

# MATERIAL SAFETY DATA SHEET

## SHOCKWAVE™ GREEN24

MSDS DATE: 03/14/12

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

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** ShockWave® Green24 Botanical and Silver Disinfectant  
**Product Description:** EPA Registered Ready-to-Use Disinfectant/Sanitizer/Cleaner/Fungicide  
**Product Code:** 8319  
**Chemical Family:** Silver Ion/Citric Acid/

**Company:**  
Fiberlock Technologies  
150 Dascomb Road  
Andover MA, 01810  
Tel: (800) 342-3755

**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: NONE

Chemical Name	CAS#	Percent	OSHA PEL	ACGIH TLV	NIOSH REL
Water	7732-18-5	>95	None	None	None
Citric Acid	77-92-9	4.85	None	None	None
Silver Ions		.0030	None	None	None

None of the ingredients is considered hazardous according to the criteria of 29CFR1910.1200 and DOT Reg 49 CFR 172. Ingredients are listed for informational purposes to assist emergency medical response personnel.

### SECTION 3: HAZARDS IDENTIFICATION

#### Potential Health Hazards:

Direct contact may cause slight eye irritation.

#### HMIS Rating

Health	0
Flammability	0
Reactivity	0

### SECTION 4: FIRST AID MEASURES

**Eyes:** Hold eyelids open and flush thoroughly with a steady, gentle stream of water for at least 15 minutes. Get medical attention if irritation persists.

**Skin:** If irritation occurs, rinse with water. Get medical attention if irritation persists. Does not stain skin.

**Ingestion:** Do not induce vomiting. If irritation occurs consult a physician.

**Inhalation:** If breathing is affected, remove victim to fresh air and call a physician

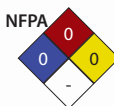
### SECTION 5: FIRE-FIGHTING MEASURES

**Flammability:** Not Flammable; Not combustible

**Flammable Limits:** N/A

**Extinguishing Media:** N/A

**Fire and Explosion Hazards:** None



### SECTION 6: ACCIDENTAL RELEASE MEASURES

**Accidental Release Measures:** Small spills: Contain spill. Flush to sanitary sewer. Rinse area thoroughly with water. Large spills: Dike or dam spill. Pump to containers or soak up with inert absorbent. Prevent runoff to creeks and waterways.

### SECTION 7: HANDLING AND STORAGE

**Handling and Storage:** Rinse with water if any irritation occurs. Keep container tightly closed when not in use.

**Storage:** Store in a cool, dry place. Do not contaminate food, feed, or drinking water. Keep from freezing. Keep out of direct sunlight.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

No special protection or precautions have been identified for using this product under directed consumer use conditions. The following recommendations are given for production facilities and for other conditions and situations where there is increased potential for accidental, large-scale or prolonged exposure.

**Hygienic Practices:** Avoid contact with eyes, skin and clothing. If irritation occurs, flush thoroughly with water after direct contact.

**Engineering Controls:** Use general ventilation to minimize exposure to vapor or mist. Eyewash station is suggested.

**Personal Protective Equipment:** None required by OSHA or NIOSH; however, to prevent irritation, wear safety glasses and use gloves if in direct contact with liquid for prolonged periods.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Thin clear liquid	<b>Solubility in Water:</b>	Total
<b>Odor:</b>	No odor	<b>Color:</b>	Clear
<b>Boiling Point:</b>	212°F	<b>VOC Content</b>	0.00%
<b>Evaporation Rate: (Water=1)</b>	<1	<b>Vapor Density (AIR = 1):</b>	>1
<b>Vapor Pressure:</b>	20mm Hg @ 68 F	<b>Specific Gravity:</b>	1
<b>pH</b>	2.0	<b>Percent Volatile</b>	98+

### SECTION 10: STABILITY AND REACTIVITY

**Stability:** Stable

**Incompatibility:** Bases, such as bicarbonates, carbonates, hydroxides, ammonia and other amines. May be slightly incompatible with aluminum and copper metals after prolonged exposure. Product is compatible with most metals including stainless steels.

**Hazardous Decomposition:** None

**Hazardous Polymerization:** None

**Conditions to Avoid:** N/A

### SECTION 11: TOXICOLOGICAL INFORMATION

This product does not contain any known or anticipated carcinogens according to the criteria of the NTP annual report on carcinogens and OSHA 29 CFR 1910.1000, Subpart Z.

**Acute Oral, Rat.....** LD50>5000 mg/Kg

**Acute Dermal, Rat .....** LD50>5000 mg/Kg

**Primary Eye Irritation..** rabbit - Category IV

**EPA Toxicity Rating.....**Category IV

**Epidemiology.....**N/A

**Teratogenicity .....**N/A

**Neurotoxicity .....**N/A

**Subchronic/Chronic Toxicity:** Does not contain any recognized carcinogens, mutagens or reproductive toxicants.

### SECTION 12: ECOLOGICAL INFORMATION

**Ecotoxicity:** None

**Environmental Fate:** Readily degraded

### SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Any method in accordance with local, state and federal laws. Best method is to recycle or reuse for intended purpose. Small amounts may be flushed to sanitary sewer with plenty of water. Consult local authorities for disposal of large amounts in public sewer. Do not dispose of into storm drain, stream, river or to ground. Rinse container thoroughly before discarding in trash.

### SECTION 14: TRANSPORT INFORMATION

**DOT Classification:** Non-hazardous

**Exceptions:** None

**Shipping Class:** Cleaning Compound

### SECTION 15: REGULATORY INFORMATION

**TSCA:** Health and Safety Reporting List: None of the chemicals are on the Health & Safety Reporting List. Chemical Test Rules: None of the chemicals are under a Chemical Test Rule. Section 12b: None of the chemicals are listed under TSCA 12b. TSCA Significant New Use Rule: None of the chemicals in this material have a SNUR under TSCA.

**CERCLA:** No RQ is assigned to the generic or broad class - silver compounds. See 50FR13456 (April 4, 1985).

**ARA 302/304:** None of the chemicals in this product have an RQ or TPQ.

**SARA 311/312:** Not reportable

**Clean Air Act:** This material does not contain any hazardous air pollutants, Class 1 Ozone depleters, or Class 2 Ozone depleters.

**Clean Water Act:** None of the chemicals in this product are listed as Hazardous Substances under the CWA, Priority Pollutants under the CWA, or Toxic Pollutants under the CWA.

**OSHA:** None of the chemicals in this product are considered hazardous by OSHA.

**CALIFORNIA PROPOSITION 65:** No components of this product are on the California Proposition 65 lists.

### SECTION 16: OTHER INFORMATION

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.