

**MATERIAL SAFETY DATA SHEET
(MSDS) January, 2001**

OPTI-CIDE®

1 – Identification

Manufactured for: Micro-Scientific Industries, Incorporated

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Palatine, Illinois 60067

(General Number) (847) 358-6332

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	15.3
Ethylene Glycol - CAS # 111-76-2	25ppm	25ppm	N/A	2.9
Monobutyl Ether				

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

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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 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 - 1 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.