

### SECTION-1: Identification of the substance / mixture and the company / undertaking

<b>Catalogue Number</b>	CS-O-39365
<b>Product Name</b>	1,2-dimethyl-3-nitrobenzene
<b>CAS No.</b>	83-41-0
<b>Category</b>	Impurity
<b>Synonyms</b>	1,2-dimethyl-3-nitrobenzene
<b>Brand</b>	Clearsynth Labs Ltd.
<b>Identified uses</b>	Laboratory Chemicals
<b>Uses advised against</b>	Not available
<b>Company</b>	Clearsynth Labs Ltd. Mumbai, India
<b>Emergency Phone #</b>	+91-22-245045900
<b>REACH No.</b>	Not available

### SECTION 2: Hazards identification

**Disclaimer:** This is sample MSDS. Please email [sales@clearsynth.com](mailto:sales@clearsynth.com) for more details.

#### 2.1 Classification of the substance or mixture-Regulation (EC) No 1272/2008:

Not available

#### 2.2 Label Elements

**Signal Word:** Warning

Not available

#### Hazard Statement(s)

Code	Statement
H411	Toxic to aquatic life with long lasting effects.

#### Precautionary Statement(s)

Code	Statement
P273	Not available
P391	Not available
P501	Dispose of contents/container in accordance with local/regional/national/international regulation

### SECTION 3: Composition / information on ingredients

#### 3.1 Substance

Component : 1,2-dimethyl-3-nitrobenzene

CAS Number : 83-41-0

Molecular Formula : C<sub>8</sub>H<sub>9</sub>NO<sub>2</sub>

Molecular Weight : 151.2

Parent Chemical : Mefenamic Acid

Synonyms : 1,2-dimethyl-3-nitrobenzene

Concentration : Not available

### SECTION 4: First aid measures

#### SECTION 4: First-aid measures

##### 4.1 Description of first aid measures

- General advice: Remove from exposure. Show this SDS to medical personnel. Seek medical attention if symptoms persist.
- Inhalation: Move person to fresh air. Keep at rest. If breathing is difficult, seek medical attention.
- Skin contact: Remove contaminated clothing and shoes. Wash skin with plenty of water and soap. Seek medical attention if irritation develops or persists.
- Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention.
- Ingestion: Rinse mouth. Do NOT induce vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious person. Seek medical attention.

##### 4.2 Most important symptoms and effects, both acute and delayed

- Not available.

##### 4.3 Indication of any immediate medical attention and special treatment needed

- Treat symptomatically. No data available.

### SECTION 5: Firefighting measures

#### SECTION 5: Fire-fighting measures

##### 5.1 Extinguishing media

- Suitable extinguishing media: Use extinguishing measures appropriate to local circumstances and the surrounding environment (e.g., water spray, alcohol-resistant foam, dry chemical, carbon dioxide).
- Unsuitable extinguishing media: Not available.

##### 5.2 Special hazards arising from the substance or mixture

- May form hazardous decomposition products under fire conditions.
- Hazardous combustion products: Not available.

##### 5.3 Advice for firefighters

- Wear self-contained breathing apparatus (SCBA) and full protective gear.
- Cool containers with water spray to prevent rupture.
- Prevent fire-fighting water from entering drains or waterways.

### SECTION 6: Accidental release measures

#### SECTION 6: Accidental release measures

##### 6.1 Personal precautions, protective equipment and emergency procedures

- Avoid breathing dust/vapors/mist.
- Avoid contact with skin and eyes.
- Use appropriate personal protective equipment (see Section 8).
- Ensure adequate ventilation.

##### 6.2 Environmental precautions

- Prevent further leakage or spillage if safe to do so.
- Avoid release to the environment. Prevent entry into drains, surface water, or soil.

##### 6.3 Methods and material for containment and cleaning up

- Contain spill. Collect spilled material using non-sparking tools.
- Absorb with inert absorbent material and place in a suitable, closed container for disposal.
- Clean contaminated area with suitable cleaning agent. Dispose of waste in accordance with local regulations.

##### 6.4 Reference to other sections

- See Section 8 for personal protective equipment and Section 13 for disposal considerations.

### SECTION-7: Handling and storage

#### SECTION 7: Handling and storage

##### 7.1 Precautions for safe handling

- Handle in accordance with good industrial hygiene and safety practice.
- Avoid breathing dust/vapors/mist.
- Avoid contact with skin, eyes, and clothing.
- Use only with adequate ventilation.
- Keep away from sources of ignition.

##### 7.2 Conditions for safe storage, including any incompatibilities

- Store in a tightly closed container.
- Store in a cool, dry, well-ventilated place.
- Protect from moisture and direct sunlight.
- Incompatible materials: Not available.

##### 7.3 Specific end use(s)

- Laboratory/research use. Not available for other specific uses.

### SECTION 8: Exposure controls / personal protection

#### SECTION 8: Exposure controls/personal protection

##### 8.1 Control parameters

- Occupational exposure limits: Not available.
- Biological limit values: Not available.

##### 8.2 Exposure controls

- Appropriate engineering controls: Use local exhaust ventilation or general ventilation to minimize exposure.
- Personal protective equipment (PPE):
- Eye/face protection: Safety glasses with side shields or chemical splash goggles.
- Skin protection: Protective gloves (material not available). Wear protective clothing.
- Respiratory protection: If ventilation is inadequate, use appropriate respiratory protection (type not available).
- Hygiene measures: Wash hands thoroughly after handling. Remove contaminated clothing and wash before reuse.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Test	Result
Appearance	No data available
IR spectrum	No data available
pH	No data available
Solubility	No data available

Property	Value
a) Physical State	No data available
b) Color	No data available
c) Odor	No data available
d) pH	No data available
e) Vapour Pressure	No data available
f) Viscosity	No data available
g) Initial Boiling Point and boiling range	No data available
h) Melting Point / Freezing Point	No data available
i) Auto Ignition Temperature	No data available
j) Flash Point	No data available
k) Explosion Limit, Lower	No data available
l) Explosion Limit, Upper	No data available
m) Decomposition Temperature	No data available
n) Loss on Drying	No data available
o) Relative Density	No data available

Property	Value
p) Solubility (in DMSO)	No data available
q) Oxidizing Properties	No data available

### SECTION 10: Stability and reactivity

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##### 10.1 Reactivity

- No data available.

