

# Safety Data Sheet



## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name:** CHLORHEXIDINE DIGLUCONATE 20%

**Other name(s):** Chlorhexidine Digluconate Solution

**Recommended Use of the Chemical and Restrictions on Use** Pharmaceutical applications.

**Supplier:** Ixom Operations Pty Ltd (Bronson & Jacobs division) - incorporated in Australia  
**ABN:** 51 600 546 512  
**Street Address:** 70 Marple Avenue  
Villawood NSW 2163  
Australia

**Telephone Number:** +61 2 8717 2929  
**Facsimile:** +61 2 9755 9611  
**Emergency Telephone:** **1 800 033 111 (ALL HOURS)**

Please ensure you refer to the limitations of this Safety Data Sheet as set out in the "Other Information" section at the end of this Data Sheet.

## 2. HAZARDS IDENTIFICATION

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; DANGEROUS GOODS.

Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 are not subject to the provisions of the Australian Code for the Transport of Dangerous Goods by Road and Rail when transported by road or rail in packagings: that do not incorporate a receptacle exceeding 500 kg(L); or IBCs.

This material is hazardous according to Safe Work Australia; HAZARDOUS CHEMICAL.

### Classification of the chemical:

Eye Damage - Category 1

The following health/environmental hazard categories fall outside the scope of the Workplace Health and Safety Regulations:

Acute Aquatic Toxicity - Category 1

Chronic Aquatic Toxicity - Category 1

**SIGNAL WORD:** DANGER



### Hazard Statement(s):

H318 Causes serious eye damage.

H410 Very toxic to aquatic life with long lasting effects.

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## Precautionary Statement(s):

### Prevention:

P273 Avoid release to the environment.  
P280 Wear protective gloves, protective clothing and eye protection.

### 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.  
P310 Immediately call a POISON CENTER or doctor/physician.  
P391 Collect spillage.

### Storage:

No storage statements.

### Disposal:

No disposal statements.

**Poisons Schedule (SUSMP):** S7 Dangerous Poison.

## 3. COMPOSITION AND INFORMATION ON INGREDIENTS

Components	CAS Number	Proportion	Hazard Codes
Chlorhexidine digluconate	18472-51-0	20%	H318, H410
Ingredients determined not to be hazardous	-	to 100%	-

## 4. FIRST AID MEASURES

For advice, contact a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor.

### Inhalation:

Remove victim from area of exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. If patient finds breathing difficult and develops a bluish discolouration of the skin (which suggests a lack of oxygen in the blood - cyanosis), ensure airways are clear of any obstruction and have a qualified person give oxygen through a face mask. Apply artificial respiration if patient is not breathing. Seek immediate medical advice.

### Skin Contact:

If skin or hair contact occurs, remove contaminated clothing and wash skin and hair with soap and water. If irritation occurs seek medical advice.

### Eye Contact:

Immediately wash in and around the eye area with large amounts of water for at least 15 minutes. Eyelids to be held apart. Remove clothing if contaminated and wash skin. Urgently seek medical assistance. Transport promptly to hospital or medical centre. Continue to wash with large amounts of water until medical help is available.

### Ingestion:

Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water. Seek medical advice.

### Indication of immediate medical attention and special treatment needed:

Treat symptomatically.

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## 5. FIRE FIGHTING MEASURES

### Suitable Extinguishing Media:

Alcohol resistant foam is the preferred firefighting medium but, if it is not available, normal protein foam can be used.

**Hazchem or Emergency Action Code:** · 3Z

### Specific hazards arising from the chemical:

Not combustible, however following evaporation of the water component of the material, the residual material can burn if ignited. On burning will emit toxic fumes, including those of oxides of carbon, oxides of nitrogen and halogenated compounds.

### Special protective equipment and precautions for fire-fighters:

Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion. Keep containers cool with water spray.

