

## 1. IDENTIFICATION OF SUBSTANCE / MIXTURE AND OF SUPPLIER

**Product Identifier:** Chlorhexidine gluconate solution 8.12%  
**Product Form:** Liquid  
**Other means of identification:** 40416  
**Product Use:** Antimicrobial additive in various preparations

**Supplier Details:** maxill inc.  
 80 Elm St.  
 St. Thomas, ON  
 Canada, N5R 6C8

**Emergency Contact:** maxill inc. 519-631-7370, CANUTEC: 613.996.6666, ChemTel: 1-800-255-3924

## 2. HAZARDS IDENTIFICATION

**GHS Classification for mixture:** Acute aquatic toxicity – Category 2  
 Eye irritation – Category 2A  
 Skin Irritation – Category 2

**GHS Label Elements:**



**Signal Word:** Warning  
**Hazard Statements:** Causes skin irritation  
 Causes serious eye irritation  
 Toxic to aquatic life  
**Precautionary Statements:** Wear eye protection / face protection. Wash skin thoroughly after handling. Avoid release to the environment  
 IF IN EYES: Contact may cause serious eye irritation  
 IF ON SKIN: Contact with skin may cause irritation  
 IF INGESTED: Under normal conditions of intended use, this material is not expected to be an ingestion hazard. Ingestion may cause gastrointestinal irritation, nausea and vomiting  
 IF INHALED: Inhalation of mist or spray may cause respiratory irritation  
**Storage:** Store locked up  
**Disposal:** Dispose of contents/container in accordance with local /regional /national /international regulations  
**Hazards not otherwise classified:** None known.

## 3. COMPOSITION AND INFORMATION ON INGREDIENTS

### Mixture

| Name                    | Product Identifier | % (w/v)  |
|-------------------------|--------------------|----------|
| Chlorhexidine gluconate | (CAS) 18472-51-0   | 5 – 10   |
| Water                   | (CAS) 7732-18-5    | 80 - 100 |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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### SAFETY DATA SHEET

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

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## 4. FIRST AID MEASURES

### Description of First Aid Measures

**Inhalation:** If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention.

**Skin Contact:** Wash skin thoroughly with soap and water after handling. Seek medical attention if irritation develops and persists.

**Eye Contact:** If product enters the eyes, open eyes while under gentle running water for at least 15 minutes. Seek medical attention if irritation persists or blurred vision occurs.

**Ingestion:** If product is swallowed, call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or SDS with the victim to the health professional.

### Most important symptoms/effects, acute and delayed

Contact with eyes and skin may cause irritation.

### Indication of Any Immediate Medical Attention and Special Treatment Needed

**Notes to physician:** Treat symptoms and eliminate overexposure

See toxicological information (Section 11)

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## 5. FIRE FIGHTING MEASURES

### Extinguishing Media

**Suitable Extinguishing Media:** Water, water haze, fire-extinguishing powder, foam.

### Special Hazards Arising from the Substance or Mixture

Formation of toxic gases is possible during heating or in case of fire.

**Further Information:** Cool endangered receptacles with water spray. Dispose of fire debris and contaminated fire-fighting water in accordance with official regulations.

**Special protective equipment for fire-fighters:** In the event of fire, wear self-contained breathing apparatus.

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## 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures

Not required

**Environmental precautions:** Stop leak. Contain spill if possible and safe to do so. Prevent product from entering drains.

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## SAFETY DATA SHEET

### Methods and materials for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

## 7. HANDLING AND STORAGE

### Precautions for Safe Handling

**General Procedures:** Keep receptacles tightly sealed. Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

**Handling:** Store locked up.

**Storage:** Store in cool, dry conditions in well-sealed receptacles.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Controls

#### **Occupational exposure limits**

No information available

#### **Biological occupational exposure limits**

No available data

#### Appropriate engineering controls

Provide adequate ventilation when using the material and follow the principles of good occupational hygiene to control personal exposures.

#### **Respiratory protection:**

Respiratory protection not required

#### **Hand protection:**

Handle with protective impermeable gloves. Gloves must be inspected prior to use. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### **Eye protection:**

Wear tightly sealed goggles.

