

Deepak Nitrite Limited

Material Safety Data Sheet

3 Nitro O-Xylene (3-NOX)

1 Product And Company Identification :

Product Name : 3 Nitro O- Xylene

Other/Generic Names : 1,2-Dimethyl-3-nitrobenzene
3-Nitro-1,2-dimethylbenzene
3-Nitro-o-xylene

CAS No. : **83-41-0**

Product use : Intermediate for Agro chemicals & Pharma

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)

Health Hazards
Category 1

EC classification (Classification
according to Directive
67/548/EEC)
T: R23/24/25

R33

N: R51/53

Hazard pictograms

Hazard statement (s)

H303 : May be harmful if swallowed.
H320 : Causes eye irritation.
H401 : Toxic to aquatic life.

Toxic by inhalation, in contact with skin and if
swallowed.
Danger of cumulative effects.
Toxic to aquatic organisms, may cause long-term
adverse effects in the aquatic environment.
WGK 2 water endangering



Signal word

Danger

3 Composition / Information On Ingredients :

Deepak Nitrite Limited

Chemical formula	: C ₈ H ₉ NO ₂
Common Name	: 3-Nitro- <i>o</i> -xylene
Synonyms	: 1,2-Dimethyl-3-nitrobenzene 3-Nitro-1,2-dimethylbenzene 3-Nitro- <i>o</i> -xylene
Molecular weight	: 151.16 g/mol
CAS No.	: 83-41-0
Index Number	:
UN No.	: 3082
EINECS No.	: 201- 474 - 3

4 First Aid Measures :

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

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:

Flash Point : 107 °C (225 °F) - closed cup

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.

Special hazards caused by the material, its products of combustion or resulting gases:

In case of fire, the following can be released: Carbon monoxide and carbon dioxide
Nitrogen oxides (NO_x)

Deepak Nitrite Limited

6 Accidental Release Measures : **Personal precautions**

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

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. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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 :

Precautions for safe handling

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

Conditions for safe 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 :

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 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. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection:

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection:

impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

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	: Clear, liquid
Colour	: Yellow
Odour	: Characteristic aromatic odour
pH (1% Solution)	: -
Boiling Point/range	: 245 °C (473 °F) - lit.
Melting point	: 7 - 9 °C (45 - 48 °F) - lit.
Flash Point	: 107 °C (225 °F) - closed cup
Ignition temperature	: Data Not Available
Lower explosion limit	: Data Not Available
Upper explosion limit	: Data Not Available
Vapour Pressure	: 13 Pa at 25°C
Density	: 1.129 g/cm ³ at 25 °C (77 °F)
Solubility water	: 117 mg/L in water @ 25 °C

10 Stability And Reactivity :

Chemical stability

Stable under recommended storage conditions

Materials to avoid

Strong oxidizing agents, Strong bases

Hazardous decomposition products

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

11 Toxicological Information :

Acute toxicity	: LD50 Oral - rat - female - 2,110 mg/kg
RTECS#	: CAS# 83-41-0 unlisted
Storage Class	: 10 Combustible liquids not in Storage Class 3
Health Warnings	: Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Ingestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. May cause skin irritation. Eyes May cause eye irritation.
Target organs	: Eyes, blood

Deepak Nitrite Limited

Chronic exposure

- : IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- 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 : Toxicity to daphnia and other aquatic invertebrates.
LC50 - Daphnia magna (Water flea) - 4.2 mg/l - 48 h
- Acute toxicity to aquatic invertebrates : EC50 - Daphnia magna (Water flea) - 4,2 mg/l - 48 h
- An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life.
- WGK 2 water endangering

13 Disposal Considerations : **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

3

Relatively unreactive organic reagents should be collected in container A. If halogenated, they should be collected in container B. For solid residues use container C.

Dispose of as unused product.

14 Transport Information :

UN No. : 1665

Hazard Class : 6.1

Packing Group : II

Proper shipping name : Nitroxylenes, liquid

Declaration for land shipment : Nitroxylenes, liquid UN1665 Hazard Class: 6.1 Packing Group: II

Declaration (transport by sea) IMDG-Code UN 1665 NITROXYLENES, LIQUID 6.1, II

Declaration (transport by air) IATA-DGR UN 1665 NITROXYLENES, 6.1, II

15 Regulatory Information :

Safety Information according to GHS

Hazard Statement (s) H303 May be harmful if swallowed.
H320 Causes eye irritation.
H401 Toxic to aquatic life.

Precautionary Statement (s) P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Signal Word : Danger

Hazard Pictogram(s):



RTECS# : CAS# 83-41-0 unlisted

Labeling according to EC directives

Hazard symbols : Xn Harmful , T , 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.

Deepak Nitrite Limited

OSHA Hazards

No known OSHA hazards

US Federal TSCA: CAS# 83-41-0 is listed on the TSCA inventory.

DSL Status

This product contains the following components listed on the Canadian NDSL list. All other components are on the Canadian DSL list. CAS-No. 83-41-0 , 3-Nitro-o-xylene

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

Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

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

Pennsylvania Right To Know Components

3-Nitro-o-xylene CAS-No. 83-41-0

New Jersey Right To Know Components

3-Nitro-o-xylene CAS-No. 83-41-0

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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.