##### 10.2 Chemical stability

- Stable under recommended storage conditions.

##### 10.3 Possibility of hazardous reactions

- No data available.

##### 10.4 Conditions to avoid

- Heat, sparks, open flames, and other ignition sources.

- Incompatible conditions: Not available.

##### 10.5 Incompatible materials

- Not available.

##### 10.6 Hazardous decomposition products

- Not available.

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

- Acute toxicity: /LABORATORY ANIMALS: Acute Exposure/ Exposure of rabbit skin to 3-nitro-1,2-dimethylbenzene leads to slight, transient inflammatory irritation. Similarly, the substance causes transient inflammatory effects on the conjunctiva and iris of the eye. The product has been evaluated as not irritating in accordance with EC classification criteria in both studies. /GENOTOXICITY/ 3-Nitro-1,2-dimethylbenzene is not mutagenic in the Salmonella/microsome test. In the chromosome aberration test in V79 cells in vitro, 3-nitro-1,2-dimethylbenzene induces structural chromosome aberrations.

- Skin corrosion/irritation: No data available.

- Serious eye damage/eye irritation: No data available.

- Respiratory or skin sensitization: No data available.

- Germ cell mutagenicity: /GENOTOXICITY/ 3-Nitro-1,2-dimethylbenzene is not mutagenic in the Salmonella/microsome test. In the chromosome aberration test in V79 cells in vitro, 3-nitro-1,2-dimethylbenzene induces structural chromosome aberrations. /GENOTOXICITY/ Ames assay (preincubation) in Salmonella typhimurium TA97, TA98, TA100 and TA1535 without and with S-9 (rat liver, 10%, Aroclor 1254 induced ): positive.

- Carcinogenicity: No data available.

- Reproductive toxicity: No data available.

- STOT-single exposure: No data available.

- STOT-repeated exposure: /LABORATORY ANIMALS: Subchronic or Prechronic Exposure/ On repeated administration in the diet of 0, 200, 1000 or 5000 ppm for 5 days or of 0, 100, 500 or 2500 ppm for 28 days (equivalent to 0, 20, 100 and 500 mg/kg body weight/day and 0, 10, 50 and 250 mg/kg body weight/day,

respectively), reduced weight gain and reduced feed intake were found in both sexes at 5000 ppm in the range-finding study and at 2500 ppm in the main study. After administration for 5 days, the relative liver weight was dose-dependently increased in the males in all treated groups. No effects were found at post-mortem. Functional disturbances of the liver were found in males and females after administration of 2500 ppm for 4 weeks (decrease in total protein and effects on alanine aminotransferase activity and the albumin-globulin quotient). However, no effects on liver weight or histologically detectable damage to the liver were seen. The no toxic effect level derived from the 28-day study is 500 ppm (equivalent to ca. 50 mg/kg body weight/day).

- Aspiration hazard: No data available.

Likely routes of exposure

- No data available.

Symptoms related to the physical, chemical and toxicological characteristics

- /LABORATORY ANIMALS: Acute Exposure/ Exposure of rabbit skin to 3-nitro-1,2-dimethylbenzene leads to slight, transient inflammatory irritation. Similarly, the substance causes transient inflammatory effects on the conjunctiva and iris of the eye. The product has been evaluated as not irritating in accordance with EC classification criteria in both studies.

## SECTION 12: Ecological information

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12.1 Toxicity

- No data available.

12.2 Persistence and degradability

- No data available.

12.3 Bioaccumulative potential

- No data available.

12.4 Mobility in soil

- No data available.

12.5 Results of PBT and vPvB assessment

- Not available.

12.6 Endocrine disrupting properties

- Not available.

12.7 Other adverse effects

- No data available.

## SECTION 13: Disposal considerations

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Dispose of contents/container in accordance with local/regional/national/international regulations.

- Do not discharge to drains or the environment.

- Recommended disposal method: Not available.

- Contaminated packaging: Dispose of as unused product or according to local regulations.

### SECTION 14: Transport information

#### SECTION 14: Transport information

- UN number: Not available.
- UN proper shipping name: Not available.
- Transport hazard class(es): Not available.
- Packing group: Not available.
- Environmental hazards: Not available.
- Special precautions for user: Not available.
- Transport in bulk according to IMO instruments: Not available.

### SECTION 15: Regulatory information

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##### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- Regulatory listings (e.g., GHS/CLP, TSCA, REACH, DSL, EINECS/ELINCS, etc.): Not available.

##### 15.2 Chemical safety assessment

- No data available.

### SECTION 16: Other information

#### SECTION 16: Other information

- Product name: 1,2-dimethyl-3-nitrobenzene
- Catalog no.: CS-O-39365
- CAS no.: 83-41-0
- Category: Impurity
- Molecular weight: 151.2
- Supplier: Clearsynth Labs Ltd., Mumbai, India
- Emergency phone: +91-22-245045900

#### Disclaimer

- The information provided is believed to be accurate based on available data; however, no warranty is expressed or implied. Users are responsible for determining suitability for their particular application and for compliance with applicable laws and regulations.
- Revision date: Not available.

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