

# MATERIAL SAFETY DATA SHEET

MSDS DATE: 11/27/13

IAQ 2000™

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

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: IAQ 2000™  
Product Description: Disinfectant & Fungicide Concentrate  
Product Code: 8320  
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 (Contract Number: MIS0001450)  
INTERNATIONAL 24 HOUR EMERGENCY Phone: 813-248-0585

## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous:

Chemical Name	CAS#	Percent	OSHA PEL	ACGIH TLV
Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride	85409-23-0	2.25%	Not Established	Not Established
Alkyl dimethyl benzyl ammonium chloride (C12-18)	68391-01-5	2.25%	Not Established	Not Established

This product does not contain any toxic chemical(s) 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, Danger! Corrosive

May be corrosive to the eyes. May cause moderate to severe skin irritation. May be harmful if swallowed.

**Skin Contact:** This product may be severely irritating to the skin and may cause burns.

**Eyes Contact:** This product may be corrosive to eyes.

**Inhalation:** If misted, products may cause irritation of mucous membranes of the nose, eyes or throat and coughing or difficulty in breathing.

**Ingestion:** This product may be harmful if it is swallowed.

## SECTION 4: FIRST AID MEASURES

**Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention or advice.

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

**Ingestion:** 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.

**Inhalation:** If the material is swallowed, get immediate medical attention or advice. Do not induce vomiting.

**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

F: Not Established

C: 93.9°C

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:

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

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:** Keep the container tightly closed and in a cool, well-ventilated place. 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 irritation is experienced, a NIOSH-approved respirator should be worn.

**Eye Protection:** Wear chemical goggles and face shield.

**Skin Protection:** Work clothing sufficient to prevent all skin contact should be worn, such as coveralls and long sleeves. Use impervious gloves.

**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>	Sweet odor	<b>Color:</b>	Blue
<b>Boiling Point:</b>	212°F	<b>Viscosity @ 77°F:</b>	< 100 cps
<b>Evaporation Rate:</b>	Slower than ethyl ether	<b>Vapor Density @ 68°F:</b>	Heavier than air
<b>Vapor Pressure:</b>	N/A	<b>Specific Gravity (H2O = 1) @ 68°F:</b>	1.041
<b>pH</b>	11.7	<b>Percent Volatile</b>	84

**SECTION 10: STABILITY AND REACTIVITY**

**Stability:** Stable

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

**Incompatibility:** (Material to Avoid): This product may react with strong 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
Sodium Carbonate	497-19-8	Inhalation LC50 Rat: 2300 mg/m3/2H; Inhalation LC50 Mouse: 1200 mg/m3/2H; Oral LD50 Rat: 4090 mg/kg; Oral LD50 Mouse: 6600 mg/kg

**SECTION 12: ECOLOGICAL INFORMATION**

**Ecological Information:**

Toxic to fish. Toxic to aquatic organisms.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste Disposal Method:**

**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.

**Container Disposal:** Do not reuse empty container. Triple rinse empty container with water. Return metal drum then offer for reconditioning or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers may be disposed of in a sanitary landfill, incinerated, or if allowed by local authorities, by burning. If burned, stay out of smoke. Offer for recycling if available. For containers 1 gallon or less: Do not reuse empty container (bottle, can, bucket). Wrap container and put in trash.

**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):** This product is considered a pesticide, and is therefore excluded from the United States TSCA Regulations. There is no calculable reportable quantity (RQ) for this product.

**SARA TITLE III:** No ingredients in this product are subject to SARA 313 (40 CFR 372.65C) Supplier Notification.

**CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65):** No components of this product are on the California Proposition 65 lists.

**SECTION 16: OTHER INFORMATION**

N/A

**HMS HAZARD RATING**

Health 3	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.