

Deepak Nitrite Limited

Material Safety Data Sheet

Ortho Nitro Toluene

1 Product And Company Identification :

Product Name : **Ortho Nitro Toluene**
 CAS No. : 88-72-2
 Supplier : Deepak Nitrite Ltd.
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 Yerawada, Pune – 411 006. (India).
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2 Composition / Information On Ingredients :

Hazardous components : Ortho Nitro Toluene
 Synonyms : alpha-Methylnitrobenzene; 2-Nitrotoluene
 Chemical formula : $C_7H_7NO_2$
 Molecular weight : 137.13
 CAS No. : 88-72-2
 UN No. : 1664
 EINECS No. : 201-853-3
 Hazard symbols : T – Toxic
 N – Dangerous for the environment
 Risk phrases : R23/24/25, R33, R51/53
 Safety phrases : S28B, S37, S45, S61

3 Hazards Identification :

Potential Health Effects:
 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.
 Eye: May cause eye irritation.
 Skin: Toxic in contact with skin.
 Ingestion: Poison by ingestion.
 Inhalation: Toxic if inhaled.
 Chronic: Not available.

4 First Aid Measures :

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids.
 Skin: Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.
 Ingestion: Do NOT induce vomiting. Allow the victim to rinse his mouth and then to drink 2-4 cupfuls of water, and seek medical advice.
 Inhalation: Remove from exposure to fresh air immediately.
 Notes to Physician: Treat symptomatically.

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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.

Extinguishing Media:

In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.

Autoignition Temperature: 415 °C (779 °F)

Flash Point: 106 °C

NFPA Rating: Health - 3; Flammability -1; Reactivity -1

Explosion Limits: Not available.

6 Accidental Release Measures :

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Absorb spill with inert material, (e.g., dry sand or earth), then place into a chemical waste container.

7 Handling & Storage :

Handling:

Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing.

Storage:

Store in a cool, dry place. Store in a tightly closed container.

8 Exposure Control / Personal Protection :

Engineering Controls:

Use adequate general or local exhaust ventilation to keep airborne Concentrations below the permissible exposure limits.

Personal Protective Equipment

Eyes: Wear safety glasses and chemical goggles if splashing is possible.

Skin: Wear appropriate protective gloves and clothing to prevent skin exposure.

Clothing: Wear appropriate protective gloves and clothing to prevent skin exposure.

Respirators: Wear a NIOSH/MSHA or European Standard EN 149 approved full-face piece airline respirator in the positive pressure mode with emergency escape provisions.

9 Physical And Chemical Properties :

Colour	: yellow
Odour	: Not available
pH	: Not available
Boiling Point/range	: 225 °C at 760 mm Hg
Melting point	: - 4 to -3 °C
Flash Point	: 106 °C
Explosion properties	: Not available
Density	: 1.163 g/cm ³
Solubility	: 0.54 g/l water (20fC)

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10 Stability And Reactivity :

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid: Not available.

Incompatibilities with Other Materials:

Oxidizing agents, reducing agents, strong bases.

Hazardous Decomposition Products:

Nitrogen oxides, carbon monoxide, carbon dioxide, nitrogen.

Hazardous Polymerization: Has not been reported.

11 Toxicological Information :

Acute toxicity : Not available

Irritation of the eyes : Not available

Irritation of the skin : Not available

RTECS# : CAS# 88-72-2: XT3150000 , Oral, rat: LD50 = 891mg/kg

Carcinogenicity : 2-Nitrotoluene - IARC: Group 3 carcinogen
See actual entry in RTECS for complete information.

Special properties : Not available

12 Ecological Information :

Acute fish toxicity : Not available

For further information,

13 Disposal Considerations :

Dispose of in a manner consistent with federal, state, and local regulations.

14 Transport Information :

UN No. : UN1664

Hazard Class : 6.1

Packing Group : II

Proper shipping name :

Declaration for land shipment : Not available

Declaration for sea shipment : Not available

Declaration for air shipment (IATA) : Not available

Packing instruction, passenger : Not available

Packing instruction, cargo : Not available

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15 Regulatory Information :

Symbols : T – Toxic , N – Dangerous for the Environment

Hazard Symbols: T, N

Risk Phrases:

R 23/24/25 Toxic by inhalation, in contact with skin And if swallowed.

R 33 Danger of cumulative effects.

R 51/53 Toxic to aquatic organisms; may cause Long-term adverse effects in the aquatic environment.

Safety Phrases:

S 37 Wear suitable gloves.

S 45 In case of accident or if you feel unwell, seek Medical advice immediately

S 28B After contact with skin, wash immediately with Plenty of water and soap.

S 61 Avoid release to the environment. Refer to Special instructions/Safety data sheets.

WGK (Water Danger/Protection) : CAS# 88-72-2: 3

Exposure Limits

OEL-AUSTRALIA:TWA 2 ppm (11 mg/m³);Skin

US FEDERAL / TSCA / CAS# 88-72-2 is listed on the TSCA inventory.

16 Other Information:

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