

Material Safety Data Sheet	3,5-Xylidine
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1 Product And Company Identification :	
Product Name	: 3,5-Xylidine
Other/Generic Names	: 3,5-Dimethylaniline 3,5-Dimethylbenzeneamine 1-Amino-3,5-dimethylbenzene 5-Amino-m-xylene 5-Amino-1,3-xylene
CAS No.	: 108-69-0
Product use	: Xylidines and derivatives are widely used as raw materials to produce imaging chemicals like pigments and dyestuffs. All of these compounds are also used in the production of antioxidants, agricultural, pharmaceutical, rubber chemicals and other target organic molecules.
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 Flammability: 2 Physical hazards: 0	H302 Harmful if swallowed. H336 May cause drowsiness or dizziness. H226 Flammable liquid and vapour.
EC classification (Classification according to Directive 67/548/EEC)	
T: R 23/24/25 R 33	Toxic by inhalation, in contact with skin & if swallowed. Danger of cumulative effects
N: R 51/53	Toxic for water organisms. Can have long term damaging effects in water streams
Hazard pictograms	



Signal word

Warning

3 Composition / Information On Ingredients :

Chemical formula	: C ₈ H ₁₁ N
Common Name	: 3,5-Xylidine
Synonyms	: 3,5-Dimethylaniline 3,5-Dimethylbenzeneamine 1-Amino-3,5-dimethylbenzene 5-Amino-m-xylene 5-Amino-1,3-xylene
Molecular weight	: 121.18 g/mol
CAS No.	: 108-69-0
Index No.	: 612-027-00-0
UN No.	: 1711
EINECS No.	: 203-607-0

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. 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 93 °C (199 °F) - closed cup

Ignition temperature 590 °C (1,094 °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.

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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 and materials for containment and 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 inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

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. Store in cool place.

8 Exposure Control / Personal Protection :

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose 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

Face shield and safety glasses

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9 Physical And Chemical Properties :

Appearance	: Liquid
Colour	: Yellow to reddish brown liquid
Odour	: Characteristic aromatic odour
pH (1% Solution)	: Not applicable
Boiling Point/range	: 220 °C – 221 °C.
Melting point	: 9.8 °C
Flash Point	: 93 °C (201 °F)

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Autoignition temperature	: 590 °C (1,094 °F)
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Vapour Pressure	: 1.29 hPa (0.97 mmHg) at 20 °C (68 °F)
Density	: 0.970 g/cm ³
Solubility water	: Water :<1 mg/ml @ 18 C (RAD) Soluble in ether. Acetone:>=100 mg/ml@ 18 C (RAD).
Relative vapour density	: Relative density (water = 1): 0.97 Relative vapour density (air = 1): 4.19

10 Stability And Reactivity :

Storage stability:

Stable under recommended storage conditions.

Materials to avoid

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

Possibility of hazardous reactions

Vapours may form explosive mixture with air.

Condition to avoid

Heat, flames and sparks.

Hazardous decomposition products

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

11 Toxicological Information :

Acute toxicity	: Oral LD ₅₀ Rat 707 mg/kg Mouse LD ₅₀ (oral) 421mg/kg
RTECS#	: ZE9625000
Category of danger	: Combustible, Target Organ Effect, Highly toxic by inhalation, Harmful by ingestion, Toxic by skin absorption
Carcinogenicity	: DFG: Category 3A (could be carcinogenic for man)
Storage class	: Above 93°C explosive vapour/air mixtures may be formed.
Target organs	: Blood, Damage to the eyes.
Potential health effects	: Inhalation May be fatal 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.

12 Ecological Information :

Acute fish toxicity LC ₅₀	: Toxicity to fish LC ₅₀ - Oryzias latipes - 17 mg/l - 48 h
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Acute toxicity to aquatic invertebrates EC50	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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13 Disposal Considerations :

Product

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

Packaging

Dispose of as unused product.

14 Transport Information :

UN No. : 1711

Hazard Class : 6.1

Packing Group : II

US DOT Information

Shipping Name: Xylidines, liquid Hazard Class: 6.1 UN/NA #: UN1711

Packing Group: II Required Label(s): 6.1

TDG Information

Shipping Name: Xylidines, liquid Hazard Class: 6.1 UN #: UN1711 Packing

Group: II Required Label(s): 6.1

ADR Information

Shipping Name: Xylidines, liquid Hazard Class: 6.1 UN #: UN1711 Packing Group: II

Required Label(s): 6.1

RID Information

Shipping Name: Xylidines, liquid Hazard Class: 6.1 UN #: UN1711 Packing Group: II

Required Label(s): 6.1

IATA Information

Shipping Name: Xylidines, liquid Hazard Class: 6.1 UN #: UN1711 Packing Group: II

Required Label(s): 6.1

IMDG Information

Shipping Name: Xylidines, liquid Hazard Class: 6.1 UN #: UN1711 Packing Group: II

15 Regulatory Information :

Safety Information according to GHS

Hazard Statement (s)

H226: Flammable liquid and Vapour.

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Precautionary Statement (s) P210-Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
P233-Keep container tightly closed.
P241+P242+P243-Use explosion-proof electrical/ventilating/lighting equipment. Take precautionary measures against ignition by the static discharge and the spark.
P261-Avoid breathing.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Signal Word Warning

Hazard Pictogram(s):



RTECS# : ZE9625000

Labeling according to EC directives

Hazard symbols : Xn, Harmful

Risk phrases : R22- Harmful if ingested.
R39- Danger of very serious irreversible effects.
R26/27/28- Very toxic by inhalation, in contact with skin and if swallowed

Safety phrases : S28 : After contact with skin, wash immediately with plenty of water
S-36/37: Wear suitable protective clothing & gloves
S-45 : In case of accident or if you feel unwell, seek medical advice immediately.
S61 : Avoid open release to the environment

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OSHA Hazards

Combustible Liquid, Target Organ Effect, Highly toxic by inhalation, Harmful by ingestion., Toxic by skin absorption

DSL Status

This product contains the following components that are not on the Canadian DSL nor NDSL lists. 3,5-Xylidine CAS-No. 108-69-0

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

16 Other Information:

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.