

**MATERIAL SAFETY DATA SHEET
(MSDS) July, 2003**

OPTI-CIDE-3® Disinfectant Cleaning Solution

1 – Identification

**Micro-Scientific Industries, Incorporated
1225 Carnegie Street –104B
Rolling Meadows, IL 60008 USA
(General Number) 1-888-253-2536
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	%
Isopropanol - CAS # 67-63-0	400 ppm	980mg/m3	N/A	21.0
Ethylene Glycol - CAS # 111-76-2 Monobutyl Ether	25ppm	25ppm	N/A	-

3 - Physical and Chemical Properties

Boiling Point: 87°C **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.

4 - Fire and Explosion Hazard Data

Flash Point : 86 degrees F. Closed cup **Flammable Limits :** None
Extinguishing Media : Alcohol foam, CO2, dry chemical **Special Fire Fighting
Procedures :** NIOSH for alcohol fires **Unusual fire or explosion hazards :** Vapors may be heavier than air. Keep away from open flame

5 – 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.

OPTI-CIDE -3 ® MSDS – PAGE TWO

6 - Health Hazard Data

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

Carcinogenicity : **NTP** : No **LARC Monographs** : No
OSHA 29 CFR 1910 Regulated : No

Medical Conditions Generally Aggravated by Exposure: May cause some slight dermal irritation although unlikely

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. Drink water or milk. Induce vomiting.
Inhalation: Remove to fresh air. Seek medical assistance.

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 for ground transport except in bulk transport. Air requires hazard label due to alcohol content

11 – Special Information (Hazard Index: 4- Severe, 3-Serious 2- Moderate, 1 Slight, 0 –Minimal)

Ratings: HMIS : Health -1
Fire - 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.