

# MATERIAL SAFETY DATA SHEET

MSDS DATE: 4/8/09

## IAQ 2500™

Per OSHA-recommended ANSI Z400.1-2004 standard format & in accordance with European standard format

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: IAQ 2500™  
Product Description: Ready-to-Use Disinfectant & Fungicide Concentrate  
Product Code: 8325  
Manufacturer: Fiberlock Technologies, Inc.

Address:  
Fiberlock Technologies  
150 Dascomb Road  
Andover MA, 01810

Contact Info:  
Tel: (800) 342-3755  
Fax: (978) 475-6205

Emergency Phone: 24 Hour Contact: CHEM-TEL: (800) 255-3924  
INTERNATIONAL 24 HOUR EMERGENCY Phone: 813-248-0585

### SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous:

Chemical Name	CAS#	Percent	OSHA PEL	ACGIH TLV
Diethylene glycol monobutyl ether	112-34-5	8 %	Not Established	Not Established
Alkyl dimethyl benzyl ammonium chloride (C12-18)	68391-01-5	0.105%	Not Established	Not Established
Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride (Alt CAS 6895679-6)	85409-23-0	0.105%	Not Established	Not Established

This product contains Diethylene glycol monobutyl ether which is subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

### SECTION 3: HAZARDS IDENTIFICATION

#### Potential Health Hazards:

Clear liquid, May cause irritation to eyes and skin.

**Skin Contact:** This product may cause irritation to the skin.

**Eyes Contact:** This product may cause irritation to the eyes.

**Inhalation:** Exposure via inhalation not likely. High vapor or aerosol mist concentrations may be irritating to the nose, throat and upper respiratory tract.

**Ingestion:** Ingestion may cause transient irritation of throat, stomach and gastrointestinal tract. Ingestion of large amounts may produce gastrointestinal disturbances including irritation, nausea, and diarrhea.

### SECTION 4: FIRST AID MEASURES

**Eyes:** Immediately flush eyes with water for at least 15 minutes while holding eyelids open. If irritation persists get medical attention.

**Skin:** Immediately take off all contaminated clothing. Wash contaminated clothing before reuse. For skin contact, flush with large amounts of water. If irritation persists, get medical attention.

**Ingestion:** Do not induce vomiting. If ingestion of a large amount does occur, seek medical attention. Never give anything by mouth to a victim who is unconscious or is having convulsions.

**Inhalation:** If symptoms are experienced, remove source of contamination or move victim to fresh air. If symptoms persist, get medical attention. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Seek medical attention.

**Notes to Physician:** If the product is ingested, probable mucosal damage may contraindicate the use of gastric lavage. Treat the affected person appropriately.

### SECTION 5: FIRE-FIGHTING MEASURES

Product is non-combustible

Flash point:

Autoignition Temperature:

F: 201°F  
C: 93.9°C

F: Not Established  
C: Not Established

Extinguishing Media:

Use extinguishing media appropriate for surrounding fire

Water Spray	OK
Carbon Dioxide	OK
Foam	OK
Dry Chemical	OK
Halon	NO
Other	N/A

**Fire Fighting Equipment / Instructions:** Firefighters should wear full fire-fighting turn-out gear (full Bunker gear) including NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### Accidental Release Measures:

Isolate spill or leak area immediately. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering.

**Personal Precautions:** Do not touch or walk through spilled material. Wear appropriate personal protective equipment during cleanup.

**Small Spills:** Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

**Large Spills:** Dike ahead of liquid spill for later disposal.

**Environmental Precautions:** Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

### SECTION 7: HANDLING AND STORAGE

#### Handling and Storage:

Handling Procedures: Avoid contact with skin and eyes. Avoid breathing vapors or mists of this product. Wash thoroughly after handling. As with all chemicals, good industrial hygiene practices should be followed when handling this material.

Storage Procedures: Store in a dry, well-ventilated area. Avoid freezing or excessive heat.

DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Precautions:

Use only with adequate ventilation.

**Work Hygienic Practices:** Avoid contact with skin. Do not get in eyes. Do not take internally. Avoid breathing vapors or spray mists.

**Ventilation:** Use in well-ventilated areas. Provide local exhaust to keep TLV of Section 2 ingredients below acceptable limit.

