



SHOCKWAVE™

Disinfectant/Sanitizer/Cleaner/Fungicide

Product Description

8310

ShockWave is an EPA-registered disinfectant, sanitizer and cleaner designed specifically for mold remediation contractors. ShockWave is designed to meet all your disinfecting, sanitizing, cleaning, and de-odorizing needs. ShockWave is strong enough to be used as a hospital grade disinfectant, and has been specifically formulated to be used on both porous and non-porous materials. ShockWave is a powerful concentrated quaternary ammonium chloride blend that yields up to 64 gallons of usable product from every gallon of concentrate. ShockWave has over 130 organism kill claims including Aspergillus niger, Penicillium spinulosum, E. coli, Salmonella, HIV, Hepatitis-B, Herpes, Poliovirus, and many other pathogenic and environmental microbial organisms.

Application Information

DIRECTIONS

WATER DAMAGE RESTORATION: This product is particularly suitable for use in water damage restoration situations to sanitize against odor causing bacteria on the following porous and semi-porous materials: carpets, carpet cushion, sub-floors, drywall, trim and frame lumber, tackless strip and paneling. Using solutions recommended, saturate affected materials with enough product to remain wet for at least 10 minutes.

SEWER BACKUP & RIVER FLOODING: During mitigation procedures, dilute 2-4 ounces of the product per gallon of water allowing for the diluting effect of absorbed water within saturated materials. Remove gross filth or heavy soil along with non-salvageable materials. Saturate all affected areas with a sprayer using a coarse spray tip, before and after cleaning and extraction.

Disinfection: Add two ounces of ShockWave per gallon of water. Remove gross filth or heavy soil. For heavily soiled areas, a pre-cleaning step is required. Apply solution with a cloth, mop, sponge, or hand pump trigger sprayer such that all surfaces remain wet for 10 minutes. Let air dry. Prepare a fresh solution for each use. ShockWave is effective in hard water up to 300 ppm hardness (calculated as CaCo3) and in the presence of organic soil (5% blood serum).

Fungicide: At 2 oz. per gallon, ShockWave is effective against the pathogenic fungi, Trichophyton mentagrophytes in 5% organic soil. Contact time - 10 minutes.

Virucidal: When used on inanimate, hard, non-porous, environmental surfaces at 2 ounces per gallon of water for a 10 minute contact time (5% organic soil), except for Poliovirus type 1 (strain): which requires a 20 minute contact time (5% organic soil) and HIV-1 which requires only a 30 second contact time.

Cleaning and Deodorization: ShockWave deodorizes garbage storage areas, empty garbage bins and cans, toilet bowls and any other odor-causing areas. Mix 2 ounces per gallon of water and apply solution to surfaces. Be sure to thoroughly wet surfaces, allow to air dry.

CAUTION!

KEEP OUT OF REACH OF CHILDREN.
KEEP CONTAINER CLOSED DURING STORAGE.

AVOID CONTACT WITH EYES, SKIN AND CLOTHING.

AVOID BREATHING OF MISTS.
USE IN WELL-VENTILATED AREA.
NOT FOR USE IN HVAC

FIRST AID

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

Eyes: Flush with large quantities of water, holding eyelids open. Seek medical attention.

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

Ingestion: Give large quantities of water. Seek medical attention immediately.

Properties

Product Specifications

Active Ingredient:	Quaternary Ammonium Chloride
Color:	Clear Blue
Odor:	Fresh Linen
Foam:	0
Flash Point:	> 200°F
pH	11.7
Shelf Life:	36 Months Min. (Original Sealed Containers)

Product Testing

EPA Registration Number:	61178-1-73884
EPA Est. Number	8325-PA-01

Available Package Sizes

1 gallon containers / 4 per case
10 oz bottles / 24 per case

ShockWave contributes toward satisfying IEQ Credit 3.3 under LEED-EB by complying with "California Code of Regulations maximum allowable VOC levels for disinfectants".



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For Technical Information call 800.342.3755

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use of this product are beyond our control. Neither Fiberlock Technologies, Inc., nor its agents shall be responsible for the use or results of use of this product or any injury, loss or damage, direct or consequential. We recommend that the prospective user determine the suitability of this product for each specific project and for the health and safety of personnel working in the area.

