### 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**

<table>
<thead>
<tr>
<th>Product name</th>
<th>Dimethyl Phthalate</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS-No.</td>
<td>131-11-3</td>
</tr>
</tbody>
</table>

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**

<table>
<thead>
<tr>
<th>Company</th>
<th>Central Drug House (P) Ltd</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>7/28 Vardaan House</td>
</tr>
<tr>
<td></td>
<td>New Delhi -110002</td>
</tr>
<tr>
<td></td>
<td>INDIA</td>
</tr>
<tr>
<td>Telephone</td>
<td>+91 11 49404040</td>
</tr>
<tr>
<td>Email</td>
<td><a href="mailto:care@cdhfinechemical.com">care@cdhfinechemical.com</a></td>
</tr>
</tbody>
</table>

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**

- Not a hazardous substance or mixture.

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**

<table>
<thead>
<tr>
<th>Formula</th>
<th>C_{10}H_{10}O_{4}</th>
</tr>
</thead>
<tbody>
<tr>
<td>Molecular weight</td>
<td>194.19 g/mol</td>
</tr>
<tr>
<td>CAS-No.</td>
<td>131-11-3</td>
</tr>
<tr>
<td>EC-No.</td>
<td>205-011-6</td>
</tr>
</tbody>
</table>
### Hazardous ingredients according to Regulation (EC) No 1272/2008

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimethyl phthalate</td>
<td></td>
<td>&lt;= 100 %</td>
</tr>
<tr>
<td>CAS-No.</td>
<td>131-11-3</td>
<td></td>
</tr>
<tr>
<td>EC-No.</td>
<td>205-011-6</td>
<td></td>
</tr>
</tbody>
</table>

### 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 or explosive limits
   Upper explosion limit: 8.03 % (V)
   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
   Bioconcentration factor (BCF): 57
   (OECD Test Guideline 305)

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.

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.