1. Identification

GHS Product Identifier: OCTAN-1-OL

Company Name: CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)

Address: 38 - 50 Bedford Street GILLMAN
SA 5013 Australia

Telephone/Fax Number: Tel: (08) 8440-2000
Fax: (08) 8440-2001

Recommended use of the chemical and restrictions on use: Perfumery, cosmetics, organic synthesis, solvent manufacture of high-boiling esters, antifoaming agent, flavouring agent, laboratory reagent.

Other Names: 1-Octanol, n-Octanol, n-Octyl alcohol, Capryl alcohol, Heptyl carbinol

Other Information: EMERGENCY CONTACT NUMBER: +61 08 8440 2000
Business hours: 8:30am to 5:00pm, Monday to Friday.

Chem-Supply Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon Chem-Supply Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of Chem-Supply Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

2. Hazard Identification

GHS classification of the substance/mixture: Eye Damage/Irritation: Category 2A

Signal Word(s): WARNING

Hazard Statement(s): H319 Causes serious eye irritation.

Pictogram(s): Exclamation mark

Precautionary statement – Prevention: P264 Wash thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement – Response: 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.

3. Composition/information on ingredients

Chemical Characterization: Liquid

Information on Composition: Derived by reduction of caprylic acid.

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS</th>
<th>Proportion</th>
<th>Hazard Symbol</th>
<th>Risk Phrase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Octan-1-ol</td>
<td>111-87-5</td>
<td>100 %</td>
<td>Xn</td>
<td>R22</td>
</tr>
</tbody>
</table>

4. First-aid measures

Inhalation: If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not
**Inhalation**

breathing. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear. Rinse mouth thoroughly with water immediately. Give plenty of water to drink. Do not induce vomiting. Keep airways free. Seek medical advice.

**Skin**

Wash affected areas with copious quantities of water. Remove contaminated clothing and wash before re-use. If irritation occurs seek medical advice.

**Eye contact**

Irrigate with copious quantity of water for 15 minutes. Seek medical assistance if symptoms persist.

**First Aid Facilities**

Maintain eyewash fountain and safety shower in work area.

**Advice to Doctor**

Treat symptomatically based on judgement of doctor and individual reactions of the patient.

**For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor at once.**

**5. Fire-fighting measures**

**Hazard from Combustion Products**

May liberate toxic fumes fire include of carbon dioxide and carbon monoxide.

**Specific Methods**

Small fire: Use dry chemical, CO₂, water spray or foam. Large fire: Use water spray, fog or foam. If safe to do so, move undamaged containers from the fire area. Cool containers with flooding quantities of water until well after the fire is out.

**Specific hazards arising from the chemical**

May burn but do not ignite readily. Runoff may pollute waterways. Fire may produce irritating, poisonous and/or corrosive fumes. Containers may explode when heated. Take measures to prevent electrostatic charging. Vapours heavier than air. Formation of explosive mixtures possible with air. Keep away from sources of ignition.

**Precautions in connection with Fire**

Wear SCBA and structural firefighter's uniform.

**6. Accidental release measures**

**Spills & Disposal**

Eliminate all ignition sources (no smoking, flares, sparks or flame) within at least 15m. Do NOT touch or walk through this product. Stop leak if safe to do so. Prevent entry into waterways, drains, confined areas. Prevent dust cloud. Use clean non-sparking tools to collect material and place it into loosely-covered plastic containers for later disposal. SEEK EXPERT ADVICE ON HANDLING AND DISPOSAL.

**Personal Precautions**

Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms.

**Personal Protection**

Wear protective clothing specified for normal operations (see Section 8)

**Clean-up Methods - Small Spillages**

Absorb or contain liquid with sand, earth or spill control material. Shovel up using non sparking tools and place in a labelled, sealable container for subsequent safe disposal. Put leaking containers in a labelled drum or overdrum.

**7. Handling and storage**

**Precautions for Safe Handling**

Do not breathe vapour. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure.

**Conditions for safe storage, including any incompatibilities**

Store away from oxidizing agents. Store away from sources of heat or ignition. Store away from acids. Store at room temperature (15 - 25 °C). Keep dry and protect from direct sunlight. Keep container tightly closed and in a well-ventilated place.

**Unsuitable Materials**

Various plastics, rubber.

**8. Exposure controls/personal protection**

**Other Exposure Information**

A time weighted average (TWA) concentration for an 8 hour day, and 5 day week has not been established by Safe Work Australia for this product. There is a blanket limit of 10 mg/m³ for dusts when limits have not otherwise been established.

**Appropriate engineering controls**

In industrial situations maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods.

**Respiratory Protection**

Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or
planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

**Eye Protection**
The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate.

**Hand Protection**
Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336. Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance. Recommendation: NR latex, nitrile and neoprene.

**Personal Protective Equipment**
Final choice of personal protective equipment will depend on individual circumstances and/or according to risk assessments undertaken.

