

# Deepak Nitrite Limited

## Material Safety Data Sheet

m-nitrotoluene

### 1 Product And Company Identification :

Product Name	:	m-nitrotoluene,
Other/Generic Names	:	m-nitrotoluene, 3-Nitrotoluene m-nitrophenylmethane, 3-methylnitrobenzene, 3-nitrotoluol, 1-methyl-3-nitrobenzene, m-nitrotoluol, MNT
CAS No.	:	99-08-1
Product use	:	Intermediates for dyestuffs and photographic developers including compounds used in the agricultural chemical, pesticide, petrochemical, pharmaceutical, and rubber industries.
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 :

<b>GHS classification (Classification according to Regulation (EC) No 1272/2008)</b>	<b>Hazard statement (s)</b>
Health Hazards : 4 <b>Flammability:</b> 1 <b>Physical hazards:</b> 0	H302 Harmful if swallowed. H311 + H331 Toxic in contact with skin or if inhaled. H401 Toxic to aquatic life.
<b>EC classification (Classification according to Directive 67/548/EEC)</b>	
<b>T:</b> R 22-33	Harmful if swallowed. Danger of cumulative effects
<b>N :</b> R 51/53 Acute aquatic toxicity,	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. WGK 2 water endangering

**Hazard pictograms**



**Signal word**

Warning

**3 Composition / Information On Ingredients :**

<b>Chemical formula</b>	: C <sub>7</sub> H <sub>7</sub> NO <sub>2</sub>
<b>Common Name</b>	: m-nitrotoluene (MNT)
<b>Synonyms</b>	: m-nitrotoluene, 3-Nitrotoluene m-nitrophenylmethane, 3-methylnitrobenzene, 3-nitrotoluol, 1-methyl-3-nitrobenzene, m-nitrotoluol, MNT
<b>Molecular weight</b>	: 137.13 g/mol
<b>CAS No.</b>	: 99-08-1
<b>Index No.</b>	: -
<b>UN No.</b>	: 1664
<b>EINECS No.</b>	: 202-728-6

**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. Take victim immediately to hospital. 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.

## Deepak Nitrite Limited

### 5 Fire Fighting Measures:

#### **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.

#### **Further information**

Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

### 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.

#### **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 contact with skin and eyes. Avoid inhalation of vapour or mist. Normal measures for preventive fire protection.

#### **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 :

#### **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**

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

**9 Physical And Chemical Properties :**

Appearance	: Clear, liquid
Colour	: Yellow
Odour	: Aromatic
pH ( 1% Solution)	: No data available
Boiling Point/range	: 230 - 231 °C (446 - 448 °F) - lit.
Melting point	: 14 - 16 °C (57 - 61 °F) - lit.
Flash Point	: 102 °C (216 °F) - closed cup
Autoignition temperature	: 440 °C
Lower explosion limit	: 2.2 % (V)
Upper explosion limit	: No data available
Vapour Pressure	: 0.2 hPa (20 °C)
Density	: 1.157 g/cm <sup>3</sup> at 25 °C (77 °F)
Solubility water	: 0.419 g/l (20 °C)
Relative vapour density	: 4.73 - (Air = 1.0)

**10 Stability And Reactivity :**

**Storage stability:**

Stable under recommended storage conditions.

**Materials to avoid**

Oxidizing agents, Strong bases. Incompatible materials, reducing agents, strong bases, amines, alkalies.

**Condition to avoid**

Incompatible materials.

**Hazardous decomposition products**

Nitrogen oxides, carbon monoxide, carbon dioxide.

**11 Toxicological Information :**

<b>Acute toxicity</b>	: LD <sub>50</sub> Oral - rat - 1,072 mg/kg LC <sub>50</sub> Inhalation - rat - 693 mg/m <sup>3</sup> LD <sub>50</sub> Oral -330 mg/kg (mouse)
<b>RTECS#</b>	: XT2975000
<b>Category of danger</b>	: harmful, dangerous for the environment
<b>Storage class</b>	: 10 Combustible liquids not in Storage Class 3
<b>Target organs</b>	: Potentially fatal if inhaled, blood damage
<b>Potential health effects</b>	: Toxic by inhalation, in contact with skin and if swallowed Irritating to eyes.

## Deepak Nitrite Limited

### 12 Ecological Information :

Acute fish toxicity LC50 : LC<sub>50</sub> - Pimephales promelas (fathead minnow) - 30 mg/l - 96 h Species: Daphnia magna (Water flea)

Acute toxicity to aquatic invertebrates EC50 : EC<sub>50</sub> - Daphnia magna (Water flea) - 7.4 mg/l - 48 h  
The product is easily biodegradable.  
WGK 2 water endangering

### 13 Disposal Considerations :

#### Product

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

#### Packaging

Dispose of as unused product.

### 14 Transport Information :

**UN No. : 1664**

**Hazard Class : 6.1**

**Packing Group : II**

Declaration (railroad and road) ADR, RID  
UN 1664 NITROTOLUENES, LIQUID, 6.1, II

Declaration (transport by sea) IMDG-Code  
UN 1664 NITROTOLUENES, LIQUID, 6.1, II

Declaration (transport by air) IATA-DGR  
UN 1664 NITROTOLUENES, LIQUID, 6.1, II

### 15 Regulatory Information :

#### Safety Information according to GHS

#### Hazard Statement (s)

H302 Harmful if swallowed.  
H311 + H331 Toxic in contact with skin or if inhaled.  
H373: May cause damage to organs through prolonged or repeated exposure.  
H401 Toxic to aquatic life.

#### Precautionary Statement (s)

P261 Avoid breathing dust fume/ gas/ mist/vapours/spray.  
P280 Wear protective gloves/protective clothing.  
P311 Call a POISON CENTER or doctor/physician.  
P273: Avoid release to the environment.

#### Signal Word

Warning

**Hazard Pictogram(s):**



**RTECS#** : XT2975000

**Labeling according to EC directives**

**Hazard symbols** : T, N

**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.  
R36/37/38: Irritating to eyes, respiratory system and skin.

**Safety phrases** : S36/37: Wear suitable protective clothing and gloves.  
S45: In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).  
S61: Avoid release to the environment. Refer to special instructions safety data sheet.  
S37: Wear suitable gloves.  
S27: Take off immediately all contaminated clothing.  
S16: Keep away from sources of ignition - No smoking.

**OSHA Hazards**

Highly toxic by inhalation, Harmful by ingestion., Toxic by skin absorption

**DSL Status**

All components of this product are on the Canadian DSL list.

**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

**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.