## 6. ACCIDENTAL RELEASE MEASURES

### Emergency procedures/Environmental precautions:

Shut off all possible sources of ignition. Clear area of all unprotected personnel. Work up wind or increase ventilation. If contamination of sewers or waterways has occurred advise local emergency services.

### Personal precautions/Protective equipment/Methods and materials for containment and cleaning up:

Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contact and breathing in vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal.

## 7. HANDLING AND STORAGE

This material is a Scheduled Poison S7 and must be stored, maintained and used in accordance with the relevant regulations.

### Precautions for safe handling:

Avoid skin and eye contact and breathing in vapour, mists and aerosols. Keep out of reach of children.

### Conditions for safe storage, including any incompatibilities:

Store in a cool, dry, well ventilated place and out of direct sunlight. Store away from sources of heat or ignition. Store away from foodstuffs. Protect from freezing. Store below 25°C. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for leaks.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control Parameters:** No value assigned for this specific material by Safe Work Australia.

### Appropriate engineering controls:

Use in well ventilated areas. Use with local exhaust ventilation or while wearing organic vapour/particulate respirator. Keep containers closed when not in use.

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## Individual protection measures, such as Personal Protective Equipment (PPE):

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

OVERALLS, SAFETY SHOES, CHEMICAL GOGGLES, GLOVES.



Wear overalls, chemical goggles and impervious gloves. If determined by a risk assessment an inhalation risk exists, wear an organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Clear Liquid
<b>Colour:</b>	Colourless
<b>Odour:</b>	Odourless
<b>Odour Threshold:</b>	Not available
<b>Solubility:</b>	Soluble in water.
<b>Specific Gravity:</b>	1.06 - 1.07
<b>Relative Vapour Density (air=1):</b>	Not available
<b>Vapour Pressure (20 °C):</b>	Not available
<b>Flash Point (°C):</b>	Not applicable
<b>Flammability Limits (%):</b>	Not applicable
<b>Autoignition Temperature (°C):</b>	Not applicable
<b>Melting Point/Range (°C):</b>	Not available
<b>Boiling Point/Range (°C):</b>	Not available
<b>Decomposition Point (°C):</b>	Not available
<b>pH:</b>	Not available
<b>Viscosity:</b>	Not available
<b>Partition Coefficient:</b>	<4

## 10. STABILITY AND REACTIVITY

<b>Reactivity:</b>	No information available.
<b>Chemical stability:</b>	Stable under normal conditions of use.
<b>Possibility of hazardous reactions:</b>	Hazardous polymerisation will not occur.
<b>Conditions to avoid:</b>	Avoid exposure to heat, sources of ignition, and open flame. Do not allow product to freeze.

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**Incompatible materials:** Incompatible with strong acids, bases, oxidising agents, anionic compounds, sulphates, borates, bicarbonates and chlorides.

**Hazardous decomposition products:** Oxides of carbon. Oxides of nitrogen. Halogenated compounds.

## 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

**Ingestion:** No adverse effects expected, however, large amounts may cause nausea and vomiting.

**Eye contact:** A severe eye irritant. Contamination of eyes can result in permanent injury.

**Skin contact:** Contact with skin may result in irritation. May cause skin sensitisation in sensitive individuals. Repeated or prolonged skin contact may lead to allergic contact dermatitis.

**Inhalation:** Material may be irritant to the mucous membranes of the respiratory tract (airways). May cause respiratory sensitisation in sensitive individuals.

