# Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

| | |
|---|---|
| Trade name/designation | 1-Octanol |
| Product No. | 52-7599 |
| Substance name | 1-Octanol |
| CAS No. | 111-87-5 |
| INDEX no. | |
| REACH registration No. | Not yet communicated down the supply chain. |
| other means of identification | |

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

| | |
|---|---|
| Relevant identified uses | for laboratory use and chemical production. |

### 1.3 Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

| | | |
|---|---|---|
| Address | | Rapid Electronics,<br>Severalls Lane,<br>Colchester,<br>Essex,<br>CO4 5JS, United Kingdom |
| Telephone | : | +44 (0) 1206 751166 |
| Fax | : | +44 (0) 1206 751188 |
| E-mail address | : | sales@rapidelec.co.uk |

### 1.4 Emergency telephone

| | |
|---|---|
| Telephone | +44 (0) 1206 751166 |

## 2. Hazards identification

### 2.1 Classification of the substance or mixture

#### 2.1.1 Classification according to Regulation (EC) No. 1272/2008 [CLP]

| hazard classes and hazard categories | Hazard Statements | classification procedure | remark |
|---|---|---|---|
| Eye irritation, category 2 | H319 | | |

2.1.2 Classification according to Directive 67/548/EEC or 1999/45/EC

| Hazard symbols: | R-phrases |
|---|---|
| Xi | R36 |

2.2 Label elements

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

Signal word Warning

Hazard Statements

| | |
|---|---|
| H319 | Causes serious eye irritation. |

Precautionary statements

| | |
|---|---|
| P280 | Wear protective gloves/protective clothing/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. |

2.2.2 Labelling (67/548/EEC or 1999/45/EC)

Hazard symbols:

Xi

R-phrases

| | |
|---|---|
| R36 | Irritating to eyes. |

S-phrases

| | |
|---|---|
| S26 | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |

2.3 Other hazards

SVHC No

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3. Composition/ Information on ingredients

| | |
|---|---|
| Molecular formula | $H_3C(CH_2)_6CH_2OH$ |
| Molecular weight (g/mol) | 130.23 g/mol |
| CAS No. | 111-87-5 |
| EC No | 203-917-6 |
| INDEX no. | |

## 4. First-aid measures

### 4.1 General information

When in doubt or if symptoms are observed, get medical advice. If unconscious place in recovery position and seek medical advice. Never give anything by mouth to an unconscious person or a person with cramps. Change contaminated, saturated clothing. Do not leave affected person unattended.

### 4.2 After inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. In case of respiratory tract irritation, consult a physician.

### 4.3 In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately. In case of skin reactions, consult a physician.

### 4.4 After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye. Remove contact lenses, if present and easy to do. Continue rinsing.

### 4.5 After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do not induce vomiting. Give nothing to eat or drink.

### 4.6 Self-protection of the first aider

First aider: Pay attention to self-protection!

### 4.7 Information to physician:

| | |
|---|---|
| Symptoms | No data available |
| Hazards | No data available |
| Treatment | No data available |

## 5. Firefighting measures

### 5.1 Suitable extinguishing media

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

### 5.2 Extinguishing media which must not be used for safety reasons:

no restriction

### 5.3 Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon dioxide (CO2) Carbon monoxide Sulphur oxides

5.4 Advice for firefighters

DO NOT fight fire when fire reaches explosives. In case of fire: Wear self-contained breathing apparatus.

5.5 Additional information

Do not allow run-off from fire-fighting to enter drains or water courses. Do not inhale explosion and combustion gases. Use caution when applying carbon dioxide in confined spaces. Carbon dioxide can displace oxygen. Use water spray jet to protect personnel and to cool endangered containers.

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6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Special danger of slipping by leaking/spilling product. In case of major fire and large quantities: Remove persons to safety. Wear a self-contained breathing apparatus and chemical protective clothing.

6.2 Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

Spilled product must never be returned to the original container for recycling. Clean contaminated objects and areas thoroughly observing environmental regulations. Suitable material for diluting or neutralizing: Lime Soda Sand.

