

# Deepak Nitrite Limited

## Material Safety Data Sheet

## 2,4 Xylidine

### 1 Product And Company Identification :

Product Name : **2,4 Xylidine**  
 CAS No. : **95-68-1**  
 Supplier : Deepak Nitrite Ltd.  
 National Games Road, Opposite Golf Course,  
 Yerawada, Pune – 411 006. (India).  
 Tel No. : +91 – 20 – 56090200  
 Telefax : +91 – 20 – 26685448  
 E – mail : export@deepaknitrite.com  
 Emergency tel. No : +91 – 22 – 27411127

### 2 Composition / Information On Ingredients :

Hazardous components : 2,4-Xylidine  
 Synonyms : 1-Amino, 2,4 Dimethyl benzene, 4-Amino  
 3-Methyl Toluene, 2,4Dimethyl Benzene Amine,  
 4-Methyl O-Toluidine, 2,4 Dimethyl 1 –Aniline  
 Chemical formula :  $C_8H_{11}N$   
 Molecular weight : 121.18  
 CAS No. : 95-68-1  
 UN No. : 1711  
 EINECS No. : 202-440-0  
 Hazard symbols : T,N  
 Risk phrases : R-23/24/25/33  
 Safety phrases : S –28/36/37/45

### 3 Hazards Identification :

#### Emergency overview:

It can enter the body by inhalation or through skin and is toxic. Toxic for water organisms. Can have long term damaging effect on water streams.

Immediate effects: Irritates eyes, respiratory system & skin

NFPA rating: Health :3, Flammability 2, Reactivity 0

Combustible, keep away from heat & open flame

Label precaution: Keep away from heat & open flame

Label hazard warning: Highly toxic USA

#### Potential Health Effects:

The toxicological properties of this material have not been fully investigated, though absorption into the body leads to formation of methemoglobinemia, which can further cause cyanosis & it also causes irreversible effects & irritation of respiratory system.

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### 4 First Aid Measures :

Remove all contaminated clothing immediately.

Following skin contact : Wash skin immediately with polyethylene glycol 400, followed by plenty of water and soap. If skin reactions occur, contact a physician.

Following eye contact: Open the eyelids and rinse for an adequate length of time with water. Consult an eye specialist immediately.

Upon inhalation : Remove victim to fresh air area. If there is difficulty in breathing, medical attention should be obtained.

Upon ingestion: Do not induce if the victim is conscious & not convulsing, give 1 or 2 glasses of water & immediately send to hospital.

Notes to physician : To monitor circulation and medically for 48 hours. Put on oxygen if need be. Prescribe Vitamin C in case of cyanosis and keep away from sunlight.

### 5 Fire Fighting Measures :

Fire Extinguishing Media : Dry chemical powder, alcohol resistant foam, water.

Beware of formation of toxic fumes of Nitrogen oxides. Wear respiratory protection equipment, with protective clothing to prevent contact with skin & eyes

Do not allow contaminated extinguishing water to enter soil, ground or surface waters.

### 6 Accidental Release Measures :

Fill into labelled sealable containers.

Use necessary personal protective equipment when handling. Absorb on sand or vermiculite & place in closed containers for disposal. Ventilate the area & wash spill site after material pick up is complete

### 7 Handling & Storage :

Store in a cool, dry, well ventilated area, away from heat.

During processing, ensure sufficient exhaust ventilation in the working area. Vent waste air via suitable separators or scrubbers.

### 8 Exposure Control / Personal Protection :

To reduce exposure, provide adequate local exhaust ventilation at work place. make use of chemical fume hood

Respiratory protection :Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

Eye protection: Goggles

Wear 0.5 mm butyl rubber gloves if long term contact with product is possible. Nitrile rubber gloves may be used for very short term contact.

Avoid contact with eyes or skin. Do not inhale vapours.

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### 9 Physical And Chemical Properties :

Colour	: Pale yellow liquid
Odour	: Aromatic amine odour
pH	: NA
Boiling Point/range	: 218 °C
Melting point	: -
Flash Point	: 98 °C (195 °F)
Explosion properties	: LEL 1.1%, UEL 7%.
Density	: 0.995 at 20 °C.
Solubility	: 3.4 g/litre at 20 °C, 51 g/litre at 60 °C.
Autoignition temp.	: 459°C (860°F)
Specific gravity	: 0.980

### 10 Stability And Reactivity :

Chemically stable. Reacts with oxidising material.

Formation of nitrogen oxides, carbon monoxide and carbon dioxide in the event of fire.

Incompatibilities : Acids, acid chlorides, acid anhydride, oxidizing agent, chloroformates. Halogens. Plastic material could be damaged.

Store away from heat & direct sunlight.

### 11 Toxicological Information :

Acute toxicity	: May be fatal if inhaled, swallowed or absorbed through skin. Vapor or mist is irritating to eyes, mucous membranes & upper respiratory tract. Causes skin irritation.
Irritation of the eyes	: Irritating ( rabbit eye)
Irritation of the skin	: Irritation (rabbit).
RTECS#	: ZE8925000
Carcinogenicity	: 2,4 Dimethyl Aniline IARC Group Carcinogen
Special properties	: Absorption into the body leads to formation of methemoglobin, which can further cause cyanosis.
Toxicity data	
Oral-rat	: LD50:467mg/kg
Oral-mus	: LD50:250mg/kg
lhl-mus	: LD50:149 ppm/7 hr

### 12 Ecological Information :

Acute fish toxicity EC50 9.9 mg/litre ( Daphnia, 48 hrs).

The product does not contain any organically bonded halogens, which can lead to AOX values in the waste water.

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### 13 Disposal Considerations :

Examine possibilities for re-utilisation. Package product wastes. Close and label waste containers. Dispose these at a suitable waste incineration plant in accordance with the official regulations. Where large quantities are concerned, consult the supplier. When uncleaned empty containers / packing material is passed on, the recipient must be warned of any possible hazard that may be caused by the residues. This combustible material may be burned in a chemical incinerator equipped with an after burner & scrubber observe all federal, state & local environmental regulations

### 14 Transport Information :

UN No. : 1711                      Hazard Class : 6.1                      Packing Group : -II  
Proper shipping name : Xylidines Liquid  
Declaration for land shipment : ADR / ADNR / RID - As above. Shipment permitted.  
Declaration for sea shipment : As Above. Shipment permitted.  
Declaration for air shipment (IATA) : As above. Shipment permitted.  
Packing instruction, passenger : -  
Packing instruction : -

### 15 Regulatory Information :

Symbols : T : Toxic,  
                    N : Environmentally Hazardous.  
Contains 2,4 Xylidine  
Risk Phrases:  
R 23/24/25 : Toxic by inhalation, in contact with skin & if swallowed  
R33 : Danger of cumulative effects  
R51/53 : Toxic for water organisms. Can have long term damaging effects in water streams.  
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.

OEL – Austria: Mak 5 ppm (25 mg/m<sup>3</sup>) skin suspected carcinogen  
EP TSCA Section 8(B) chemical inventory  
OEL – The Netherlands : MAC – TCC 0.5 ppm (2.5 mg/m<sup>3</sup>)

### 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 judgement in determining its appropriateness for a particular purpose. The data does not signify any warranty with regard to the product's properties.