

## Deepak Nitrite Limited

<b>Material Safety Data Sheet</b>	<b>2,4 Nitro Xylene</b>
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### 1 Product And Company Identification :

Product Name : **2,4 Nitro Xylene**  
CAS No. : **89-87-2**

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 Composition / Information On Ingredients :

Hazardous components : **2,4 Nitro Xylene**

Synonyms : 1,3 Dimethyl-4nitrobenze;

Chemical formula :  $C_8H_9NO_2$

Molecular weight : 151.17

CAS No. : 89-87-2

UN No. : UN1665

EINECS No. : 201-947-4

Hazard symbols : T

Risk phrases : R-23/24/25/33

Safety phrases : S-28A/37/45

### 3 Hazards Identification :

#### Potential Health Effects:

**Eye:** May cause eye irritation.

**Skin:** May cause skin irritation.

**Ingestion :** May cause digestive tract disturbances. The toxicological properties of this material have not been fully investigated. Methemoglobinemia is characterized by dizziness, drowsiness, headache, shortness of breath, cyanosis (bluish discolourisation, rapid heart rate and chocolate-brown coloured blood.

**Inhalation:** May cause respiratory tract irritation. The toxicological properties of this material have not been fully investigated. Methemoglobinemia is characterized by dizziness, drowsiness, headache, and shortness of breath, cyanosis (bluish discolourisation, rapid heart rate and chocolate-brown coloured blood.

### 4 First Aid Measures :

**Eyes :** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Get medical aid.

**Skin:** Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

**Ingestion:** Never give any thing by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious rinse mouth and drink 2-4 cupfuls of milk or water.

**Inhalation:** Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. Get Medical aid.

**Notes to Physician :** Treat symptomatically and supportively.

#### **5 Fire Fighting Measures :**

**General Information:** As in any fire wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

**Fire Extinguishing Media :** Use water spray, dry chemical powder, carbon dioxide or appropriate foam.

NFPA Rating : Health – 2 ; Flammability – 0 ; Reactivity – 0.

#### **6 Accidental Release Measures :**

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/ Leaks:** Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Provide ventilation.

#### **7 Handling & Storage :**

**Handling:** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid ingestion and inhalation.

**Storage:** Store in a tightly closed container. Store in a cool, dry, well ventilated area, away from incompatible substances.

#### **8 Exposure Control / Personal Protection :**

**Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility & a safety shower. Use adequate ventilation to keep airborne concentrations low.

#### **Personal Protective Equipment :**

**Eyes:** Wear appropriate safety eyeglasses or chemical safety Goggles as described by OSHA's eye & face protection regulations in 29 CFR 1910.133 or European Standard EN 166.

**Skin :** Wear appropriate protective gloves to prevent skin exposure.

**Clothing :** Wear appropriate protective clothing to prevent skin exposure.

**Respiratory protection:** A respiratory protection programme that meets OSHA's 29 CFR 1910.134 and ANSIZ88.2 requirements or European Standard EN 149 must be followed whenever work place conditions warrant respirator use.

**9 Physical And Chemical Properties :**

Colour : Yellow liquid  
Odour : None reported  
pH : Data not available  
Boiling Point/range : 244 °C @ 760.00 mm Hg  
Melting point : Data not available  
Flash Point : 107 °C  
Explosion properties : Data not available  
Density : 1.131 g/cm<sub>3</sub>  
Vapour pressure : Data not available  
Relative vapour density : ( air=1): 5.21  
Auto-ignition temp : Data not available  
Solubility : Data not available

**10 Stability And Reactivity :**

**Chemically stable:** Stable under normal temperatures and pressures.  
**Incompatibilities with Other Materials:** Strong oxidizing agents, strong bases.  
**Hazardous Decomposition Products :** Nitrogen oxides, carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, nitrogen.

**11 Toxicological Information :**

Acute toxicity : Data not available.  
Irritation of the eyes : May cause irritation  
Irritation of the skin : May cause irritation.  
RTECS# : Data not available.  
Carcinogenicity : Data not available.  
Special properties : Data not available.

**12 Ecological Information :**

Acute fish toxicity Data not available

**13 Disposal Considerations :**

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**14 Transport Information :**

UN No. : UN1665 Hazard Class : 6.1 Packing Group : II  
Proper shipping name : Nitroxylenes  
Declaration for land shipment : Data not available  
Declaration for sea shipment : Data not available  
Declaration for air shipment (IATA) : Data not available

**15 Regulatory Information :**

Symbols : T : Toxic,  
Contains Nitroxylenes  
Risk Phrases:  
R-23/24/25 : Toxic by inhalation, in contact with skin & if swallowed  
R-33 : Danger of cumulative effects  
Safety Phrases :  
S-28A : After contact with skin, wash immediately with plenty of water  
S-37 : Wear suitable protective gloves  
S-45 : In case of accident or if you feel unwell, seek medical advice immediately.

**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.