MATERIAL SAFETY DATA SHEET

1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifiers

Product Name: Methyl benzoate
CAS NO.: 93-58-3

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

COMPANY: DR. J. PHARMACHEM (INDIA)
722/AB/15 ‘NIRMAL’, LAXMI PARK COLONY, NAVI PETH, PUNE- 411 030. INDIA
Telephone: 020-24530071
Fax: 020-24530110

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]
Acute toxicity, Oral (Category 4)

Classification according to EU Directives 67/548/EEC or 1999/45/EC
Harmful if swallowed.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008 [CLP]

Pictogram: !
Signal word: Warning
Hazard statement(s):
H302 Harmful if swallowed.
Precautionary statement(s): none
Supplemental Hazard Statements: none

According to European Directive 67/548/EEC as amended

R-phrase(s):
R22 Harmful if swallowed.
### COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

<table>
<thead>
<tr>
<th>Synonyms</th>
<th>Benzoic acid methyl ester; Methyl benzenecarboxylate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formula</td>
<td>C8H8O2</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>136.15 g/mol</td>
</tr>
</tbody>
</table>

#### Component

| Methyl benzoate           | Min 98%                                               |
| Other unknown impurities  | Up to 2%                                               |

### 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**
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**
Do NOT induce vomiting. 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

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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

No data available

### FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

**Suitable extinguishing media**
For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

**Special hazards arising from the substance or mixture**
Carbon oxides

**Advice for firefighters**
Wear self contained breathing apparatus for firefighting if necessary.

**Further information**
Use water spray to cool unopened containers.

### ACCIDENTAL RELEASE MEASURES

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

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate...
ventilation. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

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
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

7.2 Conditions for safe storage, including any incompatibilities
Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end uses
No data available

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters
Components with workplace 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
Face shield and safety glasses. 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.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection
Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace

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).

**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.

### 9 PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

- **a)** Appearance: Form: clear, liquid  
  Colour: colourless
- **b)** Odour: No data available
- **c)** Odour Threshold: No data available
- **d)** pH: No data available
- **e)** Melting range/freezing range: -12 °C - lit.
- **f)** Initial boiling point and boiling range: 198 - 199 °C - lit.
- **g)** Flash point: 83 °C - closed cup
- **h)** Enthalpy of Vaporization: No data available
- **i)** Index of Refraction: No data available
- **j)** Molar Refractivity: No data available
- **k)** Vapour density: 4.7 - (Air = 1.0)
- **l)** Relative density: 1.088 g/cm3 at 20 °C
- **m)** Oxidizing properties: No data available
- **n)** Solubility: No data available
- **o)** Partition coefficient: noctanol/water: log Pow: 2.1
- **p)** Polarizability: No data available
- **q)** Decomposition temperature: No data available
- **r)** Molar Volume: No data available
- **s)** Surface Tension: No data available

#### 9.2 Other safety information

- IUPAC Name: Methyl benzoate
- Molecular Formula: C8H8O2
- Molecular Weight: 136.15 g/mol
- SMILES: COC(=O)C1=CC=CC=C1
- InChI: InChI=1/C8H8O2/c1-10-8(9)7-5-3-2-4-6-7/h2-6H,1H3
- EINECS: 202-259-7

### 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

- Heat, flames and sparks.

#### 10.5 Incompatible materials

- Strong oxidizing agents, Strong bases

#### 10.6 Hazardous decomposition products

- Other decomposition products - no data available

### 11 TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

- **Acute toxicity**: LD50 Oral - rat - 1.177 mg/kg  
  Remarks: Behavioral: Change in motor activity
<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS No.</td>
<td>93-58-3</td>
</tr>
<tr>
<td>(specific assay). Diarrhoea Skin and Appendages:</td>
<td>Other: Hair.</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Skin - rabbit - Result: Mild skin irritation - 24 h</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Eyes - rabbit - Result: Mild eye irritation - 24 h</td>
</tr>
<tr>
<td>Respiratory or skin sensitization</td>
<td>no data available</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>no data available</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>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.</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>no data available</td>
</tr>
<tr>
<td>Specific target organ toxicity - single exposure</td>
<td>no data available</td>
</tr>
<tr>
<td>Specific target organ toxicity - repeated exposure</td>
<td>no data available</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>no data available</td>
</tr>
<tr>
<td>Signs and Symptoms of Exposure</td>
<td>To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.</td>
</tr>
<tr>
<td>Additional Information</td>
<td>RTECS DH3850000</td>
</tr>
<tr>
<td>12 ECOLOGICAL INFORMATION</td>
<td></td>
</tr>
<tr>
<td>12.1 Toxicity</td>
<td></td>
</tr>
<tr>
<td>Toxicity to fish</td>
<td>LC50 - Danio rerio (zebra fish) - 23 mg/l - 96 h</td>
</tr>
<tr>
<td>Toxicity to daphnia and other aquatic invertebrates</td>
<td>EC50 - Daphnia magna (Water flea) – 62.6 mg/l - 24 h</td>
</tr>
<tr>
<td>12.2 Persistence and degradability</td>
<td>Biodegradability</td>
</tr>
<tr>
<td>12.3 Bioaccumulative potential</td>
<td>no data available</td>
</tr>
<tr>
<td>12.4 Mobility in soil</td>
<td>no data available</td>
</tr>
<tr>
<td>12.5 Results of PBT and vPvB assessment</td>
<td>PBT/vPvB assessment not available as chemical safety assessment not required/not conducted</td>
</tr>
<tr>
<td>12.6 Other adverse effects</td>
<td>Harmful to aquatic life.</td>
</tr>
<tr>
<td>13 DISPOSAL CONSIDERATIONS</td>
<td></td>
</tr>
<tr>
<td>13.1 Waste treatment methods</td>
<td></td>
</tr>
<tr>
<td>Product</td>
<td></td>
</tr>
<tr>
<td>Contaminated packaging</td>
<td></td>
</tr>
<tr>
<td>Disposable of as unused product.</td>
<td></td>
</tr>
<tr>
<td>14 TRANSPORT INFORMATION</td>
<td></td>
</tr>
<tr>
<td>14.1 UN number</td>
<td></td>
</tr>
<tr>
<td>ADR/RID</td>
<td>IMDG</td>
</tr>
<tr>
<td>-</td>
<td>IATA</td>
</tr>
</tbody>
</table>
### 14.2 UN proper shipping name

<table>
<thead>
<tr>
<th>ADR/RID</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not dangerous goods</td>
<td>Not dangerous goods</td>
<td>Not dangerous goods</td>
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</tbody>
</table>

### 14.3 Transport hazard class(es)

<table>
<thead>
<tr>
<th>ADR/RID</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>-</td>
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</tbody>
</table>

### 14.4 Packaging group

<table>
<thead>
<tr>
<th>ADR/RID</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>-</td>
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</tbody>
</table>

### 14.5 Environmental hazards

<table>
<thead>
<tr>
<th>ADR/RID</th>
<th>IMDG Marine pollutant</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>no</td>
<td>no</td>
<td>no</td>
</tr>
</tbody>
</table>

### 14.6 Special precautions for user

no data available

### 15 REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

no data available

#### 15.2 Chemical Safety Assessment

no data available

### 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. Dr J Pharmachem (India) and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.jpharmachem.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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