

**MATERIAL  
SAFETY  
DATA  
SHEET**

**Chlorhexidine  
Digluconate**

**20%**

**1. Product Information**

**Product:** Chlorhexidine Digluconate 20%  
**Product Use:** Antimicrobial additive in various preparations  
**Supplier:** maxill inc.

**Product Codes:** 60705 40409 – 500 mL  
60705 40410 – 1 L

80 Elm Street, St. Thomas, ON  
Canada N5R 6C8

**Contacts:** Head Office: (519) 631-7370 Fax: (519) 631-3388 Emergency 24 hour CANUTEC: (613) 996-6666

**WHMIS Classification:** CLASS D2(B)



**2. Preparation Information**

**Date Prepared:** 30 January 2008  
**Prepared by:** Operations Department  
**Glossary of Terms:** NAV – Not Available

**Supersedes:** 20 December 2006 **Revision:** 3  
NAP – Not Applicable DG – Dangerous Goods

**3. Hazardous Ingredients**

<u>Ingredient</u>	<u>CAS</u>	<u>% Range</u>	<u>LD50 Oral</u> mg/kg Species	<u>LD50 Dermal</u> mg/kg Species	<u>LC50 Inhalation</u> ppm/4 h Species
Chlorhexidine Digluconate	18972-51-0	10 – 30	6300 Mouse	NAV NAP	NAV NAP

**4. Physical Data**

**Physical State:** Liquid  
**Boiling Point:** > 100°C  
**Appearance:** Clear, colourless  
**Odour:** Faint, medicine-like

**Specific Gravity:** 1.065  
**Freezing Point:** Approx. 0°C  
**Evaporation Rate:** NAV (BuAc = 1)  
**Odour Threshold:** NAV

**Vapour Density:** NAV (air = 1)  
**Vapour Pressure:** NAV  
**pH:** 5.5 – 7.0  
**Coeff. of H<sub>2</sub>O / Oil Distribution:** NAV

**5. Fire and Explosion Data**

**WHMIS CLASS B?** No  
**Upper Explosion Limit:** NAP  
**Lower Explosion Limit:** NAP

**Flash Point:** NAP  
**Auto Ignition Temperature:** NAV

**Sensitivity to Static Charge:** No  
**Sensitivity to Impact:** No

**Exinction Media:** Product is not combustible. Use dry chemical, foam or CO<sub>2</sub> for a surrounding fire.  
**Conditions to Avoid:** Heat and light.

**Hazardous Combustion Products:** May emit fumes of carbon oxides or hydrogen chloride if expose fire. Carbon monoxide and hydrogen chloride are highly toxic if inhaled; carbon dioxide in sufficient concentrations can act as an asphyxiant.

**6. Toxicological Properties**

**Route of Entry:** Eyes, ingestion and inhalation.

**Effects of Acute Exposure:**

**Eyes:** Causes moderate eye irritation with redness and swelling of the conjunctiva.

**Inhalation:** Not likely to be hazardous by inhalation but the effects are not known.

**Ingestion:** Can cause headache, dizziness, nausea, incoordination, drowsiness and loss of consciousness.

**LD50 Oral:** 6300 mg/kg (Mouse)

**LD50 Dermal:** NAV

**LC50 Inhalation:** NAV

**Irritancy of Product:** Eye and respiratory irritant. May be harmful if ingested.

**Exposure Limit:** NAV

**Carcinogenicity:** No

**Sensitization to Product:** No

**Teratogenicity:** No

**Reproductive Toxicity:** No

**Mutagenicity:** No

**Effects of Chronic Exposure:** Prolonged repeated exposure to skin can cause possible allergic reactions. Repeated or prolonged contact may cause dermatitis and/or defatting of the skin.

**Synergistic Materials:** No

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**7. First Aid Measures**

**Eye Contact:** Rinse immediately with cool water, remove contact lenses if any, and continue rinsing with water for at least 15 minutes while holding eyelids open. If irritation persists, consult a physician.  
**Ingestion:** Do not induce vomiting. Drink two glasses of cool water and call a physician immediately. Do not give anything by mouth if person is unconscious or convulsing.  
**Inhalation:** Remove to fresh air. If breathing is difficult, consult a physician.  
**Skin Contact:** Remove contaminated clothing and shoes. Wash well the skin with soap and water. Wash clothing before wearing again. If irritation develops and persists, consult a physician.

**8. Preventive Measures**

**Engineering Controls:** General ventilation.  
**Handling Procedures:** Avoid eye or skin contact. Do not breathe aerosols.  
**Storage Requirements:** Store in original container in a dark, dry place at controlled room temperature, away from heat, light and incompatible materials. Keep container closed when not in use.  
**Leak and Spill Procedure:** Mop up excess spilled liquid. For small spills, collect with absorbent material such as paper, vermiculite or floor absorbent. Dispose of product in accordance with applicable regulations.  
**Waste disposal:** Dispose of product in accordance with applicable federal, provincial and municipal regulations.

**Protective Equipment for Bulk Handling of Sealed Containers:**

**Respiratory:** Not required under normal conditions of handling.  
**Eyewear:** Safety goggles are recommended.  
**Gloves:** Impermeable gloves (rubber, synthetic) are recommended.  
**Footwear:** Not required under normal conditions of handling.  
**Other:** Eye wash fountains are recommended.

**Protective Equipment for End-Users:**

**Respiratory:** Not required under normal conditions of use.  
**Eyewear:** Safety goggles.  
**Gloves:** Impermeable gloves (rubber, synthetic).  
**Footwear:** Not required under normal conditions of handling.  
**Other:** Eye wash fountains are recommended.

**9. Reactivity Data**

**Conditions of Instability:** Stable  
**Incompatible Materials:** None known.  
**Conditions of Reactivity:** Heat and open flame.  
**Hazardous Decomposition Products:** May liberate toxic fumes of carbon oxides and hydrogen chloride if exposed to fire.

**10. Special Shipping Information**

<u>DG</u>	<u>Proper Shipping Name</u>	<u>TDG Hazard Class</u>	<u>UN Number</u>	<u>Packing Group</u>
No	NAP	NAP	NAP	NAP

