

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 :

GHS classification (Classification according to Regulation (EC) No 1272/2008)	Hazard statement (s)
Health Hazards : 4 Flammability: 1 Physical hazards: 0	H302 Harmful if swallowed. H311 + H331 Toxic in contact with skin or if inhaled. H401 Toxic to aquatic life.
EC classification (Classification according to Directive 67/548/EEC)	
T: R 22-33	Harmful if swallowed. Danger of cumulative effects
N : 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 :

Chemical formula	: $C_7H_7NO_2$
Common Name	: m-nitrotoluene (MNT)
Synonyms	: m-nitrotoluene, 3-Nitrotoluene m-nitrophenylmethane, 3-methylnitrobenzene, 3-nitrotoluol, 1-methyl-3-nitrobenzene, m-nitrotoluol, MNT
Molecular weight	: 137.13 g/mol
CAS No.	: 99-08-1
Index No.	: -
UN No.	: 1664
EINECS No.	: 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.

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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 ³ 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 :

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

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12 Ecological Information :

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

Acute toxicity to aquatic invertebrates EC50 : EC₅₀ - 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.