3.4 g/litre at 20 °C, 51 g/litre at 60 °C.
Relative vapour density	: 4.18 - (Air = 1.0)

10 Stability And Reactivity :

Storage stability

Stable under recommended storage conditions.

Materials to avoid

acids, Acid chlorides, Acid anhydrides, Oxidizing agents, Chloroformates, Halogens

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx)

11 Toxicological Information :

Acute toxicity	:	LD50 Oral - rat - 467 mg/kg
RTECS#	:	ZE8925000
Carcinogenicity	:	This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.
Health Warnings	:	Inhalation Toxic if inhaled. May cause respiratory tract irritation. Skin Toxic if absorbed through skin. May cause skin irritation. Eyes May cause eye irritation. Ingestion Harmful if swallowed.
Target organs	:	Eyes, blood
Chronic exposure	:	IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (2,4-Xylidine) ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

12 Ecological Information :

Acute fish toxicity	:	LC0 - Leuciscus idus melanotus - 98 mg/l - 48 h LC50 - Leuciscus idus melanotus - 196 mg/l - 48 h
Acute toxicity to aquatic invertebrates	:	EC50 - Daphnia magna (Water flea) - 9.9 mg/l - 48 h.

Further information on ecology

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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13 Disposal Considerations :

Product

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

14 Transport Information :

UN No. : 1711

Hazard Class : 6.1

Packing Group : II

DOT (US)

UN-Number: 1711 Class : 6.1 Packing group: II

Proper shipping name : Xylidines, liquid

Marine pollutant : Yes

Poison Inhalation Hazard : No

IMDG

UN-Number: 1711 Class: 6.1 Packing group: II EMS-No: F-A, S-A

Proper shipping name: XYLIDINES, LIQUID

Marine pollutant: Yes

IATA

UN-Number: 1711 Class: 6.1 Packing group: II

Proper shipping name: Xylidines, liquid

15 Regulatory Information :

Safety Information according to GHS

Hazard Statement (s)

H301 Harmful if swallowed

H331 Toxic if inhaled.

H311 Toxic in contact with skin.

H373 May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H411 Toxic to aquatic life with long lasting effects.


Precautionary Statement (s)

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor / physician.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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Signal Word	Warning
Hazard Pictogram(s):	
RTECS#	: ZE8750000
Labeling according to EC directives	
Hazard symbols	: T- Toxic , N - Dangerous for the environment
Risk phrases	: R23/24/25 : Toxic by inhalation, in contact with skin and if swallowed. R33 : Danger of cumulative effects. R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety phrases	: S28 : After contact with skin, wash immediately with plenty of water. S36/37 : Wear suitable protective clothing and gloves. S45 : In case of accident or if you feel unwell, seek medical advice immediately. (show the label where possible) S61 : Avoid release to the environment. Refer to special Instructions /safety data sheets.
OSHA Hazards Target Organ Effect, Toxic by inhalation., Harmful by ingestion., Toxic by skin absorption	

16 Other Information:

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DISCLAIMER : Deepak Nitrite Ltd. provides the information contained herein in good faith but makes no representation as to comprehensiveness or accuracy. This document is only as a guide to a properly trained person, for the appropriate precautions and handling of the material. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. The data does not signify any warranty with regard to the product's properties.