# 1-OCTANOL
CAS NO 111-87-5

## 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>1-Octanol</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS-No.</td>
<td>111-87-5</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

**Classification according to Regulation (EC) No 1272/2008**

- Eye irritation (Category 2), H319
- Chronic aquatic toxicity (Category 3), H412

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

### 2.2 Label elements

**Labelling according Regulation (EC) No 1272/2008**

**Pictogram**

| Signal word | Warning |

**Hazard statement(s)**

- H319: Causes serious eye irritation.
- H412: Harmful to aquatic life with long lasting effects.

**Precautionary statement(s)**

- P273: Avoid release to the environment.
- P280: Wear eye protection/ face protection.
P305 + P351 + P338  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313  If eye irritation persists: Get medical advice/attention.
Supplemental Hazard  none

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.

SECTION 3: Composition/information on ingredients

3.1 Substances
Synonyms  : Octyl alcohol
           Capryl alcohol
           Alcohol C8

Formula  : C₈H₁₈O
Molecular weight  : 130.23 g/mol
CAS-No.  : 111-87-5
EC-No.  : 203-917-6

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>Octa 1-1-ol</td>
<td>Eye Irrit. 2; Aquatic Chronic 3; &lt;= 100 %</td>
<td></td>
</tr>
<tr>
<td>CAS-No.</td>
<td>111-87-5</td>
<td></td>
</tr>
<tr>
<td>EC-No.</td>
<td>203-917-6</td>
<td>H319, H412</td>
</tr>
</tbody>
</table>

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
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
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**
Use water spray to cool unopened containers.

**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. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. 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**
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.

**SECTION 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.
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**
Safety glasses with side-shields conforming to EN166 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**
Where risk assessment shows air-purifying respirators are appropriate use (US) or type ABEK (EN 14387) respirator cartridges as a backup to enginee 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.

**SECTION 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 point/freezing point**
  - Melting point/range: -15 °C - lit.

- **f) Initial boiling point and boiling range**
  - 196 °C - lit.

- **g) Flash point**
  - 80 °C - closed cup

- **h) Evaporation rate**
  - No data available

- **i) Flammability (solid, gas)**
  - No data available

- **j) Upper/lower flammability or explosive limits**
  - Lower explosion limit: 0.8 % (V)

- **k) Vapour pressure**
  - 0.14 mmHg at 25 °C

- **l) Vapour density**
  - 4.5 - (Air = 1.0)

- **m) Relative density**
  - 0.827 g/cm3 at 25 °C

- **n) Water solubility**
  - 107 g/l at 23 °C - partly soluble

- **o) Partition coefficient: n-octanol/water**
  - log Pow: 2.80 - 3.15

- **p) Auto-ignition temperature**
  - ca.294 °C
  - at 1,013 hPa

- **q) Decomposition temperature**
  - No data available

- **r) Viscosity**
  - 5.58 mm2/s at 40 °C - ASTM D 445 -

- **s) Explosive properties**
  - No data available

- **t) Oxidizing properties**
  - No data available

9.2 Other safety information

- Relative vapour density 4.5 - (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
Heat, flames and sparks.

10.5 Incompatible materials
Acids, Acid chlorides, Oxidizing agents acids, Acid chlorides, Oxidizing agents

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 - male and female - > 5,000 mg/kg(Octan-1-ol)
OECD Test Guideline 401
LD50 Dermal - Rabbit - > 2,000 - < 4,000 mg/kg(Octan-1-ol)

Skin corrosion/irritation
Skin - Rabbit(Octan-1-ol)
Result: Mild skin irritation - 4 h
OECD Test Guideline 404

Serious eye damage/eye irritation
Eyes - Rabbit(Octan-1-ol)
Result: Irritating to eyes.
OECD Test Guideline 405

Respiratory or skin sensitisation
No data available(Octan-1-ol)

Germ cell mutagenicity
No data available(Octan-1-ol)
reverse mutation assay(Octan-1-ol) Salmonella typhimurium
Result: negative

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(Octan-1-ol)

Specific target organ toxicity - single exposure
No data available(Octan-1-ol)

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available(Octan-1-ol)

Additional Information
RTECS: Not available

Central nervous system depression, Nausea, Headache, Vomiting, narcosis, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.(Octan-1-ol)
SECTION 12: Ecological information

12.1 Toxicity
Toxicity to fish  LC50 - Pimephales promelas (fathead minnow) - 13.3 mg/l - 96 h(Octan-1-ol) (OECD Test Guideline 203)
Toxicity to algae  static test EC50 - Desmodesmus subspicatus (green algae) - 6.5 mg/l - 48 h(Octan-1-ol) (OECD Test Guideline 201)

12.2 Persistence and degradability
Biodegradability  aerobic - Exposure time 28 d(Octan-1-ol)
Result: 92 % - Readily biodegradable (OECD Test Guideline 310)

Ratio BOD/ThBOD  32 - 62 %(Octan-1-ol)

12.3 Bioaccumulative potential
Does not bioaccumulate.

12.4 Mobility in soil
No data available(Octan-1-ol)

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 with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Product
This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. 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

Full text of H-Statements referred to under sections 2 and 3.
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.

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.