6.4 Additional information

Clear spills immediately.

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7. Handling and storage

7.1 Precautions for safe handling

Avoid: Inhalation. Avoid contact with skin and eyes. Use extractor hood (laboratory). If handled uncovered, arrangements with local exhaust ventilation have to be used. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means. Handle under (Gas): Nitrogen

7.2 Conditions for safe storage, including any incompatibilities

| | |
|---|---|
| storage temperature | 15-25°C |

Keep container tightly closed in a cool, well-ventilated place. Keep/Store away from combustible materials.

7.3 Specific end use(s)

No data available

## 8. Exposure controls / Personal protection

### 8.1 Control parameters

Does not contain substances above concentration limits fixing an occupational exposure limit.

### 8.2 Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. If handled uncovered, arrangements with local exhaust ventilation have to be used.

### 8.3 Personal protective equipment

Wear suitable protective clothing. When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn.

#### 8.3.1 Eye / face protection

Eye glasses with side protection DIN-/EN-Norms: DIN EN 166

#### 8.3.2 Skin protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. Recommended glove articles DIN-/EN-Norms: DIN EN 374 In the case of wanting to use the gloves again, clean them before taking off and air them well.

| | |
|---|---|
| By short-term hand contact | |
| Suitable material: | NBR (Nitrile rubber) |
| Thickness of the glove material | 0,12 mm |
| Breakthrough time (maximum wearing time) | 120-240 min |
| Recommended glove articles | VWR 112-0998 |

| | |
|---|---|
| By long-term hand contact | |
| Suitable material: | NBR (Nitrile rubber) |
| Thickness of the glove material | 0,38 mm |
| Breakthrough time (maximum wearing time) | >480 min |
| Recommended glove articles | VWR 112-3717 / 112-1381 |

#### 8.3.3 Protective clothing

Wash hands before breaks and after work. Avoid contact with skin and eyes. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.

#### 8.3.4 Respiratory protection

Respiratory protection necessary at: aerosol or mist formation

| | |
|---|---|
| Suitable respiratory protection apparatus: | Full-/half-/quarter-face masks (DIN EN 136/140) |
| Recommendation | VWR 111-0206 |
| Suitable material: | A2B2E2K2P3 |

8.4 Additional information

Wash hands before breaks and after work. Avoid contact with skin and eyes. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.

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9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|---|---|
| (a) Appearance | |
| Physical state | liquid |
| Colour | colourless |
| (b) Odour | No data available |
| (c) Odour threshold | No data available |

**Safety relevant basic data**

| | |
|---|---|
| (d) pH | No data available |
| (e) Melting point/freezing point | -16°C |
| (f) Initial boiling point and boiling range | 195°C (1013 hPa) |
| (g) Flash point | 81°C |
| (h) Evaporation rate | No data available |
| (i) Flammability (solid, gas) | not applicable |
| (j) Upper/lower flammability or explosive limits | |
| Lower explosion limit (Vol-%) | 0.8 |
| Upper explosion limit (Vol-%) | 6.4 |
| (k) Vapour pressure | 0,31 hPa (20°C) |
| (l) Vapour density | 4.48 (20°C) |
| (m) Relative density | 0.8246 g/cm³ (20°C) |
| (n) Solubility(ies) | |
| Water solubility (g/l) | 0,3 g/l (20°C) |
| at °C: | 20 |
| Soluble (g/l) in | No data available |
| (o) Partition coefficient: n-octanol/water | 3 (20°C) |
| (p) Auto-ignition temperature | 270°C |
| (q) Decomposition temperature | No data available |
| (r) Viscosity | |
| Kinematic viscosity | No data available |
| Dynamic viscosity | 9 mPa*s (20°C) |
| (s) Explosive properties | not applicable |
| (t) Oxidising properties | not applicable |

9.2 Other information

| | |
|---|---|
| Bulk density | No data available |
| refraction index | 1.43 (589 nm, 20°C) |
| dissociation constant | No data available |
| Surface tension | No data available |
| Henry constant | No data available |

