

# SAFETY DATA SHEET

## 1-HEXANOL

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

|                                |   |
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| <b>1.1 Product identifier:</b> |   |
| <b>CAS Number:</b>             | 111-27-3.   |
| <b>EC number:</b>              | 203-852-3   |
| <b>1.2 SYNONYMS:</b>           | <ul style="list-style-type: none"><li>• Hexan-1-ol</li><li>• 1-Hydroxyhexane</li><li>• Caproic alcohol</li><li>• n-Hexyl alcohol</li><li>• Hexyl alcohol</li><li>• 1-hexyl alcohol</li><li>• 1-hexanol (IUPAC name)</li></ul> |

### SECTION 2: Hazards identification:

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| <b>2.1 Classification of the substance or mixture:</b> | Classification according to Regulation (EC) No 1272/2008 The substance is not classified according to the CLP regulation.   |
| <b>2.2 Label elements:</b>                             | Labelling according to Regulation (EC) No 1272/2008<br>Flammable liquids (Category 3)<br>Acute toxicity, oral (Category 4)<br>Acute toxicity, dermal (Category 4)<br>Eye irritation, (Category 2) |
| <b>Hazard Pictograms:</b>                              |   |
| <b>Signal Word:</b>                                    | Warning   |
| <b>Hazard statements:</b>                              | <b>H226:</b> Flammable liquid and vapour.<br><b>H302 + H312:</b> Harmful if swallowed or in contact with skin.<br><b>H319:</b> Causes serious eye irritation.                                     |
| <b>Precautionary Statements:</b>                       | <b>P210:</b> Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.   |

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|  | <p><b>P264:</b> Wash skin thoroughly after handling.</p> <p><b>P280:</b> Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.</p> <p><b>P303 + P361 + P353:</b> IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.</p> <p><b>P337 + P313:</b> If eye irritation persists: Get medical advice/ attention.</p> <p><b>P370 + P378:</b> In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.</p> |
| <b>2.3 Other hazards:</b>                      |   |
| <b>Inhalation:</b>                             | may cause respiratory irritation, dizziness, headache, and in severe cases, central nervous system depression.  |
| <b>Ingestion:</b>                              | can cause nausea, vomiting, abdominal pain, and dizziness, and may lead to central nervous system depression in severe cases.   |
| <b>Skin Contact:</b>                           | may cause irritation, redness, and dryness, and prolonged exposure can lead to dermatitis.  |
| <b>Eye contact:</b>                            | can cause irritation, redness, and watering, and may lead to pain or discomfort.  |
| <b>Chronic Exposure:</b>                       | may cause damage to the liver and kidneys, as well as nervous system effects, including headaches, dizziness, and fatigue. Prolonged skin contact could also lead to dermatitis.  |
| <b>Aggravation of pre-existing conditions:</b> | may aggravate pre-existing conditions such as respiratory disorders, liver or kidney disease,   |

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|  | and skin conditions like eczema or dermatitis. |
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### SECTION 3: Composition/information on ingredients

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| <b>3.1 Chemical characterisation:</b> | Substances                      |
| <b>CAS No:</b>                        | Description: 111-27-3 1-HEXANOL |
| <b>Identification number(s):</b>      | EC number: 203-852-3            |

### SECTION 4: First aid measures

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| <b>4.1 Description of first aid measures</b>                            |   |
| <b>General information:</b>   |   |
| <b>After inhalation:</b>  | If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.   |
| <b>After skin contact:</b>  | Remove contaminated clothing. Wash with soap and water. Consult a physician.  |
| <b>After eye contact:</b>   | Immediately flush eyes with plenty of water for at least 15 minutes. consult a physician.   |
| <b>After swallowing:</b>  | Rinse mouth with water. Immediately after ingestion. Never give anything by mouth to an unconscious person. Do not induce vomiting. Consult a physician.  |
| <b>4.2 Most important symptoms and effects, both acute and delayed:</b> | important symptoms and effects include acute respiratory irritation, dizziness, and headache, with potential delayed effects such as liver and kidney damage, as well as nervous system depression with prolonged exposure. |

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| <b>4.3 Indication of any immediate medical attention and special treatment needed:</b> | Treat symptomatically. |
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## SECTION 5: Firefighting measures

