1. Identification of the Product and Company

Product Name: CHLORHEXIDINE 2% IN ISOPROPYL ALCOHOL 70% TINTED RED

Product Code: CHL02501F, CHL02793F

Other Names: None allocated

Use: Hospital grade disinfectant.

Company Name & Contact Details

Distributed by Perrigo Australia
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Other Information

All reasonable care has been taken to ensure information and advice contained in this data sheet is accurate at time of printing. However, Orion accepts no liability for any loss or damages suffered as a consequence of reliance on the information contained herein.

Developed by Austin Health.

2. Hazards Identification

Hazard Classification

HAZARDOUS SUBSTANCE – DANGEROUS GOODS

Risk phrase(s)

R11 – Highly flammable
R20/22 – Harmful by inhalation and if swallowed;
R36/38 – Irritating to eyes and skin;
R66 – Repeated exposure may cause skin dryness and cracking

Safety phrase(s)

S7/9 – Keep container tightly closed & in a well ventilated place;
S16 – Keep away from sources of ignition – No smoking; S23 – Do not breathe vapour; S26 – In case of contact with eyes, rinse immediately with plenty of water and seek medical attention; S29 – Do not empty into drains;
S33 – Take precautionary measures against static discharges; S45 – In case of accident or if you feel unwell seek medical advice immediately (show the label wherever possible).
Avoid contact with mouth. If skin irritation occurs, discontinue use immediately.

3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Chemical Entity</th>
<th>CAS No:</th>
<th>Proportion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl Alcohol (Isopropanol)</td>
<td>67-63-0</td>
<td>70% v/v</td>
</tr>
<tr>
<td>Chlorhexidine Gluconate</td>
<td>18472-51-0</td>
<td>2% w/v</td>
</tr>
<tr>
<td>Colour</td>
<td>-</td>
<td>&lt; 10% w/v</td>
</tr>
<tr>
<td>Water, Purified</td>
<td>7732-18-5</td>
<td>to 100%</td>
</tr>
</tbody>
</table>
4. First Aid Measures

Inhalation: Remove patient to fresh air and seek medical advice if necessary. If breathing should stop, apply artificial respiration immediately.

Ingestion: Give plenty of water to drink. Seek medical attention or contact Poisons Information (Australia 13 11 26). Do not attempt to induce vomiting or give anything by mouth to an unconscious person.

Skin: Wash with water. Remove contaminated clothing. If irritation occurs or contact has been prolonged, seek medical advice. Launder clothing before re-use.

Eye: Flush the eyes with gently running water for at least 15 minutes (hold eyes open). Seek medical attention promptly if irritation persists.

Advice to Doctor: Treat symptomatically. If respiration is depressed, assisted respiration may be necessary.

5. Fire Fighting Measures

Specific Hazards: Highly flammable liquid. May form flammable mixtures with air. Burns with a colourless flame. Vapour is heavier than air and may travel along the ground. Distant ignition is possible. Run off to sewers and drains may cause explosions. Avoid all ignition sources.

Extinguishing Media: Water fog; alcohol stable foam (large fires); carbon dioxide, dry chemical powder (small fires).

Hazards from Combustion products: Burning can produce carbon monoxide and/or carbon dioxide.

Precautions & Equipment for Fire Fighters: On burning may emit toxic fumes. Remove containers from path of fire. Heating can cause expansion and rupture of containers. Keep containers cool with water spray. Fire fighters should wear self-contained breathing apparatus with full face mask if exposure to vapour or combustion products is likely. Vapour is heavier than air and may travel along the ground. Distant ignition is possible. Spills and leaks may be diluted and washed away with large volumes of water.

Hazchem Code: 2[Y]E

6. Accidental Release Measure

Spills and Disposal: Eliminate all possible sources of ignition – no smoking. Take precautionary measures against static discharges. Ventilate area well. Small spill: Dilute and flush to waste with water. Large spills: wear protective clothing to prevent skin & eye contact and inhalation of vapours. Contain & absorb using inert material such as sand, earth, vermiculite where appropriate. Collect and seal in properly labelled containers for disposal. Wash area down with excess water. At very low concentration, this product is biodegradable.

7. Handling and Storage

Safe Handling Practices: UN number 1219. Classified 3 PGII (Highly Flammable Liquid). Dangerous substance for the purpose of transport. Refer to appropriate State Regulations for storage and transport requirements.

