

**1. IDENTIFICATION**

**Product identifier:** CHLORHEXIDINE 4% Pre-Op Wash/Surgical Scrub 200 mL  
**Synonyms:** 5000023557 5000023558

**Contact:** Evaris Pharma  
**Address:** 25-29 Delawney Street  
 Balcatta, Western Australia, 6021

**Telephone number:** +61 8 9441 7800  
**Australia Emergency telephone:** Poisons Information Centre: 13 11 26  
**New Zealand Emergency telephone:** National Poisons Center: 0800764766

**Recommended use:** Antiseptic skin cleanser  
**Restrictions on use:** None

**2. HAZARD(S) IDENTIFICATION**

**Classification:**

Physical	Health
Not Hazardous	Eye Damage Category 1 (H318)

**Label Elements**

**DANGER!**

**Hazard statement(s)**

Causes serious eye damage.



**Precautionary statement(s)**

Wear eye protection.  
 IF in eyes: Rinse cautiously with water for several minutes.  
 Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical name	CAS No.	Concentration	Substance Classification
Glycerol	56-81-5	<5%	Not Hazardous
Chlorhexidine Gluconate	18472-51-0	4%	Eye Damage Category 1 (H318) Aquatic Acute Toxicity Category 1 (H400) Aquatic Chronic Toxicity Category 1 (H410)
Isopropanol	67-63-0	<4%	Flammable Liquid Category 2 (H225)

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			Eye Irritation Category 2A (H319) Specific Target Organ Toxicity Single Exposure Category 3 (narcotic effects) (H336)
Alkyl polyglycoside C8-10	68515-73-1	<4%	Eye Damage Category 1 (H318) Aquatic Acute Toxicity Category 3 (H402)
Alkyl polyglycoside C10-16	110615-47-9	<3%	Skin Irritation Category 2 (H315) Eye Damage Category 1 (H318) Aquatic Acute Toxicity Category 2 (H401)

### 4. FIRST-AID MEASURES

**Inhalation:** No first aid should be required. If irritation occurs or symptoms develop, get medical attention.

**Skin contact:** This product is intended for use on the skin. If irritation develops, discontinue use and get medical attention. Remove contaminated clothing and launder it before reuse.

**Eye contact:** Immediately flush eyes with water while lifting the upper and lower lids for at least 20 minutes. Remove contact lenses, if present and easy to do after 5 minutes of flushing, then continue flushing. Get immediate medical attention.

**Ingestion:** Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to a person who is unconscious or convulsing. Get medical attention.

**Most important symptoms/effects, acute and delayed:** Causes severe eye irritation and possible damage. Prolonged skin contact may dry and irritate the skin.

**Indication of immediate medical attention and special treatment, if necessary:** Immediate medical attention is recommended for eye contact.

### 5. FIRE-FIGHTING MEASURES

**Extinguishing media:** Use water fog or spray, carbon dioxide, dry chemical or foam.

**Specific hazards arising from the chemical:** Not flammable or combustible. Thermal decomposition may generate oxides of carbon and nitrogen and chlorine compounds.

**Special protective equipment and precautions for fire-fighters:** Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for all fires involving chemicals. Cool fire exposed containers with water.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment, and emergency procedures:** Wear appropriate protective clothing and equipment as described in Section 8. Caution – surfaces may be slippery.

**Environmental Precautions:** Prevent spill from entering sewers and water courses. Report releases as required by local and national authorities.

**Methods and materials for containment and cleaning up:** Stop spill at the source if it is safe to do so. Absorb with an inert material. Collect into a suitable container for disposal.

### 7. HANDLING AND STORAGE

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**Precautions for safe handling:** Avoid eye contact. Wash thoroughly after handling. Remove contaminated clothing and laundry before re-use.

**Conditions for safe storage, including any incompatibilities:** Protect containers from physical damage. Keep containers closed.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Exposure guidelines:

Glycerol (as mist)	10 mg/m <sup>3</sup> TWA AU OEL 10 mg/m <sup>3</sup> TWA NZ OEL
Chlorhexidine Gluconate	Perrigo OEB2 (100-1000 ug/m <sup>3</sup> )
Isopropanol	200 ppm TWA, 400 ppm STEL ACGIH TLV 400 ppm TWA, 500 ppm STEL AU OEL 400 ppm TWA, 500 ppm STEL NZ OEL
Alkyl polyglycoside C8-10	None Established
Alkyl polyglycoside C10-16	None Established

**Appropriate engineering controls:** General ventilation is normally adequate. Use with adequate ventilation to minimize exposures levels.