**Footwear**
Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.

**Body Protection**
Flame retardant protective clothing. Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

**Hygiene Measures**
Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

### 9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Form</strong></td>
<td>Liquid</td>
</tr>
<tr>
<td><strong>Appearance</strong></td>
<td>Viscous colourless liquid.</td>
</tr>
<tr>
<td><strong>Odour</strong></td>
<td>Penetrating aromatic odour; characteristic.</td>
</tr>
<tr>
<td><strong>Melting Point</strong></td>
<td>-16 °C</td>
</tr>
<tr>
<td><strong>Boiling Point</strong></td>
<td>195 °C</td>
</tr>
<tr>
<td><strong>Solubility in Water</strong></td>
<td>Immiscible.</td>
</tr>
<tr>
<td><strong>Solubility in Organic Solvents</strong></td>
<td>Miscible with alcohol, chloroform and mineral oil. Immiscible with glycerol.</td>
</tr>
<tr>
<td><strong>Specific Gravity</strong></td>
<td>0.82 (20 °C)</td>
</tr>
<tr>
<td><strong>Vapour Density (Air=1)</strong></td>
<td>4.5</td>
</tr>
<tr>
<td><strong>Flash Point</strong></td>
<td>80 °C (closed cup); 90 °C (open cup)</td>
</tr>
<tr>
<td><strong>Flammability</strong></td>
<td>Combustible.</td>
</tr>
<tr>
<td><strong>Auto-Ignition Temperature</strong></td>
<td>270 °C</td>
</tr>
<tr>
<td><strong>Flammable Limits - Lower</strong></td>
<td>0.8 vol%</td>
</tr>
<tr>
<td><strong>Molecular Weight</strong></td>
<td>130.23</td>
</tr>
<tr>
<td><strong>Other Information</strong></td>
<td>Refractive index: 1.430 (@ 20 °C)</td>
</tr>
</tbody>
</table>

### 10. Stability and reactivity

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Chemical Stability</strong></td>
<td>Stable under normal use conditions.</td>
</tr>
<tr>
<td><strong>Conditions to Avoid</strong></td>
<td>Heat, flames, ignition sources and incompatibles.</td>
</tr>
<tr>
<td><strong>Incompatible Materials</strong></td>
<td>Strong oxidisers, acids and acid chlorides and acid anhydrides. Unsuitable working materials: various plastics, and rubber.</td>
</tr>
<tr>
<td><strong>Hazardous Decomposition</strong></td>
<td>May liberate toxic fumes fire include of carbon dioxide and carbon monoxide.</td>
</tr>
<tr>
<td><strong>Possibility of hazardous reactions</strong></td>
<td>Risk of explosion with perchloric acid and metallic perchlorates.</td>
</tr>
<tr>
<td><strong>Hazardous Polymerization</strong></td>
<td>Will not occur.</td>
</tr>
</tbody>
</table>

### 11. Toxicological Information

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Acute Toxicity - Oral</strong></td>
<td>LD50 (rat): &gt;3200 mg/kg</td>
</tr>
<tr>
<td><strong>Ingestion</strong></td>
<td>May be harmful if swallowed. Risk of aspiration. Passage to lungs may cause chemical pneumonitis. May cause irritation of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal</td>
</tr>
</tbody>
</table>
Safety Data Sheet

Product Name: OCTAN-1-OL

1. Identification

Classification: Classified as hazardous

Inhalation: Ingestion causes nausea and vomiting. After absorption of large quantities: CNS disorders (shock, narcosis). Drowsiness, excitation, spasms, dizziness, euphoria, in certain circumstances narcosis. May be harmful if inhaled. Inhalation of vapours irritates the respiratory tract and mucous membranes. Symptoms may include coughing, dyspnoea, headache, dizziness, unconsciousness and coma.

Skin: May cause allergic response. May be harmful by skin absorption. Irritating to the skin.

Eye: Causes serious irritation to the eyes with redness and pain. May cause eye burns.

Carcinogenicity: No evidence of carcinogenic properties.

Health Hazard: The following applies to aliphatic alcohols in general: effect when product is not handled and used properly; mucosal irritations, narcosis.

Mutagenicity: No evidence of mutagenic properties.

12. Ecological information

Persistence and degradability: Biological degradability: >70%/30d. Readily biodegradable.

Environmental Fate: Behaviour in environmental compartments:

Bioaccumulative Potential: No appreciable bioaccumulation is to be expected (log P(ow) 1-3).

Short Summary of Assessment of Environmental Impact: No ecological problems are to be expected when the product is handled and used with due care and attention.

Acute Toxicity - Algae: IC50 (Desmodesmus subspicatus): 6.5 - 14.0 mg/l/48h

13. Disposal considerations

Disposal Considerations: Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations.

Waste Disposal: Dispose of according to relevant local, state and federal government regulations.

14. Transport information

Transport Information: Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

15. Regulatory information

Regulatory Information: Listed in the Australian Inventory of Chemical Substances (AICS).

Poisons Schedule: Not Scheduled

16. Other Information

Literature References:
- 'Standard for the Uniform Scheduling of Medicines and Poisons No. 6', Commonwealth of Australia, February 2015.
- Safe Work Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)]'.
- Safe Work Australia, 'Hazardous Substances Information System, 2005'.
- Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances (2011)'.

Contact Person/Point of Contact:
- Paul McCarthy Ph. (08) 8440 2000

Disclaimer Statement:
All information provided in this data sheet or by our technical representatives is compiled from the best knowledge available to us. However, since data, safety standards and government regulations are ever-changing, we reserve the right to modify this data sheet at any time.
Safety Data Sheet

InfoSafe No™ 1CH4Q Issue Date: July 2015 RE-ISSUED by CHEMSUPP

Product Name: OCTAN-1-OL

Classified as hazardous

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Empirical Formula & Structural Formula

C8 H17 OH

...End Of MSDS...

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