DIMETHYL PHTHALATE
CAS No 131-11-3

MATERIAL SAFETY DATA SHEET
SDS/MSDS

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

1.1 Product identifiers
Product name: Dimethyl Phthalate
CAS-No.: 131-11-3

1.2 Relevant identified uses of the substance or mixture and uses advised against
Identified uses: Laboratory chemicals, Industrial & for professional use only.

1.3 Details of the supplier of the safety data sheet
Company: Central Drug House (P) Ltd
7/28 Varadaan House
Ansari Road Daryaganj
New Delhi -110002
INDIA

Telephone: +91 11 49404040
Email: care@cdhfinechemical.com

1.4 Emergency telephone number
Emergency Phone #: +91 11 49404040 (9:00am - 6:00 pm) [Office hours]

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2 Label elements
Labelling according Regulation (EC) No 1272/2008

Pictogram

Signal word: Danger
Hazard statement(s)
H300 + H310 + H330 Fatal if swallowed, in contact with skin or if inhaled
H373 May cause damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.
Precautionary statement(s)
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/
P264 Wash hands thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing. P284 Wear respiratory protection.
2.3 Other hazards
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. Rapidly absorbed through skin.

SECTION 3: Composition/information on ingredients

3.1 Substances
Formula : C_{10}H_{10}O_{4}
Molecular weight : 194.19 g/mol
CAS-No. : 131-11-3
EC-No. : 205-011-6

Hazardous ingredients according to Regulation (EC) No 1272/2008

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
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<tbody>
<tr>
<td>Dimethyl phthalate</td>
<td></td>
<td>&lt;= 100 %</td>
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SECTION 4: First aid measures

4.1 Description of 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
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides
5.3 **Advice for firefighters**
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 **Further information**
No data available

**SECTION 6: Accidental release measures**

6.1 **Personal precautions, protective equipment and emergency procedures**
Avoid breathing vapours, mist or gas. Ensure adequate ventilation.
For personal protection see section 8.

6.2 **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.

6.3 **Methods and materials for containment and cleaning up**
Keep in suitable, closed containers for disposal.

6.4 **Reference to other sections**
For disposal see section 13.

**SECTION 7: Handling and storage**

7.1 **Precautions for safe handling**
For precautions see section 2.2.

7.2 **Conditions for safe storage, including any incompatibilities**
Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
Storage class (TRGS 510): Combustible liquids

7.3 **Specific end use(s)**
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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

8.1 **Control parameters**

8.2 **Exposure controls**

**Appropriate engineering controls**
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Personal protective equipment**

**Eye/face protection**
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin 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.

**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.

**Respiratory protection**
Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure**
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

  a) Appearance  Form: liquid, clear
       Colour: colourless
  b) Odour      No data available
  c) Odour Threshold  No data available
  d) pH         No data available
  e) Melting point/freezing point  Melting point/range: 2 °C - lit.
  f) Initial boiling point and boiling range  282 °C - lit.
  g) Flash point  146.0 °C - closed cup
  h) Evaporation rate  No data available
  i) Flammability (solid, gas)  No data available
  j) Upper/lower flammability  Upper explosion limit: 8.03 % (V)
     or explosive limits  Lower explosion limit: 0.94 % (V)
  k) Vapour pressure  0.0015 mmHg at 20.0 °C
       1.0 mmHg at 100.0 °C
  l) Vapour density  No data available
  m) Relative density  1.19 g/cm3 at 25 °C
  n) Water solubility  slightly soluble
  o) Partition coefficient: n-octanol/water  log Pow: 1.47
  p) Auto-ignition temperature  490.0 °C
  q) Decomposition temperature  No data available
  r) Viscosity  No data available
  s) Explosive properties  No data available
  t) Oxidizing properties  No data available

9.2 Other safety information
No data available

SECTION 10: Stability and reactivity

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
No data available
10.5 Incompatible materials
Oxidizing agents, acids

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides
Other decomposition products - No data available
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 8,200 mg/kg(Dimethyl phthalate)
LD50 Dermal - Rabbit - > 12,000 mg/kg(Dimethyl phthalate)

Skin corrosion/irritation
Skin - Rabbit(Dimethyl phthalate) Result: No skin irritation - 24 h (Draize Test)

Serious eye damage/eye irritation
Eyes - Rabbit(Dimethyl phthalate) Result: No eye irritation - 72 h (OECD Test Guideline 405)

Respiratory or skin sensitisation
No data available(Dimethyl phthalate)

Germ cell mutagenicity
Ames test(Dimethyl phthalate) S. typhimurium
Result: negative
(Dimethyl phthalate) Rat - male
Result: negative

Carcinogenicity
This product is or contains a component that is not classifiable as to its classification.(Dimethyl phthalate)
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.

Reproductive toxicity
Specific target organ toxicity - single exposure
No data available(Dimethyl phthalate)

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available(Dimethyl phthalate)

Additional Information
RTECS: Not available
burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, Central nervous system depression, Gastrointestinal disturbance, Kidney injury may occur., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.(Dimethyl phthalate)
Nerves. - (Dimethyl phthalate)
SECTION 12: Ecological information

12.1 Toxicity
Toxicity to fish; LC50 - Pimephales promelas (fathead minnow) - 39 mg/l - 144 h
Toxicity to fish; flow-through test LC50 - Pimephales promelas (fathead minnow) - 39 mg/l - 96 h(Dimethyl phthalate)
LC50 - Pimephales promelas (fathead minnow) - 39 mg/l - 144 h(Dimethyl phthalate)

Toxicity to daphnia and other aquatic invertebrates LC50 - Daphnia magna (Water flea) - > 52 mg/l - 48 h
Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 46.00 mg/l - 48 h(Dimethyl phthalate)

Toxicity to algae; EC50 - Desmodesmus subspicatus (Scenedesmus subspicatus) - 204 mg/l - 72 h
Toxicity to algae; static test EC50 - Desmodesmus subspicatus (Scenedesmus subspicatus) - 204 mg/l - 72 h(Dimethyl phthalate)

12.2 Persistence and degradability

12.3 Bioaccumulative potential
Bioaccumulation; Lepomis macrochirus (Bluegill sunfish) - 21 d

12.4 Mobility in soil
No data available(Dimethyl phthalate)

12.5 Results of PBT and vPvB assessment
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects
Harmful to aquatic life.
Bioconcentration factor (BCF): 57 (OECD Test Guideline 305)

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Product
Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging
Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number
ADR/RID: - IMDG: - IATA: -

14.2 UN proper shipping name
ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods
14.3 Transport hazard class(es)  
ADR/RID: -     IMDG: -     IATA: -

14.4 Packaging group  
ADR/RID: -     IMDG: -     IATA: -

14.5 Environmental hazards  
ADR/RID: no     IMDG Marine pollutant: no     IATA: no

14.6 Special precautions for user  
No data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture  
This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment  
For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.