#### Individual protection measures:

**Respiratory protection:** None needed under normal use conditions. If exposure levels are exceeded or irritation is experienced, an approved organic vapor/particulate or supplied air respirator is recommended. Selection of respiratory protection depends on the contaminant type, form and concentration. Select in accordance with applicable regulations and good Industrial Hygiene practice.

**Skin protection:** This product is intended for use on the skin. Impervious gloves recommended for bulk processing.

**Eye protection:** Chemical safety goggles recommended if needed to avoid eye contact and for bulk processing.

**Other:** None known.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance (physical state, colour, etc.):** Viscous, soapy, pink liquid.

**Odour:** Faint odour

<b>Odour threshold:</b> Not applicable	<b>pH:</b> 5.2-5.4
<b>Melting point/freezing point:</b> Not determined	<b>Boiling Point:</b> Not determined
<b>Flash point:</b> None	<b>Evaporation rate:</b> Not determined
<b>Flammability (solid, gas):</b> Not applicable	<b>VOC:</b> Not determined
<b>Flammable limits: LEL:</b> None	<b>UEL:</b> None
<b>Vapour pressure:</b> Not determined	<b>Vapour density:</b> Not determined
<b>Relative density:</b> 1.038	<b>Solubility(is):</b> Not determined
<b>Partition coefficient: n-octanol/water:</b> Not determined	<b>Auto-ignition temperature:</b> Not determined
<b>Decomposition temperature:</b> Not determined	<b>Viscosity:</b> Not determined
<b>Particle Characteristics:</b> Not applicable	

### 10. STABILITY AND REACTIVITY

**Reactivity:** Not reactive under normal conditions of use.

**Chemical stability:** Stable.

**Possibility of hazardous reactions:** None known.

**Conditions to avoid:** None known.

**Incompatible materials:** Avoid oxidizing agents.

**Hazardous decomposition products:** Thermal decomposition may yield carbon oxides, nitrogen oxides and chlorine compounds.

## 11. TOXICOLOGICAL INFORMATION

### Acute effects of exposure:

**Inhalation:** Inhalation of mists may cause minor irritation of the mucous membranes.

**Ingestion:** Swallowing may cause gastrointestinal irritation and diarrhea.

**Skin contact:** No adverse effects are expected. Prolonged skin contact may irritate and dry skin.

**Eye contact:** Contact may cause severe irritation with redness, pain and tearing. Corneal damage is possible.

**Chronic Effects:** None known.

### Acute Toxicity Values:

Isopropanol: LD50 oral rat 5045 mg/kg; LD50 dermal rabbit 12,800 mg/kg.

Chlorhexidine Gluconate: LD50 oral rat >2000 mg/kg, LD50 dermal rabbit >5000 mg/kg

Glycerol: LD50 oral rat 12.6 g/kg

Alkyl polyglycoside C8-10: LD50 oral rat >2000 mg/kg; LD50 dermal rabbit >2000 mg/kg

Alkyl polyglycoside C10-16: LD50 oral rat >2000 mg/kg; LD50 dermal rabbit >2000 mg/kg

**Skin Corrosion/Irritation:** Not classified.

**Serious Eye Damage/Irritation:** Causes serious eye damage.

**Respiratory Sensitization:** Not classified.

**Skin Sensitization:** Not a sensitizer.

**Germ Cell Mutagenicity:** Not a germ cell mutagen. Chlorhexidine gluconate was negative in the in-vitro mammalian gene cell mutation asses (OECD 476), the Ames test, and the mammalian chromosome aberration test (OECD 473). It was also negative in an in-vivo micronucleus test in mice.

**Carcinogenicity:** None of the components are listed as carcinogens or suspected carcinogens by IARC, NTP, or ACGIH. Chlorhexidine did not cause cancer in lifetime feeding studies in rats or mice.

**Reproductive Toxicity:** Not a reproductive toxin. Chlorhexidine gluconate did not cause malformations or variations of any kind when tested in rats.

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

**Specific Target Organ Toxicity (STOT) – repeated exposure:** Not classified.

**Aspiration Hazard:** Not classified

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity values:** Toxic to aquatic life with long lasting effects.

Chlorhexidine gluconate: LC50 danio rerio 2.08 mg/L/96 hr; EC50 daphnia magna 0.087 mg/L/48 hr, NOEC 0.02 mg/L/21 d. (mortality); ErC50 algae 0.081 mg/L/72 hr.