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| <b>5.1 Extinguishing media:</b>                                   | Carbon dioxide. Water spray.<br>Alcohol-resistant foam.   |
| <b>5.2 Special hazards arising from the substance or mixture:</b> | Flammable. Can release carbon dioxide and carbon monoxide on decomposition.   |
| <b>5.3 Advice for firefighters:</b>                               | Wear fully protective suit, safety glasses and respiratory device. Cool tanks/drums with water spray/remove them into safety. |
| <b>5.4 further information:</b>                                   | no data available   |

## SECTION 6: Accidental release measures

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| <b>6.1 Personal precautions, protective equipment and emergency procedures:</b> | Use personal protective equipment.<br>Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Avoid dust accumulation. Seek medical attention. |
| <b>6.2 Environmental precautions:</b>   | Do not enter this chemical into drains.   |
| <b>6.3 Methods and material for containment and cleaning up:</b>                | Take up spill into absorbent material, e.g.: sand, earth, vermiculite, powdered limestone. Scoop absorbed substance into closing containers. Spill must not return in its original container. Clean contaminated surfaces with  |

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|  | an excess of water. Wash clothing and equipment after handling. |
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## SECTION 7: Handling and storage

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| <b>7.1 Precautions for safe handling:</b>                                | For use in are with adequate ventilation.<br>Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material<br>Do not use in confined spaces.<br>Electrostatic discharge protection.<br>Minimize dust generation and accumulation.<br>Avoid ingestion and inhalation. |
| <b>7.2 Conditions for safe storage, including any incompatibilities:</b> | Store in original containers.<br>Keep containers securely sealed<br>Store in a cool, dry, well-ventilated area.<br>Store away from incompatible materials and foodstuff containers.<br>Protect containers against physical damage and check regularly for leaks. Store in a dry and dark area.                              |
| <b>Requirements to be met by storerooms and receptacles:</b>             | Keep container tightly closed in a dry and well-ventilated place.<br>Containers which are opened must be carefully resealed and kept upright to prevent leakage.  |
| <b>7.3 Specific end uses:</b>  | no data available   |

## SECTION 8: Exposure controls/personal protection

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| <b>8.1 Control parameters</b>                                       |   |
| <b>Additional information about design of technical facilities:</b> | A system of local and general exhaust is recommended. |
| <b>8.2 Exposure controls</b>  |   |

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| <b>Appropriate engineering controls</b>          | Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.   |
| <b>Personal protective equipment:</b>            | Dust respirator, protective masks, wearing anti chemical gloves, rubber gloves, etc.   |
| <b>General protective and hygienic measures:</b> | Eyes, body and hand protection, maintain indoor air unobstructed. Wear protective equipment.   |
|  | <b>Respiratory protection:</b> Required.   |
| <b>Protection of hands:</b>                      | 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. Wash and dry hands. |
|  | <b>Eye protection:</b> Required  |
| <b>Protection of Body:</b>                       | Complete suit protecting against chemicals, Flame retardant antistatic protective clothing.  |

## SECTION 9: Physical and chemical properties

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| <b>9.1 Information on basic physical and chemical properties</b> |                |
| <b>General Information</b>                                       |                |
| <b>Appearance: Form:</b>   | liquid         |
| <b>Colour:</b>   | Colourless     |
| <b>Odour:</b>  | Floral,mild    |
| <b>pH-value:</b>   | Not applicable |
| <b>Melting point/Melting range:</b>                              | -49°C          |
| <b>Boiling point/Boiling range:</b>                              | 155°C          |
| <b>Flammability (solid, gaseous):</b>                            | Flammable      |
| <b>Ignition temperature:</b>                                     | 330°C          |

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| <b>Decomposition temperature:</b>                            | No data available       |
| <b>Self-igniting:</b>  | No                      |
| <b>Flash point:</b>  | 54°C                    |
| <b>Danger of explosion:</b>                                  | Not applicable          |
| <b>Explosion limits: Lower:</b>                              | 0.9%                    |
| <b>Explosion limits: Upper:</b>                              | 7.0%                    |
| <b>Vapour pressure:</b>                                      | 0.46 mmHg at 20 °C      |
| <b>Density at 20 °C:</b>                                     | 0.814 g/cm <sup>3</sup> |
| <b>Relative density:</b>                                     | 0.814                   |
| <b>Vapour density:</b>                                       | 4.3                     |
| <b>Evaporation rate:</b>                                     | 0.13                    |
| <b>Solubility in / Miscibility with-<br/>water at 20 °C:</b> | slightly soluble        |
| <b>Partition coefficient:(n-<br/>octanol/water)</b>          | 2.76                    |
| <b>Viscosity:</b>  | 3.15 cP at 20°C         |

