

MATERIAL SAFETY DATA SHEET

SHOCKWAVE™

MSDS DATE: 11/27/13

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

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: ShockWave™
Product Description: EPA Registered Disinfectant/Sanitizer/Cleaner/Fungicide Concentrate
Product Code: 8310
Chemical Family: Quaternary Ammonium Chloride
EPA Reg No. 61178-1-73884
Manufactured For: 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
1 - Dimethyl Benzyl Ammonium Chloride	68391-01-5	< 2.25	Not Established	Not Established
2 - Dimethyl Ethylbenzyl Ammonium Chloride	68956-79-6	< 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:

Skin Contact: Skin irritant. Prolonged or repeated contact may cause dermatitis.

Eyes Contact: Severe eye irritant. Liquid and mists may injure the eyes causing corneal damage.

Inhalation: Inhalation of vapors or mists may cause irritation of the throat and respiratory tract. High vapor concentrations may cause central nervous system effects.

Ingestion: Irritating to the mouth, throat, and gastrointestinal system. Burning, pain, and diarrhea expected with large doses.

SECTION 4: FIRST AID MEASURES

Eyes: Immediately flush eyes with large amounts of water for 15 minutes holding eyelids open. Get medical attention immediately.

Skin: Remove contaminated clothing. Flush affected areas with large quantities of water. Seek medical attention if irritation persists.

Ingestion: Drink 3-4 glasses of milk or water. Do not induce vomiting. Get medical attention immediately.

Inhalation: Remove victim to fresh air and monitor. Seek medical attention if symptoms persist.

SECTION 5: FIRE-FIGHTING MEASURES

Product is non-combustible

Flash point:

Autoignition Temperature:

F: Not flammable

F: Not Established

C: Not flammable

C: Not Established

Extinguishing Media:

Use extinguishing media appropriate for surrounding fire

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

SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus and protective clothing should be worn when fighting chemical fires. Use water spray to keep fire-exposed containers cool.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Accidental Release Measures:

Personal Precautions: Do not get in eyes. Do not take internally. Avoid skin contact. Prevent prolonged or repeated breathing of vapor or spray mists. Keep unnecessary people away. Floor may be slippery, use care to avoid falling. Remove all sources if ignition. Ventilate the area. Remove with inert absorbent.

Environmental Precautions: Keep spills and cleaning run-offs out of municipal sewers and open bodies of water. Comply with local, national and state regulations.

SECTION 7: HANDLING AND STORAGE

Handling and Storage:

Maximum Storage Temperature: 100°F (38°C), minimum 35°F (2°C).
Keep closure tight and containers upright to prevent leakage.

Product is non-combustible.

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: No special requirements. Avoid breathing mists.

Eye Protection: Chemical goggles recommended when spraying diluted product.

Skin Protection: Wear neoprene, rubber, vinyl, or nitrile gloves to prevent skin contact if prolonged skin contact is likely. Wash hands before eating, smoking or using the wash room.

Other Protective Equipment: Eyewash station should be provided nearby.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Thin liquid	Solubility in Water:	Total
Odor:	Pleasant odor	Color:	Light Blue
Boiling Point:	210°F	Viscosity @ 77°F:	60-75 Krb Units
Evaporation Rate: (Butyl Acetate=1)	Slower	Vapor Density (AIR = 1) @ 68°F:	Heavier
Vapor Pressure:	20mm Hg @ 68 F	Specific Gravity (H2O = 1) @ 68°F:	1.040
pH	11.5-12.0	Percent Volatile	90+

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable

Incompatibility: None

Hazardous Decomposition or By-Products: Will not occur.

Hazardous Polymerization: Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicological Information:

No Data Available

SECTION 12: ECOLOGICAL INFORMATION

Ecological Information:

Toxic to Fish. LC₅₀ (Rainbow Trout) = 0.930ppm, LC₅₀ (Bluegill) = 0.515ppm

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method:

Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution. Do not dump into sewers, any body of water or onto the ground.

SECTION 14: TRANSPORT INFORMATION

U.S. Department of Transportation

Proper Shipping Name: "Non Regulated"

Hazard Class: "Non Regulated"

Shipping Class: Cleaning Compound

SECTION 15: REGULATORY INFORMATION

U.S. Federal Regulations:

TSCA (TOXIC SUBSTANCE CONTROL ACT): The components of this product are listed or are exempt from listing on the EPA/TSCA inventory of chemicals.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): Releases of this material to air, land, or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304.

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

SARA TITLE III (SARA 311/312): Ingredients in this product are subject to SARA 311/312 Immediate (acute) Health Hazard Supplier Notification.

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

New Jersey Right to Know Hazardous Substance List: This product contains no components subject to reporting requirements

Canada: Workplace Hazardous materials Information System (WHMIS)-listed material: This product contains the following components subject to reporting requirements: Sodium carbonate.

SECTION 16: OTHER INFORMATION

To comply with New Jersey DOH Right-To-Know labeling law (NJAC 8:59 – 5.1 & 5.2)

CAS. No.:	CHEMICAL INGREDIENTS
7732-18-5	Water
68391-01-5	Dimethyl Benzyl Ammonium Chloride
68956-79-6	Dimethyl Ethylbenzyl Ammonium Chloride
9016-45-9	Nonionic Surfactant
497-19-8	Sodium Carbonate
(+) Contents Partially Unknown	

HMIS HAZARD RATING			
Health 2	Flammability 0	Physical Hazard 0	Personal Protection B
HAZARD INDEX: 0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Severe			

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.