**Acute toxicity:**

Oral LD50 (rat): >2,000 mg/kg (1)

Dermal LD50 (rabbit): >2,000 mg/kg (1)

**Skin corrosion/irritation:** Minimal irritant (rabbit). (1)

**Serious eye damage/irritation:** Severe irritant. (1)

**Respiratory or skin sensitisation:** Not classified.

**Chronic effects:** Pre-existing skin or respiratory tract allergy may increase the chance of developing increased allergy symptoms from exposure to this product. (1)

**Mutagenicity:** No evidence of mutagenic effects.

**Carcinogenicity:** No evidence of carcinogenic effects.

**Reproductive toxicity:** No evidence of reproductive effects.

**Specific Target Organ Toxicity (STOT) - single exposure:** Not classified.

**Specific Target Organ Toxicity (STOT) - repeated exposure:** None known.

**Aspiration hazard:** Not classified.

Eczema and leg ulcer patients patch tested with 1% chlorhexidine digluconate solutions have developed contact dermatitis. Topical applications of solutions in patients have caused urticaria and anaphalactic shock. Accidental intravenous administration of the substance caused acute respiratory distress syndrome.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Avoid contaminating waterways.

**Persistence/degradability:** Not readily biodegradable. (1)

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<b>Bioaccumulative potential:</b>	For active ingredient: Bioconcentration Factor (BCF): 42 L/kg (1).
<b>Mobility in soil:</b>	For active ingredient: Log Koc: >3.9 (1)
<b>Aquatic toxicity:</b>	Very toxic to aquatic organisms. May cause long lasting harmful effects to aquatic life. For active ingredient: (1) Acute LC50 (fish): 2.08 mg/L Acute EC50 (Daphnia magna): 0.087 mg/L Acute EC50 (algae): 0.081 mg/L

## 13. DISPOSAL CONSIDERATIONS

### Disposal methods:

Refer to Waste Management Authority. Dispose of contents and container in accordance with local, regional, national, international regulations.

## 14. TRANSPORT INFORMATION

### Road and Rail Transport

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; DANGEROUS GOODS.

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<b>UN No:</b>	3082
<b>Transport Hazard Class:</b>	9 Miscellaneous Dangerous Goods
<b>Packing Group:</b>	III
<b>Proper Shipping Name or Technical Name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS CHLORHEXIDINE DIGLUCONATE)
<b>Hazchem or Emergency Action Code:</b>	· 3Z

### Marine Transport

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; DANGEROUS GOODS.

<b>UN No:</b>	3082
<b>Transport Hazard Class:</b>	9 Miscellaneous Dangerous Goods
<b>Packing Group:</b>	III
<b>Proper Shipping Name or Technical Name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS CHLORHEXIDINE DIGLUCONATE)
<b>IMDG EMS Fire:</b>	F-A

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**IMDG EMS Spill:** S-F

**Marine Pollutant** Yes



## **Air Transport**

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; DANGEROUS GOODS.

**UN No:** 3082  
**Transport Hazard Class:** 9 Miscellaneous Dangerous Goods  
**Packing Group:** III  
**Proper Shipping Name or Technical Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS CHLORHEXIDINE DIGLUCONATE)

## **15. REGULATORY INFORMATION**

### **Classification:**

This material is hazardous according to Safe Work Australia; HAZARDOUS CHEMICAL.

### **Classification of the chemical:**

Eye Damage - Category 1

The following health/environmental hazard categories fall outside the scope of the Workplace Health and Safety Regulations:

Acute Aquatic Toxicity - Category 1

Chronic Aquatic Toxicity - Category 1

### **Hazard Statement(s):**

H318 Causes serious eye damage.

H410 Very toxic to aquatic life with long lasting effects.

**Poisons Schedule (SUSMP):** S7 Dangerous Poison.

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

## **16. OTHER INFORMATION**

(1) Supplier Safety Data Sheet; 02/ 2017.

This safety data sheet has been prepared by Ixom Operations Pty Ltd Toxicology & SDS Services.

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## Reason(s) for Issue:

5 Yearly Revised Primary SDS  
Change in Hazardous Chemical Classification  
Update in Toxicological Information  
Change in Ecological Information  
Change to Transport Information

This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Ixom Operations Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact their Bronson & Jacobs representative or Ixom Operations Pty Ltd at the contact details on page 1.

Ixom Operations Pty Ltd's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.

Bronson and Jacobs incorporating the businesses of Woods and Woods and Keith Harris.