1045-3518

MATERIAL SAFETY DATA SHEET

(Prepared According to 29 CFR 1910.1200)

SECTION I - PRODUCT IDENTIFICATION

Fiberlock Technologies, Inc.
150 Dascomb Rd.
Andover, MA 01810
978-623-9987
978-475-6205 fax
www.fiberlock.com

ShockWave™ (8310)

Date of Preparation: September 9, 2005
Information Telephone Number; 978-623-9987
Emergency Telephone Numbers:
Weekdays: 978-623-9987
After hours, weekends & holidays: "CHEMTEL"
Emergency Contact Number: 800-255-3924

SECTION II - INGREDIENT INFORMATION

CHEMICAL NAME	CAS NO.	WT. %	PEL	TWA-TLV STEL-TLV
Water	7732-18-5	to 100		
Dimethyl Benzyl Ammonium Chloride	68391-01-5	2.25		
Dimethyl Ethylbenzyl Ammonium Chloride	68956-79-6	2.25		
Nonionic Surfactant	9016-45-9	0 to 5		
Sodium Carbonate	497-19-8	0 to 5		
Tetrasodium EDTA	64-02-8	0 to 5		
Perfume Oil	N/A	0 to 5		
Dye	N/A	0 to 5		

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 III - PHYSICAL DATA

Boiling Point (°F): 210 F.	Vapor Density (Air=1): >1	Solubility in Water: Complete
Specific Gravity: 1.040	% Volatile: 90+	Evaporation Rate (Water=1): <1
Vapor Pressure: 20mm Hg @ 68 F.	pH: 11.5-12.0	Physical Description: Thin light blue liquid with pleasant odor.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): N/A	Lower Explosion Limit: N/A	Special Firefighting Procedures: Non Flammable
Upper Explosion Limit: N/A	Extinguishing Media: N/A	Unusual Fire and Explosion Hazards: N/A

SECTION V - REACTIVITY DATA

Stability: Stable	Hazardous Polymerization: None
Hazards Decomposition Products: Will not occur.	Incompatibility (Materials to Avoid): None

SECTION VI - STORAGE AND HANDLING INFORMATION

Keep out of reach of children. For use by trained personnel only. Keep container closed during storage. For institutional and industrial use only. Avoid contact with eyes, skin and clothing. Avoid breathing of mists. Use in well-ventilated area.

SECTION VII - HEALTH HAZARDS AND FIRST AID

Effects of Overexposure: Skin: Skin irritant. Prolonged or repeated contact may cause dermatitis. Eyes: Severe eye irritant. Liquid and mists may injure the eyes causing corneal damage. Inhalation: Mists are irritating to throat, nose and lungs. Ingestion: Irritating to the mouth, throat, and gastrointestinal system. Burning, pain, and diarrhea expected with large doses.

First Aid Procedures:

Skin: Remove contaminated clothing. Flush affected areas with large quantities of water. Seek medical attention if irritation persists. Eyes: Flush with large quantities of water, holding eyelids open. Seek medical attention. Inhalation: Remove victim to fresh air and monitor. Seek medical attention if symptoms persist. Ingestion: Give large quantities of water. Seek medical attention immediately.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Respiratory Protection: No special requirements. Avoid breathing mists. Ventilation Requirements: Provide local exhaust to keep TLV of Section 2 ingredients below acceptable limit. Protective Gloves: Latex, rubber, vinyl, or nitrile Eye Protection: Chemical goggles recommended when spraying diluted product. Other Protective Equipment: Eyewash station should be provided nearby.

SECTION IX - SPILL OR LEAK PROCEDURES

Steps to be taken in Case Material is Released or Spilled: Floors will become slippery. Avoid walking in product. Keep unessential personnel away. Mop up or otherwise absorb and hold disposal. Avoid discharge to sewer or open waterways. Waste Disposal Method: Any method in accordance with local, state and federal laws. Best method is to recycle or reuse for intended purpose. Consult local authorities for disposal in public sewer. Do not dispose of into storm drain, stream, river or to ground. Rinse container thoroughly before discarding in trash.

SECTION X - REGULATORY INFORMATION

SARA Title III - Section 311/312 - Hazard Categories:

No - Fire Hazard

No - Sudden Release of Pressure Hazard

No - Reactivity Hazard

Yes - Immediate (acute) Health Hazard

No - Delayed (chronic) Health Hazard

Shipping Class: Cleaning Compound

To comply with New Jersey DOH Right-To-Know labeling law (N.J.A.C. 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

HMIS HAZARD RATING

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