

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.

Chlorhexidine Gluconate 8.12%

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.

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)

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.

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

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

Chlorhexidine Gluconate 8.12%

SAFETY DATA SHEET

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

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Component

Acute Toxicity:

Ingredient name	LD ₅₀ Oral	Species	LD ₅₀ Dermal	Species	LC ₅₀ 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

Skin irritation:	No irritating effect
Eye irritation:	Irritating effect
Sensitization:	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)
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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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Bio-accumulative potential:	No available data
Mobility in soil:	No available data
Other adverse effects:	No available data
General notes:	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

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.

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

15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations for Product

No available data for this section.

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

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