



MATERIAL SAFETY DATA SHEET
CHLORHEXIDINE 0.5% in ALCOHOL 70% TINTED RED

Page 1:4

1. Identification of the Product and Company

Product Name: CHLORHEXIDINE 0.5% in ALCOHOL 70% TINTED RED
Product Code: CHL01597F, CHL01712F
Other Names: Nil
Use: A hospital grade disinfectant.
Company Name & Contact Details
Drug Information Pharmacist
ORION Laboratories Pty Ltd ABN 56 009 293 136
25-29 Delawney Street, Balcatta, Western Australia 6021 AUSTRALIA
Telephone (all hours): +618 9441 7800
FREE PHONE: 1800 805 546 FREE FAX: 1800 004 110
EMAIL: customerservice@orion.net.au; WEBSITE: www.orion.net.au
ORION® is a registered trademark of Orion Laboratories Pty Ltd

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.

2. Hazards Identification

Hazard Classification HAZARDOUS SUBSTANCE. DANGEROUS GOODS.
Risk phrase(s) R11 – Highly Flammable
Safety phrase(s) S2 - Keep out of reach of children
S7 - Keep container tightly closed
S16 - Keep away from sources of ignition
S25 - Avoid contact with the eyes

3. Composition/Information on Ingredients

Chemical Entity	CAS No:	Proportion
Ethanol (alcohol)	64-17-5	> 60% v/v
Chlorhexidine Gluconate	18472-51-0	< 10% v/v
Colour	-	< 10% w/v
Water - purified	7732-18-5	> 30% v/v

4. First Aid Measures

Inhalation: Remove patient to fresh air. If respiratory irritation, dizziness, nausea or headache occurs, seek immediate medical attention. Apply artificial respiration if breathing stops.

Ingestion: If swallowed, give large amounts of water to drink. Do not induce vomiting. Seek medical attention

Skin: Remove contaminated clothing and wash skin with water. Launder contaminated clothing before use.

Eye: Hold eyelids open and flush eye with gently running water for at least 15 minutes. Seek medical attention promptly if irritation persists.

Advice to Doctor: Care should be taken during emesis to prevent pulmonary aspiration of the return flow. If respiration is depressed, assisted respiration may be necessary.

MATERIAL SAFETY DATA SHEET

CHLORHEXIDINE 0.5% in ALCOHOL 70% TINTED RED

Page 2:4

5. Fire Fighting Measures

Eliminate all possible sources of ignition. Ventilate area well. Contain using sand or earth and use an inert absorbent (sand, vermiculite) where appropriate. Collect and seal in properly labelled containers for disposal. Wash area down with excess water.

Extinguishing Media Water fog/spray, carbon dioxide, dry chemical powder or alcohol stable foam.

Hazards from Combustion products On burning may emit toxic fumes including carbon monoxide and carbon dioxide. Remove containers from path of fire. Heating can cause expansion and rupture of containers. Keep containers cool with water spray.

Precautions & Equipment for Fire Fighters Fire-fighters should wear self-contained breathing apparatus as exposure to vapour or combustion products is likely. Vapour is heavier than air and may travel along the ground. Distant ignition is possible.

Hazchem Code 2[Y]E

6. Accidental Release Measure

Eliminate all possible sources of ignition. Ventilate area well. Cleanup personnel to wear suitable respirator to minimise inhalation & protective clothing (eg gloves) to avoid skin contact.

7. Handling and Storage

Safe Handling Practices Alcoholic solutions are highly flammable.

- Avoid pooling on surfaces.
- Do not use near a naked flame or other ignition source.

Storage Should not be stored or transported with flammable gases, explosives, spontaneously combustible substances, oxidising agents or foodstuffs. Store away from sources of heat or ignition. Store in a well-ventilated area and keep containers closed when not in use to avoid evaporation.
Store below 25°C. Protect from light.

