### 1-NAPHTHALDEHYDE
**CAS No 66-77-3**

**MATERIAL SAFETY DATA SHEET**
**SDS/MSDS**

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

1. **Product identifiers**  
   - **Product name:** 1-Naphthaldehyde  
   - **CAS-No.:** 66-77-3

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

3. **Details of the supplier of the safety data sheet**  
   - **Company:** Central Drug House (P) Ltd  
     7/28 Varadaan House  
     New Delhi -110002  
     INDIA  
   - **Telephone:** +91 11 49404040  
   - **Email:** care@cdhfinechemical.com

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

#### SECTION 2: Hazards identification

1. **Classification of the substance or mixture**  
   **Classification according to Regulation (EC) No 1272/2008**  
   - **Acute toxicity, Oral (Category 4), H302**

   For the full text of the H-Statements mentioned in this Section, see Section 16.

2. **Label elements**  
   **Labelling according Regulation (EC) No 1272/2008**

   - **Pictogram:**  
   - **Signal word:** Warning

   - **Hazard statement(s):** H302  
   - **Precautionary statement(s):** none

   - **Supplemental Hazard Statements:** none
2.3 Other hazards
Lachrymator.

SECTION 3: Composition/information on ingredients

3.1 Substances
Synonyms : \( \alpha \)-Naphthaldehyde

<table>
<thead>
<tr>
<th>Formula</th>
<th>( \text{C}_{10}\text{H}_2\text{CHO} )</th>
</tr>
</thead>
<tbody>
<tr>
<td>Molecular weight</td>
<td>156.18 g/mol</td>
</tr>
<tr>
<td>CAS-No.</td>
<td>66-77-3</td>
</tr>
<tr>
<td>EC-No.</td>
<td>200-633-4</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>1-Naphthaldehyde</td>
<td>Acute Tox. 4; H302</td>
<td>( \leq 100 % )</td>
</tr>
</tbody>
</table>

CAS-No. 66-77-3
EC-No. 200-633-4

For the full text of the H-Statements mentioned in this Section, see Section 16.

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
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. For personal protection see section 8.

6.2 Environmental precautions
Do not let product enter drains.

6.3 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.

6.4 Reference to other sections
For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Normal measures for preventive fire protection. 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. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Storage class (TRGS 510): 10: 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
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.

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
Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance  Form: clear, liquid
    Colour: dark yellow
b) Odour  No data available
c) Odour Threshold  No data available
d) pH  7 at < 1 g/l at 20 °C
e) Melting point/freezing point  Melting point/range: 1 - 2 °C - lit.
f) Initial boiling point and boiling range  160 - 161 °C at 20 hPa - lit.
g) Flash point  110 °C - closed cup
h) Evaporation rate  No data available
i) Flammability (solid, gas)  No data available
j) Upper/lower flammability or explosive limits  No data available
k) Vapour pressure  No data available
l) Vapour density  5,39 - (Air = 1.0)
m) Relative density  1,15 g/cm3 at 25 °C
n) Water solubility  No data available
o) Partition coefficient: n-octanol/water  No data available
p) Auto-ignition temperature  No data available
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
Relative vapour density  5,39 - (Air = 1.0)

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
Strong oxidizing agents, Strong bases

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 - 667 mg/kg
LD50 Dermal - Guinea pig - > 22.900 mg/kg
Remarks: Prolonged skin contact may cause skin irritation and/or dermatitis.

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity
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
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: QJ0190000

Cough, Shortness of breath, Headache, Nausea, Vomiting. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: Ecological information

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 (1-Naphthaldehyde)
12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number
ADR/RID: - IMDG: - IATA: 3334

14.2 UN proper shipping name
ADR/RID: Not dangerous goods
IMDG: Not dangerous goods
IATA: Aviation regulated liquid, n.o.s. (1-Naphthaldehyde)

14.3 Transport hazard class(es)
ADR/RID: - IMDG: - IATA: 9

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

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: Otheinformation

Full text of H-Statements referred to under sections 2 and 3.
H302 Harmful if swallowed.

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.