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Isopropanol: LC50 fathead minnows (*Pimephales promelas*), 230 mg/L/96 hr; EC50 water flea (*Daphnia magna*), immobilization: 7,550-13,299 mg/L/48 hr; EC50 alga *Scenedesmus* sp., Growth rate inhibition: >1,000 mg / 72 hr

Glycerol: LC50 goldfish >5000 mg/L/24 hr; LC50 daphnia magna >10,000 mg/L/24 hr.

Alkyl polyglycoside C8-10: LC50 fish >1-10 mg/L

Alkyl polyglycoside C10-16: LC50 fish >10-100 mg/L

**Persistence and degradability:** Chlorhexidine gluconate, isopropanol, glycerol, alkyl polyglycoside C8-10 and alkyl polyglycoside C10-16 are readily biodegradable.

**Bioaccumulative potential:** No data available

**Mobility in soil:** No data available.

**Other adverse effects:** None known.

### 13. DISPOSAL CONSIDERATIONS

Dispose in accordance with all local, state and federal regulations. No specific disposal method is recommended.

### 14. TRANSPORT INFORMATION

	UN Number	Proper shipping name	Hazard Class	Packing Group	Environmental Hazard
IMDG	UN3082	Environmentally Hazardous Substance, liquid, n.o.s. (chlorhexidine gluconate)	9	III	Marine Pollutant
IATA	UN3082	Environmentally Hazardous Substance, liquid, n.o.s. (chlorhexidine gluconate)	9	III	Yes
ADG	UN3082	Environmentally Hazardous Substance, liquid, n.o.s. (chlorhexidine gluconate)	9	III	Yes

**Hazchem Code:** ●3Z

Notes: Special provision AU01 states that this product is not regulated when transported by road and rail in packagings that do not incorporate a receptacle exceeding 500 kg/L or IBSs.

This product is classified as a Marine Pollutant (Environmentally Hazardous Substance) in accordance with the IMDG Code and the UN Model Regulations. However, it is packaged in either single packages or inner packagings in combination packages containing net quantities of less than 5 kg/5 L (IMDG Code 2.10.2.7; ICAO Special Instruction A197) so is shipped unregulated. Shipment may be regulated if contents are removed from inner packaging and combined into containers exceeding 5 L or 5 kg.

**Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):** Not applicable – product is transported only in packaged form.

**Special precautions:** None known.

### 15. REGULATORY INFORMATION

**Safety, health, and environmental regulations specific for the product in question.**

**Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP):** Schedule 6.

**Australia Inventory:** This product is a drug and is exempt from AICS.

**New Zealand Inventory:** This product is a drug and is exempt from HSNO regulations.

**HSNO Number:** Not Applicable

**Agricultural Compounds and Veterinary Medicines Act 1997:** Not applicable.

**Montreal Protocol:** Not applicable

**Stockholm Convention:** Not applicable

**Rotterdam Convention:** Not applicable

**Basel Convention:** Not applicable

**International Convention on the Prevention of Pollution from Ships (MARPOL):** Not applicable

## 16. OTHER INFORMATION

**NFPA Rating:** Health = 3      Flammability = 0      Instability = 0  
**HMIS Rating:** Health = 3      Flammability = 0      Physical Hazard = 0

**Date of publication:** 08/05/2022

### Full Text of GHS Classification and H Phrases from Section 3:

H225 Highly flammable liquid and vapor.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H400 Very toxic to aquatic life.  
H401 Toxic to aquatic life.  
H402 Harmful to aquatic life.  
H410 Very toxic to aquatic like with long lasting effects.

### List of Abbreviations or Acronyms:

ACGIH American Conference of Industrial Hygienists  
ADG Australian Dangerous Goods  
AICS Australian Inventory of Chemical Substances  
AU Australia  
EC Effective Concentration  
EU European Union  
GHS Globally Harmonized System of Classification and Labelling of Chemicals  
HSNO Hazardous Substances and New Organisms  
IARC International Agency of Research on Cancer  
IATA International Air Transport Association  
IMDG International Maritime Dangerous Goods  
LC Lethal Concentration  
LD Lethal Dosage  
LEL Lower Explosive Limit  
NTP National Toxicology Program  
NZ New Zealand  
OEL Occupational Exposure Limits  
US OSHA United States Occupational Safety and Health Administration  
PEL Permissible Exposure Limit  
SDS Safety Data Sheet  
STEL Short Term Exposure Limit  
TWA Time-Weighted Average  
UEL Upper Explosive Limit  
VOC Volatile Organic Compounds  
WES Workplace Exposure Standards

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### WHS Work Health and Safety

**Disclaimer:** This SDS has been prepared for occupational exposure. Consumers: Refer to the package insert or product label for appropriate consumer-specific information about this product when used according to manufacturer's directions. Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy of the information contained therein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequence of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).