Storage: Should not be stored or transported with flammable gases, explosives, spontaneously combustible substances, oxidising agents, halogens, aldehydes or foodstuffs. Store away from sources of heat or ignition. Store below 25°C. Store in a well-ventilated area and keep containers closed, which are not in use, to avoid evaporation.
8. Exposure Controls; Personal Protection

Exposure Limits:

There are no known exposure limits for this product but the following Threshold Limit Values (TLV) for Isopropyl Alcohol 100% should be used:

- Isopropyl Alcohol TLV 400ppm (983mg/m³) TWA, OSHA & ACGIH; 500ppm STEL, OSHA & ACGIH
- TWA Time-weighted average airborne concentration per 8 hour working day per 5 day working week over an entire working life.
- STEL Short term exposure limit - average airborne concentration per 15-minute period.

Engineering Controls: Local and or mechanical (general) exhaust, fitted with flame and explosion proof electrical fittings.

Personal Protection:

Avoid eye contact. If spillage or splashing is likely to occur during handling, wear splash resistant goggles or face shield (AS/NZS 1336). Use protective gloves. Wash hands thoroughly after use. Do not smoke or eat whilst handling.

Respiratory protection is not necessary under normal circumstances. Maintain concentration below recommended exposure limit and use adequate ventilation at all times. In high vapour concentration such (empty vessels, confined space), use air supplied hood, or if likely to exceed 500ppm, wear approved organic vapour respirator (AS/NZS 1715 and 1716)

9. Physical and Chemical Properties

Appearance and Odour: A clear, red solution that has a spiritous odour.

- pH: Not known
- Freezing/Melting Point: -89.5°C (Isopropyl Alcohol 100%)
- Melting Point: 100%
- Solubility: Miscible
- Vapour Pressure: 33mmHg at 20°C (Isopropyl Alcohol 100%)
- Specific Gravity or Density: 0.855 – 0.899 g/mL
- Boiling Point: 82.4°C (Isopropyl Alcohol 100%)
- Refractive Index: 1.360 – 1.380
- Flash point: 12°C (Isopropyl Alcohol 100%)
  tag closed cup

10. Chemical Stability and Reactivity Information

- Conditions Contributing to Instability: Product is stable.
- Incompatible Materials: Will react with strong oxidising agents.
- Conditions to Avoid: Heat, sparks, flame and build-up of static electricity.

11. Toxicological Information

- Inhalation: Irritating to respiratory tract and mucous membranes. Inhalation of the vapour may cause coughing and chest discomfort. High concentrations of vapour may cause headache and drowsiness or dizziness.
- Ingestion: Ingestion can lead to drowsiness, unconsciousness, abdominal discomfort, nausea, vomiting and diarrhoea.
Skin: Skin sensitivity to chlorhexidine has occasionally been reported. Repeated or prolonged skin contact may cause irritation to people with sensitive skin.

Eye: Vapour may irritate the eyes (at concentrations above 400ppm for 100% Isopropyl Alcohol), causing stinging and discomfort or pain. Liquid and mists may cause redness or pain.

Acute toxicity (for 100% Isopropyl Alcohol) LD50/oral/rat: 4396 mg/kg; LD50/dermal/rat: 12870 mg/kg; LC50/inhalation/rat: 72.6mg/l/4 h

Ecotoxicity: (for 100% Isopropyl Alcohol) Toxicity to fish (acute): LC50/fathead minnow: 1113 mg/l/96 h

12. Ecological Information

Mobility in soil: No data available.

Persistence and Degradability: Degree of elimination: >90%; Evaluation: readily biodegradable (100% Isopropyl Alcohol)

13. Disposal Considerations

Disposal Methods & Containers: Waste material may be incinerated under controlled conditions where permitted. Refer to local Waste Management Authority Regulations for other approved methods. Empty containers should be decontaminated by rinsing with water prior to disposal. Product must be contained and not disposed of in sewerage systems, drains or waterways. Advise flammable nature.

14. Transport Information

UN Number: 1219
UN Proper Shipping Name: Isopropanol (Isopropyl Alcohol)
DG Class & Subsidiary Risk: 3
Packing Group: II
Hazchem Code: 2[Y]E

15. Regulatory Information

Poisons Schedule: Schedule 5
Classification: Hazardous according to criteria of NOHSC. Dangerous Good according to criteria of the Australian Dangerous Goods Code.

16. Other Information


END OF MSDS