## SECTION 10: Stability and reactivity

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| <b>10.1 Reactivity</b>                         | No reaction under storage conditions.   |
| <b>10.2 Chemical stability</b>                 | This chemical is stable under storage conditions.                                 |
| <b>10.3 Possibility of hazardous reactions</b> | Hazardous decomposition products formed under fire conditions.                    |
| <b>10.4 Conditions to avoid</b>                | Direct heating, dirt, chemical contamination, sunlight, UV or ionising radiation. |
| <b>10.5 Incompatible materials</b>             | Strong acids and oxidizing agents;  |
| <b>10.6 Hazardous decomposition products</b>   | No data available   |

## SECTION 11: Toxicological information

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| <b>11.1 Information on toxicological effects</b>           |  |
| <b>Acute Toxicity:</b>                                     | <b>LD50</b> (Oral, Rat): 2000 mg/kg<br><b>LD50</b> (Dermal, Rabbit): 1100 mg/kg<br><b>LC50</b> (Inhalation Rat): 21 mg/l (1hr) |
| <b>Skin corrosion/Irritation:</b>                          | Causes slight irritation.  |
| <b>Serious eye damage/irritation:</b>                      | Causes serious eye irritation.   |
| <b>Respiratory damage/irritation:</b>                      | No data available  |
| <b>Ingestion:</b>  | No data available  |
| <b>Germ cell mutagenicity:</b>                             | No data available  |
| <b>Carcinogenicity:</b>                                    | No data available  |
| <b>Reproductive toxicity:</b>                              | No data available  |
| <b>Specific target organ toxicity - single exposure:</b>   | No data available  |
| <b>Specific target organ toxicity - repeated exposure:</b> | No data available  |
| <b>Aspiration hazard:</b>                                  | No data available  |
| <b>Signs and Symptoms of Exposure:</b>                     | Refer section 2.3  |
| <b>11.2 Additional toxicological information</b>           |  |
| <b>Biodegradability:</b>                                   | Moderately biodegradable   |

## SECTION 12: Ecological information

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| <b>12.1 Toxicity Aquatic toxicity:</b>     | LC50(fish): 100 mg/l (96 hr)<br>EC50(daphnia): 100 mg/l (24 hr)<br>ErC50(algae): 100 mg/l |
| <b>12.2 Persistence and degradability:</b> | moderately biodegradable and persistent   |
| <b>12.3 Bioaccumulative potential:</b>     | Not bioaccumulative   |
| <b>12.4 Mobility in soil:</b>              | High mobility   |
| <b>12.5 Other adverse effects:</b>         | No data available   |

## SECTION 13: Disposal considerations

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| <b>13.1 Waste treatment methods</b>        |   |
| <b>Uncleaned packaging Recommendation:</b> | dispose of in accordance with local hazardous waste regulations |
| <b>Recommended cleansing agents:</b>       | Water, Isopropyl alcohol, acetone, Mild detergents.             |

## SECTION 14: Transport information

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|---|---------------------|
| <b>14.1 UN-Number · ADR, ADN, IMDG, IATA:</b>                   | 2282                |
| <b>14.2 UN proper shipping name · ADR, ADN, IMDG, IATA:</b>     | HEXANOLS            |
| <b>14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA :</b> | 3                   |
| <b>14.4 Packing group · ADR, IMDG, IATA:</b>                    | 3                   |
| <b>14.5 Environmental hazards:</b>                              | Not applicable      |
| <b>14.6 Special precautions for user:</b>                       | Handle responsibly. |

## SECTION 15: Regulatory information

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|---|---|
| <b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Directive 2012/18/EU</b> | Directive 2012/18/EU, under that this substance is not classified in listed substance |
| <b>Named dangerous substances:</b>  | This substance is not listed in the annex 1 to the directive.                         |
| <b>15.2 Chemical safety assessment:</b>   | Chemical assessment has not been carried out  |

## SECTION 16: Other information

The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information.

However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users

Multichem Specialities Pvt. Ltd.  
1215, Dalamal Tower,  
Nariman Point, Mumbai 400021, India  
T: +91 2243432121  
E: [multichem@multichemindia.com](mailto:multichem@multichemindia.com)  
[www.multichemindia.com](http://www.multichemindia.com)



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