Material Safety Data Sheet

Product: NUSEPT

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: NUSEPT
   Synonyms: Microbicidal Antiseptic 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>Poly (hexamethylene biguanide) hydrochloride</td>
<td>32289 – 58 – 0</td>
<td>1.0</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.

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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**: Light Green

**PH**: 6.5 – 7.5

**Odor**: 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

**Acute Toxicity**
- **Oral**: Greater than 2000mg/kg.
- **Dermal**: Greater than 2000mg/kg.

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