8. Exposure Controls; Personal Protection

Exposure Limits: There are no known Threshold Limit Values (TLV) for Chlorhexidine 0.5%, in Alcohol 70% Tinted Red but the following limits for 100% ethanol should serve as a guide:

Ethanol TLV	1000ppm; 1880mg/m ³	TWA: time weighted average airborne concentration over an eight-hour day, for a five-day working week over an entire working life.
-------------	-----------------------------------	--

Engineering Controls No respiratory protection is necessary under normal circumstances. Maintain concentration below recommended exposure limit and use with adequate ventilation at all times.

Personal Protection Avoid contact with eyes, ears, mucous membranes and broken skin. If spillage or splashing are likely to occur during handling, wear safety spectacles. Approved barrier creams may prove useful in preventing dermatitis when prolonged skin contact is unavoidable. Wash hands before smoking, eating, drinking or using the toilet. Do not smoke.

9. Physical and Chemical Properties

Appearance: A clear red solution free from visible impurities, with an alcoholic odour.

pH: 5.0 – 8.0 **Solubility in water:** Miscible

Vapour Pressure: 33mbar @ 20°C **Specific Gravity or Density:** 0.88g/mL

Vapour Density: 2.1 **Refractive Index @ 20°C:** 1.360 – 1.370

Boiling Point: 82.4°C **Flash point** 21°C (closed cup)

Freezing Point / Melting Point 89.5°C

MATERIAL SAFETY DATA SHEET
CHLORHEXIDINE 0.5% in ALCOHOL 70% TINTED RED

Page 3:4

10. Stability and Reactivity

Chemical Stability:	Stable. Store below 25°C
Hazardous Polymerisation:	Will not occur
Incompatible Materials:	Will react with strong oxidizing agents
Conditions to Avoid:	Heat, sparks, flame and build-up of electricity.
Hazardous Decomposition:	Burning can produce carbon monoxide and/or carbon dioxide

11. Toxicological Information

Inhalation:	Moderately irritating to mucous membranes.
Ingestion:	May cause nausea and vomiting. Aspiration may cause lung damage.
Skin:	May cause irritation and reddening.
Eye:	Vapour may irritate the eyes. Liquid or mist may irritate or damage the eyes
Chronic	Long term exposure by swallowing or repeated inhalation may cause degenerative changes in the liver, kidneys, gastrointestinal tract and heart muscle.

12. Ecological Information

Mobility:	Not known.
Persistence and Degradability:	No data available; Degree of elimination of 100% ethanol: 94%
Ecotoxicity:	(100% ethanol) – Toxicity to fish: > 1000mg/l/48h.

13. Disposal Considerations

Disposal Methods & Containers:	Wash empty containers with water. 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.
---	--

14. Transport Information

UN Number:	UN number 1170. Dangerous substance for the purpose of transport. Refer to appropriate State Regulations for storage and transport requirements.
UN Proper Shipping Name:	Ethanol Solutions
DG Class & Packing Group:	Classified as Flammable Liquid class 3, PG II.
Hazchem Code:	2[Y]E

15. Regulatory Information

Poisons Schedule:	Not scheduled
Classification:	Hazardous according to criteria of NOHSC. Dangerous Good according to criteria of the Australian Dangerous Good Code.

MATERIAL SAFETY DATA SHEET
CHLORHEXIDINE 0.5% in ALCOHOL 70% TINTED RED

16. Other Information

References: *Ethanol MSDS-022 issued 08/2008 CSR*
Chlorhexidine Digluconate Solution MSDS, issued 11/06/2008, Science Lab.com

Checked by: Anna McLean	Date: April 2009
Approved by: Robert Kimpton	Date: April 2009

Revision Information:

Date	Document	Superseded Document	Revision Information
June 2006	CHL01597_5 June 2006	CHL01597_4 April 2003	General review; additional code/pack size
March 2009	CHL01597_06 March 2009	CHL01597_5 June 2006	General review; Changes to section 9; Insertion of missing Section 10;

END OF MSDS