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10. Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

No data available

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

No data available

10.7 Additional information

No data available

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11. Toxicological information

11.1 Information on toxicological effects

**Acute effects**

| | |
|---|---|
| Acute oral toxicity | |
| Effective dose | LD50: Min. 5000 mg/kg |
| species: | rat |
| Exposure time | |
| remark | |
| source | OECD 401 |
| | |
| Acute dermal toxicity | |
| Effective dose | LD50: Min. 2000 mg/kg |
| species: | rabbit |
| Exposure time | |
| remark | |
| source | OECD 402 |
| | |
| Acute inhalation toxicity | |
| Effective dose | LCLo: 5.6 mg/l |

| | |
|---|---|
| species: | rat |
| Exposure time | 4h |
| remark | |
| source | RTECS |

**Irritant and corrosive effects**

Primary irritation to the skin
Exposure time
species:
Result

Irritation to eyes
Exposure time
species:
Result

Irritation to respiratory tract
Exposure time
species:
Result

**Sensitisation**

| | |
|---|---|
| In case of skin contact | not sensitising. |
| After inhalation | not sensitising. |

**Specific target organ toxicity (single exposure)**

not relevant

**Specific target organ toxicity (repeated exposure)**

not relevant

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

**Carcinogenicity**

No indication of human carcinogenicity.

**Germ cell mutagenicity/Genotoxicity**

No indications of human germ cell mutagenicity exist.

**Reproductive toxicity**

No indications of human reproductive toxicity exist.

**Aspiration hazard**

not relevant

11.2 Other adverse effects

No data available

11.3 Additional information

No data available

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12. Ecological information

12.1 Ecotoxicity

**Acute (short-term) fish toxicity**

| | |
|---|---|
| LC50: | No data available |
| EC50 | |
| species: | |
| Exposure time | |

**Chronic (long-term) fish toxicity**

| | |
|---|---|
| LC50: | No data available |
| EC50 | |
| species: | |
| Exposure time | |

**Acute (short-term) daphnia toxicity**

| | |
|---|---|
| LC50: | No data available |
| EC50 | |
| species: | |
| Exposure time | |

**Chronic (long-term) daphnia toxicity**

| | |
|---|---|
| LC50: | No data available |
| EC50 | |
| species: | |
| Exposure time | |

**Acute (short-term) algae toxicity**

| | |
|---|---|
| LC50: | No data available |
| EC50 | |
| species: | |
| Exposure time | |

**Chronic (long-term) algae toxicity**

| | |
|---|---|
| LC50: | No data available |
| EC50 | |
| species: | |
| Exposure time | |

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

| | |
|---|---|
| (o) Partition coefficient: n-octanol/water | 3 (20°C) |

12.4 Mobility in soil

No data available

12.5 Results of PBT assessment

No data available

12.6 Other adverse effects

No data available

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13. Disposal considerations

13.1 Waste treatment methods

**Appropriate disposal / Product**

Dispose according to legislation. Consult the appropriate local waste disposal expert about waste disposal. Send to a hazardous waste incinerator facility under observation of official regulations.

| | |
|---|---|
| Waste code product | 16 05 08 (discarded organic chemicals consisting of or containing dangerous substances) |

**Appropriate disposal / Package**

13.2 Additional information

No data available

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14. Transport information

14.1 Land transport (ADR/RID)

No dangerous good in sense of these transport regulations.

14.2 Sea transport (IMDG)

No dangerous good in sense of these transport regulations.

14.3 Air transport (ICAO-TI / IATA-DGR)

No dangerous good in sense of these transport regulations.

14.4 Additional information

No data available

## 15. Regulatory information

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

Water hazard class (WGK) 1

### 15.2 Chemical Safety Assessment

No data available

## 16. Other information

### 16.1 Relevant R-, H- and EUH-phrases (Number and full text)

| | |
|---|---|
| R36 | Irritating to eyes. |

| | |
|---|---|
| H319 | Causes serious eye irritation. |

### 16.2 Additional information

Indication of changes

general update

*The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.*