1. **Product and Company Information**

   Trade name: Dr. Disinfectant (Hand Cleansing Liquid CHG 4%)
   Address: Saudi Mais co. for medical products
   
   P.O. Box: 3900 – Riyadh 14335 – 7599 – Saudi Arabia
   Tel.: +966 11 2650184
   Fax: 2650139
   3rd Industrial Area, Al-kharj Road, Street No. 256
   
   Date of Issue: October, 2017

2. **Composition/Information on Ingredients**

   Chemical name: Water-based solution of surfactants and Chlorhexidine Digluconate (4%)
   Product type: Topical Antiseptic Solution (Disinfectant)
   Application: Hand Scrub (Disinfectant)

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>% by Weight</th>
<th>ACGIH TLV/OSHA PEL/Others</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chlorhexidine</td>
<td>4.0%</td>
<td>Not Established</td>
</tr>
<tr>
<td>Gluconate</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3. **Hazard Identification**

   If used as directed there is no particular danger

   **Eyes**: this product is not a significant eye hazard.
   
   **skin**: May cause irritation in hypersensitive individuals. Avoid contact with meninges.
   
   **Inhalation**: Overexposure may cause headache, fatigue, dizziness, loss of coordination and unconsciousness. Vapor has anesthetic properties.
   
   **Ingestion**: Harmful if swallowed.

4. **First Aid Measures**

   Seek medical attention for all cases of overexposure

   **Eyes**: Flush thoroughly with water for at least 15 minutes. Seek medical attention.
   
   **Ears**: Flush with water, repeating several times. Seek medical attention.
Skin: Rinse skin immediately with plenty of water. Seek medical attention.

Ingestion: Wash out mouth with water. Treat with gastric lavage using milk, egg white. Seek medical attention.

Inhalation: Remove patient from exposure. Keep warm and at rest. Seek medical attention if ill effects occur.

5. Fire Fighting Measures

Flash Point (Test Method): Not available
Flammability Limits (% in air): Lower: % Not Available
                                   upper: % Not Available
Auto-Ignition temperature: Not Available
Flammability: Not Flammable
Extinguishing Media: Fog ox Water Spray, Foam, Carbon Dioxide, Class A, BC, or ABC Fire Extinguishers.
Hazardous combustion products: Nitrous Oxide and Ammoniacal Vapors
Firefighting Instructions: As in any fire, wear full protective Clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand ox other positive pressure mode.

Unusual Fire and Explosion Hazards: emits toxic fumes under fire conditions.

6. Accidental Release Measures

In Case of Spill or Leak

Wear appropriate protective equipment during cleanup. Ventilate closed spaces before entering. Do not touch or walk through spilled material. Absorb spilled materials with suitable absorbent. Transfer to container in accordance with regulatory requirements. Mop area clean.

7. Handling and Storage

Storage: The product should by stored in its original container, in a secure, dry, well-ventilated area. Avoid Excessive heat. Keep container tightly closed.

Handling: External use only. Avoid contact with eyes, ears and mouth.
8. Exposure Controls and Personal Protection

Eye/Face Protection : Not suitable for normal use. Wear safety googles of a full-face shield for clean up or if splashing is possible.

Skin protection : Not required for normal use. Wear impervious gloves and apron for spill cleanup.

Respiratory Protection : Not required for normal use. Use NIOSH-approved respirator for organic vapors, if necessary.

Hand protection : Not necessary

Ventilation : Well aired, cool rooms

9. Physical and Chemical Properties

Appearance : Clear liquid
Color : Red/Orange
Smell : Pleasant Lemon
pH-factor, (1%) @ 25°C : 5.0 – 6.0
Boiling point/range : Not Available
Melting point/range : Not Available
Vapor pressure : Not Established
Percent Volatile : Not Established
Evaporation Rate : not established
Specific gravity, 20/20 : 1.010 – 1.020
solubility in water : Soluble
solubility in ethanol : Soluble
Viscosity, 20°C : mPa. s = cP
refractive index, %Brix @ x5°C : 23.5 – x5.5
Conductivity, μS/cm @ 25°C : 130 - 19x

10. Stability and Reactivity

Stability : Stable under normal use and storage conditions. Will not occurs.

Hazardous Polymerization Conditions to Avoid : Excessive heat will release formaldehyde vapors and/or nitrogen oxides.

Materials to Avoid : Incompatible with anionic compounds, strong oxidizing agents, strong alkalis and strong mineral acids.

Hazardous Decomposition Products : Nitrous Oxides and Ammoniacal Vapors
11. **Toxicological information**

Chlorhexidine Gluconate:

LD 50, oral, mouse : 1,260 mg/Kg  
LD 50, oral, rat : 2x/Kg  

NO significant human data is available for this material.

12. **Ecological information**

Ecotoxicity : not Ecotoxic  
Environmental Fate : Not Available

13. **Disposal Considerations**

According to the federal state or local regulations.

14. **Transport Information**

Proper Shipping Name : Deodorant or Disinfectant, NOI (NMFC 57100, SUB 3; CLASS: 60)  
UN-No. : Not Applicable  
Hazard Class : Not applicable  
Packing Group : Not Applicable  
Label : Not Applicable  
Special Instructions : Not Applicable  
IMDG Classification : Not Regulated

15. **Regulatory Information**

Label : Dr. Disinfectant  
Ref. No. : MS-1100 L

16. **Other Information**

The above information is given to the best of our knowledge and belief. The data is partially taken from the literature (different sources). For further information

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