Material Safety Data Sheet

Product: BIOSCRUB

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY / UNDERTAKING

Manufacturer:
BioShields - A Division of Tulip Diagnostics Pvt. Ltd.
Plot No. M – 46, Phase III B,
Verna Industrial Estate,
Verna, Goa, 403 722,
INDIA.

Product name: BIOSCRUB
Synonyms: Antiseptic Surgical Scrub Solution

2. COMPOSITION/INFORMATION ON INGREDIENTS

The ingredients at their given percentages in this product are not considered hazardous to your health.

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS Number</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chlorhexidine Gluconate Solution</td>
<td>18472-51-0</td>
<td>20 % v/v (4 % w/v)</td>
</tr>
</tbody>
</table>

3. HAZARDS IDENTIFICATION

Principle routes of exposure:
- Oral: Can irritate the tissues of mouth, oesophagus, and other tissues of the digestive system. Symptoms of over exposure can include vomiting, diarrhea and nausea.
- Eye contact: Severe irritant to the eyes.
- Skin contact: May cause skin irritation in sensitized individuals.
- Ingestion: Ingestion of this material may cause nausea, vomiting and diarrhea.
- Inhalation: Inhalation of mist or vapors may be severely irritating to the nose and throat.

Physico – chemical properties: This product may cause eye, skin or respiratory irritation.

4. FIRST AID MEASURES

Eye contact: In the case of contact with eyes, rinse immediately with plenty of water and seek medical attention.
Ingestion: Wash mouth and throat immediately with plenty of water and seek medical attention.
Inhalation: Move to fresh air immediately. If experiencing difficulty breathing, seek medical attention.
Skin contact: Not harmful. Discontinue if skin is sensitive.

5. FIRE – FIGHTING MEASURES

Flash point (°C): Not determined.
Autoignition temperature: Not determined.
Flammable limits in air - lower (%): Not determined.
Fire fighting information:
- Suitable extinguishing media: Use water, dry chemical, carbon dioxide or chemical foam.
- Extinguishing media which must not be used for safety reasons: None.
Special protective equipment for firefighters: Wear self-contained breathing apparatus for fire fighting if necessary.

Hazardous combustion products: Carbon dioxide and carbon monoxide

6. ACCIDENTAL RELEASE MEASURES
Personal precautions: Avoid inhalation of mist or vapours. Wear eye protection if necessary.
Environmental precautions: No special environmental precautions required.
Methods for cleaning up: Flush with plenty of water.

7. HANDLING AND STORAGE
Handling:
Technical measures/precautions: No special technical protective measures required.
Safe handling advice: Avoid breathing vapours or mist. Avoid contact with eyes.

Storage:
Technical measures/storage conditions: Store at R. T. away from heat and light.
Incompatible products: Avoid contact with strong acids and bases.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION
Eye protection: Safety glasses required.
Hand protection: Not required.
Skin and body protection: Not required.
Respiratory protection: Not required.
Other/general protection: Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES
Appearance: Clear liquid
Physical state: Liquid
Colour: Orange
pH: 6.0 – 7.0
Odour: Pleasant
Water Miscibility: Miscible (Clear solution)

10. STABILITY AND REACTIVITY
Chemical stability: Stable under recommended storage conditions.
Hazard polymerization: Hazardous polymerization does not occur.
Hazardous decomposition products: Unknown on product.
Materials to avoid: Strong acids and bases.
Conditions to avoid: Direct exposure to heat and sunlight.

11. TOXICOLOGICAL INFORMATION
Local effects:
Oral: Unknown on product.
Eye irritation: Severe irritant to the eye.
Skin irritation: May cause skin irritation in sensitized individuals.
Inhalation: Inhalation of mist or vapours may cause irritation to the nose and throat.

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### Chronic toxicity
- **Oral**: Not determined.
- **Inhalation**: Not determined.
- **Dermal**: Not determined.

### Specific effects
- **Corrosive effects**: Not determined.
- **Target organ effects**: Not determined.

### 12. ECOLOGICAL INFORMATION

#### Ecotoxicity
- **Ecotoxicity effects**: This product has no known eco – toxicological effects.
- **Aquatic toxicity effects**: This product has no known aquatic toxicological effects.
- **Mobility**: Unknown on product.
- **Persistence / degradability**: Unknown on product.
- **Bioaccumulation**: Unknown on product.
- **Degradation**: Unknown on product.

### 13. DISPOSAL CONSIDERATIONS
This product may be disposed off in accordance with the regulations laid down by the local regulatory authority.

### 14. TRANSPORT INFORMATION
- **DOT**: None
- **IATA/ICAO**: None

### 15. REGULATORY INFORMATION
- **CAS No.**: Not applicable.
- **Labeling**: For External Use Only.
- **Safety Phrases**: Avoid contact with the mucous membrane. In case of contact, wash immediately with plenty of water and seek medical attention.

### 16. OTHER INFORMATION
- **Additional advice**: None
- **Literary Reference**: None

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End of Safety Data Sheet

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