**Respiratory Protection:** Under normal conditions, respirator is not normally required. If vapors are present or irritation is experienced, NIOSH approved respiratory protection for ammoniacal vapors should be worn.

**Eye Protection:** Wear safety glasses with side shields.

**Skin Protection:** Use impervious gloves. Wear suitable protective clothing.

**Personal Protective Equipment:** Eye wash fountain and emergency showers are recommended.

**Refer to EPA Guidelines on label for first aid procedures**

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Thin liquid	<b>Solubility in Water:</b>	Total
<b>Odor:</b>	Pleasant odor	<b>Color:</b>	Light Blue
<b>Boiling Point:</b>	210°F	<b>Viscosity @ 77°F:</b>	N/A
<b>Evaporation Rate:</b>	Slower than ethyl ether	<b>Vapor Density @ 68°F:</b>	Heavier than air
<b>Vapor Pressure:</b>	20mm Hg @ 68 F	<b>Specific Gravity (H2O = 1) @ 68°F:</b>	1.0
<b>pH</b>	11.5-12.0	<b>Percent Volatile</b>	90+

**SECTION 10: STABILITY AND REACTIVITY**

**Stability:** Stable

**Conditions to Avoid:** Avoid strong oxidizing agents.

**Incompatibility:** Strong acids, alkalis and oxidizing agents.

**Hazardous Decomposition or By-Products:** Upon decomposition, this product may yield oxides of nitrogen and ammonia.

**Hazardous Polymerization:** Will not occur.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**Toxicological Information:**

**Carcinogenicity:** Not listed as carcinogenic according to IARC, NTP or OSHA.

Chemical Name	CAS No.	LD50
Tetra sodium ethylenediamine tetra acetic acid (Na4 EDTA)	64-02-8	Oral LD50 Rat: 1658 mg/kg
Diethylene glycol monobutyl ether	112-34-5	Oral LD50 Rat: 3384 mg/kg; Dermal LD50 Rabbit: 2700 mg/kg

**SECTION 12: ECOLOGICAL INFORMATION**

**Ecological Information:**

Toxic to fish. Toxic to aquatic organisms.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste Disposal Method:**

**Container Disposal:** Plastic Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. For containers 1 gallon or less: Do not reuse empty container (bottle, can, bucket). Wrap container and put in trash.

**Pesticide Disposal:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**SECTION 14: TRANSPORT INFORMATION**

**U.S. Department of Transportation**

Proper Shipping Name: Compound Cleaning, Non Regulated  
Hazard Class: "Non Regulated"  
DOT ID#: "Non Regulated"

**SECTION 15: REGULATORY INFORMATION**

**U.S. Federal Regulations:**

**TSCA (TOXIC SUBSTANCE CONTROL ACT):** All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

**CAA (CLEAN AIR ACT) - 1990 HAZARDOUS AIR POLLUTANTS:** [present] (includes mono- and di- ethers of Ethylene glycol, and Triethylene glycol as specified by referenced formula)

**CERCLA/SARA - SECTION 313 - EMISSION REPORTING:** Form R reporting required for 1.0% de minimis concentration; Chemical Category N230; (applies to R-(OCH2CH2)n-OR"" ethers, where n = 1,2, or 3""; R=alkyl C7 or less or R = phenyl or alkyl subst. phenyl; R"" = H or alkyl C7 or less, or OR"" consisting of carboxylic acid ester, sulfate, phosphate, nitrate, or sulfonate)

**CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65):** Components of this product are on the California Proposition 65 lists.

**SECTION 16: OTHER INFORMATION**

N/A

**HMS HAZARD RATING**

Health 1	Flammability 1	Physical Hazard 0	Personal Protection
HAZARD INDEX: 0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Severe			
PERSONAL PROTECTION CODE:			

This company cannot anticipate all conditions of handling and use of this product. Therefore, this company accepts no responsibility for results obtained by the application of this information, or the safety and suitability of our products either alone or in combination with other products. It is the responsibility of the user to provide a safe workplace, using the health and safety information contained herein as a guide. This company will accept no liability for damages or loss incurred from the improper handling and use of this product.