

## MATERIAL SAFETY DATA SHEET CHLORHEXIDINE 4.0%

### 1. Identification of the Product and Company

**Material Identification:** CHLORHEXIDINE GLUCONATE, 4 % SOLUTION.

**Other Names:** Nil

**Use:** Antiseptic / Antimicrobial.

**Company Name & Contact:**

**Details:** Barrs Pharmaceuticals Industries (Pty) Ltd.  
10 Inyoni Street  
NDABENI  
7405  
**Telephone (all hours): 021 531 6601**

**Other information:** All reasonable care has been taken to ensure information and advice contained in this data sheet is accurate. However Barrs Pharmaceutical Industries accepts no liability for any loss or damage suffered as a consequence of reliance on the information contained herein.

### 2. Hazards Identification

**Safety phrase:** S2 - Keep out of reach of children  
S7 - Keep container tightly closed  
S25 - Avoid contact with eyes

### 3. Composition/Information on Ingredients

Chemical Entity:	Proportion
Ethanol	<5 % v/v
Chlorhexidine Gluconate	<5 % v/v
Colour	<5 % w/v
Water – purified	>75 % v/v

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### 4. First Aid Measures

<b>Inhalation:</b>	Remove patient to fresh air. If respiratory irritation, dizziness, nausea or headache occurs, seek immediate medical attention. Apply artificial respiration if breathing stops.
<b>Ingestion:</b>	If swallowed, give large amounts of water to drink. Do not induce vomiting. Contact a doctor or Poisons Information Centre.
<b>Skin:</b>	Remove contaminated clothing and wash skin with water. If irritation (redness, itching, swelling) develops, seek medical attention. Launder contaminated clothing before reuse.
<b>Eye:</b>	Hold eyelids open and flush eye with gently running water for at least 15 minutes. Seek medical attention promptly if irritation persists.
<b>Advice to Doctor:</b>	There is no known antidote for overexposure. The use of activated charcoal is not expected to be clinically beneficial and may obscure visualization during endoscopy. Treat symptomatically.

### 5. Fire Fighting Measures

<b>Flammable Properties:</b>	Not Flammable
<b>Extinguishing Media:</b>	Water spray, carbon dioxide, dry chemical powder or foam as appropriate for the surrounding area.
<b>Fire Fighting Instructions:</b>	Evacuate personnel to a safe area. Move containers from area if it can be done without risk. Wear protective clothing and positive – pressure, self-contained breathing apparatus with full protective gear.

### 6. Accidental Release Measure

Use appropriate **PERSONAL PROTECTIVE EQUIPMENT** during clean-up to minimize exposure to this material. Evacuate personnel from the area.

<b>Initial Containment:</b>	Prevent material from entering sewers, waterways, or low areas. Use dikes to contain spilled material and retain for later disposal.
<b>Spill clean-up:</b>	Ventilate area well; take measures to prevent static discharge. Vacuum or mop up liquid and place in a container suitable for chemical waste. Thoroughly wash area with detergent and water. Dispose of all solid waste and wash and rinse with water in accordance with federal, state and local regulations.

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### 7. Handling and Storage

**Safe Handling Practices:** Do not get in eyes, skin or on clothing. Do not taste. Wash thoroughly after handling. Use only with adequate ventilation.

**Storage:** Store in airtight container in the dark. Keep container closed when not in use. Store at room temperature. Keep from contact with oxidizing materials.

### 8. Exposure Controls; Personal Protection

**Engineering Controls:** Handle material under adequate ventilation. Keep container tightly closed when not in use.

**Personal Protection:** Wear safety glasses with side shields. Wear impervious clothing such as gloves, lab coat, shoe covers, apron, or jumpsuit, as appropriate, to prevent skin contact. Consult the site safety professional for additional guidance as needed.

### 9. Physical and Chemical Properties

**Appearance:** A clear, red liquid with a characteristic fresh odour.

**pH:** 3.0 to 7.0

**Solubility:** Miscible with water.

### 10. Stability and Reactivity

**Chemical Stability:** Low stability hazard expected at normal operating temperatures.

**Reactivity:** Not expected to be reactive.

**Incompatible Materials:** Strong alkalis or reducing agents. Will react with strong oxidizing agents. Incompatible with soaps and other anionic materials.

**Hazardous Decomposition:** Will not decompose under conditions of usual handling. Heating and alkaline pH promotes decomposition with the production of trace levels of 4-chloroaniline.

## MATERIAL SAFETY DATA SHEET

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#### 11. Toxicological Information

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

#### 12. Ecological Information

<b>Ecotoxicity:</b>	No information available.
<b>Chemical Fate Information:</b>	No information available

#### 13. Disposal Considerations

<b>Disposal Methods &amp; Containers:</b>	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.
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#### 14. Transport Information

Disposal of this material must be in accordance with provincial and local regulations.

#### 15. Regulatory Information

<b>Poisons Schedule:</b>	Not scheduled
<b>Classification:</b>	Hazardous according to criteria of NOHSC. Dangerous Good according to criteria of the South African Dangerous Good Code.

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### 16. Other Information

**References:**

1. Chlorhexidine Digluconate Solution MSDS, issued 11/06/2008, Science Lab.com
2. BETASEPT<sup>®</sup> Surgical Scrub (4 % Chlorhexidine Gluconate) MSDS; Version: 11 June 2013.