#### **Skin and body protection:**

Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Hygiene measures:**

Do not eat, drink, or smoke while working. Be sure to clean skin thoroughly after work and before breaks. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Avoid contact with the eyes. Avoid contact with the eyes and skin.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|   |                      |
|---|----------------------|
| <b>Appearance (<i>physical state</i>)</b>             | Liquid.              |
| <b>Colour</b>   | Clear                |
| <b>Odor</b>   | Faint, medicine-like |
| <b>Initial boiling point</b>                          | > 100°C              |
| <b>Freezing point</b>                                 | < 0°C                |
| <b>Flash point</b>                                    | Not applicable       |
| <b>Upper / Lower flammability or explosive limits</b> | Not applicable       |
| <b>Vapor pressure</b>                                 | Not available        |
| <b>Vapor density</b>                                  | Not available        |
| <b>Specific Gravity</b>                               | 1.024                |
| <b>Partition coefficient: n-octanol/water</b>         | Not available        |

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## SAFETY DATA SHEET

|                           |                  |
|---------------------------|------------------|
| Auto-ignition temperature | Not applicable   |
| Solubility(ies)           | Soluble in water |
| pH                        | 5.5 – 7.0        |

## 10. STABILITY AND REACTIVITY

|  |  |
|--|--|
| <b>Reactivity:</b>                       | No available data  |
| <b>Chemical Stability:</b>               | No decomposition if used and stored according to specifications. |
| <b>Conditions to Avoid:</b>              | No available data.   |
| <b>Incompatible Materials:</b>           | Strong oxidizing agents  |
| <b>Hazardous Decomposition Products:</b> | Ammonia.   |

## 11. TOXICOLOGICAL INFORMATION

### Information on Toxicological Effects - Component

#### Acute Toxicity:

| Ingredient name         | LD <sub>50</sub> Oral | Species | LD <sub>50</sub> Dermal | Species | LC <sub>50</sub> Inhalation | Species |
|-------------------------|-----------------------|---------|-------------------------|---------|-----------------------------|---------|
| Chlorhexidine gluconate | >2000 mg/kg           | Rat     | -                       | -       | -                           | -       |

### Information on toxicological Effects – Product

No available data for this section

### Irritation/Corrosion Information for Component

#### Primary Irritant effects

|                         |                               |
|-------------------------|-------------------------------|
| <b>Skin irritation:</b> | No irritating effect          |
| <b>Eye irritation:</b>  | Irritating effect             |
| <b>Sensitization:</b>   | No sensitizing effects known. |

### Additional Information

**Carcinogenic categories:** Substance is not listed in the: IARC (International Agency for Research on Cancer), NTP (National Toxicology Program), or OSHA-Ca (Occupational Safety & Health Administration)

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity information for product:** No available data

### **Ecotoxicity information for Components:**

| Ingredient name         | Test | Time | Result     | Species |
|-------------------------|------|------|------------|---------|
| Chlorhexidine gluconate | EC50 | 48h  | 0.087 mg/L | Daphnia |
|                         | IC50 | 72h  | 0.011 mg/L | Algae   |
|                         | LC50 | 96h  | 10.4 mg/L  | Fish    |

**Persistence and degradability:** No available data

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### SAFETY DATA SHEET

|                                    |  |
|------------------------------------|--|
| <b>Bio-accumulative potential:</b> | No available data  |
| <b>Mobility in soil:</b>           | No available data  |
| <b>Other adverse effects:</b>      | No available data  |
| <b>General notes:</b>              | Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground. Poisonous for fish and plankton in water bodies. Very toxic for aquatic organisms |

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## 13. DISPOSAL CONSIDERATIONS

**Disposal Recommendations:** Must be specially treated adhering to official regulations. Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

**Packaging Disposal:** Disposal must be completed according to official regulations.

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## 14. TRANSPORT INFORMATION

This product is not considered a **dangerous good** as defined by the US Department of Transportation (DOT)

**Special precautions for user:** none

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## 15. REGULATORY INFORMATION

### Safety, Health and Environmental Regulations for Product

No available data for this section.

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## 16. OTHER INFORMATION: INCLUDING INFORMATION ON PREPARATION AND REVISION OF THE SDS

### Disclaimer

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