

**MATERIAL SAFETY DATA SHEET  
(MSDS) Updated: February 2010**

## **Opti-Cide-3 Disinfectant Cleaner Solution**

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### **1 – Identification-**

**Micro-Scientific Industries, Inc.**

1225 Carnegie Street

Rolling Meadows, IL 60008 USA

General Telephone 1-888-253-2536

24 Hour Emergency Number – 1-800-255-3924

International Emergency Number: 1-813-248-0585

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**2 – Composition** This product in its ready to use form is not hazardous. The individual ingredients present within the mixture that are greater than 1% of the entire formulation and that when stored or handled by themselves, may present a hazard are:

<b>Hazardous Ingredients:</b>	<b>OSHA PEL</b>	<b>ACGIH TLV</b>	<b>LIMIT</b>	<b>%</b>
<b>Isopropanol</b> - CAS # 67-63-0	400 ppm	980mg/m3	N/A	20.85

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**3- Hazard Identification Routes of Entry:** **Eyes:** May cause some slight reversible eye irritation with direct contact. **Inhalation:** Prolonged, contained exposure to alcohol vapors may cause light-headedness and /or irritation to nose and throat **Gastric:** May cause some gastric distress **Skin:** May produce some slight redness or irritation although unlikely.

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### **4- First Aid Procedures**

**Skin:** If irritated, rinse with water. If irritation persists, seek medical attention.

**Eyes:** Flush with water. If irritation persists, seek medical attention. **Ingestion:** Seek medical attention. Drink water or milk. Induce vomiting.

**Inhalation/aspiration of liquid:** Remove to fresh air. Seek medical assistance

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### **5 - Fire and Explosion Hazard Data**

**Flash Point:** 87 degrees F. (Closed cup method- trapped alcohol vapors created by heating of liquid) **Flammable Limits:** None **Extinguishing Media:** Alcohol foam, CO2, dry chemical

**Special Fire Fighting Procedures:** NIOSH for alcohol fires **Unusual fire or explosion hazards:** As with all products containing alcohol, the alcohol vapors may be heavier than air. **Refer to section 10 for specific storage, handling and transportation exemption per Code of US Federal Regulations as an "Aqueous / alcohol" solution**

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**6- Accidental Release Measures:** Absorb spill with absorbent material and place into container for disposal. Rinse with plain water.

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**7- Storage:** Keep out of reach of children. Avoid contact with eyes. Do not store near heat or open flame. Keep container closed when not in use.

## 8 – Exposure Control / Personal Protection

**Respiratory Protection:** N/A      **Local Exhaust:** N/A      **Mechanical:** Usual

**Protective Gloves and/or clothing:** N/A

**Eye Protection:** Avoid direct contact with eyes.

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## 9 - Physical and Chemical Properties

**Liquid Boiling Point:** 188 degrees F.    **Specific Gravity** (H2O=1.0): 0.95 to 0.97

**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:** Slight alcohol fragrance. Clear in color. **PH:** 7.5

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## 10 – Stability and Reactivity Data

**Solution:** Stable      **Conditions to Avoid:** Extreme heat or open flame

**Incompatibility:** Concentrated acids      **Hazardous Polymerization:** Will not occur

**Hazardous Decomposition or by-products:** Oxides of carbon upon combustion.

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## 11- Toxicological Information

**Carcinogenicity NT:** No    **LARC Monographs:** No

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## 12- Ecological Information: N/A

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## 13- Disposal Considerations: Dispose of in accordance with local regulations.

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**14 – Storage / Transportation DOT (49 CFR 173.150e) exemption applies. “Alcohol containing solutions containing 24% or less alcohol by volume and which consists of no less than 50 % water and are stored in containers holding less than 750 US gallons are exempt from the classification as flammable and require no special shipping, storage or handling”.**

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**15- Regulatory Information:** All ingredients in this product are listed or excluded from the listing on the US Toxic Substances Act (TSCA) Chemical Substance Inventory

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**16 – Other Information:** (Hazard Index: 4- Severe, 3-Serious 2- Moderate, 1- Slight, 0 –Minimal)

**Ratings: Health -0**

**FLAMMABILITY-0**

**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.