

1. IDENTIFICATION OF SUBSTANCE / MIXTURE AND OF SUPPLIER

Product Identifier: Chlorhexidine gluconate solution 20%
Product Form: Liquid
Other means of identification: 40409
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: 1-888-226-8832, ChemTel: 1-800-255-3924

2. HAZARDS IDENTIFICATION

GHS Classification for mixture: Acute aquatic toxicity – Category 1
Chronic aquatic toxicity – Category 2

GHS Label Elements:



Signal Word: Warning
Hazard Statements: Very toxic to aquatic life
Causes serious eye irritation
Precautionary Statements: Wear eye protection / face protection. Wash skin thoroughly after handling.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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	10 - 30
Water	(CAS) 7732-18-5	65 - 85

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

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: Take affected persons into fresh air and keep quiet. Call a doctor immediately.

Skin Contact: If skin irritation continues, consult a doctor.

Eye Contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

Ingestion: Rinse out mouth and then drink plenty of water.

Most important symptoms/effects, acute and delayed

No information available

Indication of Any Immediate Medical Attention and Special Treatment Needed

Notes to physician: No information available

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: Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.

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.

Chlorhexidine Gluconate 20%



SAFETY DATA SHEET

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
Relative density	1.06-1.07 (20°C)
Partition coefficient: n-octanol/water	< 4
Auto-ignition temperature	Not applicable
Solubility(ies)	Soluble in water, 21 g/L in ethanol, 35 g/L in isopropanol, 44 g/L in acetone
pH	5.5 – 7.0

10. STABILITY AND REACTIVITY

Reactivity:

No available data

Chemical Stability:

No decomposition if used and stored according to specifications.

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SAFETY DATA SHEET

Conditions to Avoid: No available data.

Incompatible Materials: No available data.

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)

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

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

	DOT Classification	ADR/IATA	IMDG	IATA
UN number	3082	3082	3082	3082
Environmental hazards	Yes	Yes	Yes	Yes
Transport hazard class(es)	9	9	9	9
Packing Group	III	III	III	III
DOT Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CHLORHEXIDINE GLUCONATE)			

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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