MATERIAL SAFETY DATA SHEET
(MSDS) January, 2002

OPTI-CIDE® Disinfectant Cleaning Solution

1 – Identification

Manufactured by: Micro-Scientific Industries, Incorporated
1225 Carnegie Street –104B
Rolling Meadows, IL 60008 USA
(General Number) (847) 454-0835

24 Hour Emergency Number — United States, Canada, Puerto Rico, U.S Virgin Islands
1-800-255-3924
International Calls: (813) 977-3668

2 – Composition

Hazardous Ingredients: OSHA PEL ACGIH TLV LIMIT %

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>LIMIT</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropanol - CAS # 67-63-0</td>
<td>400 ppm</td>
<td>980mg/m3</td>
<td>N/A</td>
<td>17.2</td>
</tr>
<tr>
<td>Ethylene Glycol - CAS # 111-76-2</td>
<td>25ppm</td>
<td>25ppm</td>
<td>N/A</td>
<td>2.9</td>
</tr>
<tr>
<td>Monobutyl Ether</td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

3 – Physical and Chemical Properties

Boiling Point: 200 F Specific Gravity (H2O=1.0) : .96 to 1.015
Vapor Pressure (mm Hg) : 0.2-4.7 Vapor Density (Air = 1) : +1
Evaporation Rate: Similar to water Solubility in Water: Complete
Freezing point : -10C Appearance and Odor: Wintergreen / mint with slight alcohol fragrance. Clear to amber in color.

4 – Fire and Explosion Hazard Data

Flash Point: 93 degrees F. Closed cup Flammable Limits: None
Extinguishing Media: N/A Special Fire Fighting Procedures: N/A
Unusual fire or explosion hazards: None

5 – Reactivity Data

Solution: Stable Conditions to Avoid: Temperatures above 120 degrees F.
Incompatibility: Concentrated acids Hazardous Polymerization: Will not occur
6 - Health Hazard Data

Routes of Entry:  
- **Eyes**: May cause some slight reversible eye irritation with direct contact  
- **Inhalation**: N/A  
- **Gastric**: May cause some gastric distress  
- **Skin**: May produce some slight redness or irritation although unlikely  

Health Hazards (Acute and Chronic): Unknown  
Carcinogenicity: NTP: No  
LARC Monographs: No  
OSHA 29 CFR 1910 Regulated: No  
Medical Conditions Generally Aggravated by Exposure: Unknown

7 - Emergency First Aid Procedures

**Skin**: If irritated, flush with water. If irritation persists, seek medical attention.  
**Eyes**: Flush with water. If irritation persists, seek medical attention. **Ingestion**: Seek medical attention. Do not induce vomiting.  
**Inhalation**: N/A

8 - Precautions for Safe Handling and Use

**Spilled material**: Flush to sanitary sewer system using plain water.  
**Waste Disposal Method**: Ordinary waste system

9 – Control Measures

**Respiratory Protection**: N/A  
**Local Exhaust**: N/A  
**Mechanical**: Usual  
**Protective Gloves and/or clothing**: N/A  
**Eye Protection**: Avoid direct contact with eyes

10 – Transportation: Not regulated

11 – Special Information

**Ratings**: HMIS: Health - 0 (Hazard Index: 4 - Severe, 3 - Serious)  
Fire - 0 (2 – Moderate, 1 – Slight, 0 – Minimum)  
Reactivity - 0

This MSDS was prepared in accordance with the requirements of the OSHA Hazard Communications Standard (29 CFR 1910.1200) and is to be used only for this product. The information contained in this sheet is believed to the best of our knowledge to be accurate.