SDS Date: April, 2015

Safety Data Sheet

Per GHS Standard Format

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name: ShockWave Concentrate No. 8310, No. 8311 (10oz. bottles) & No. 8310CA ShockWave California
General Use: Disinfectant, Virucide, Fungicide
Product Description: Disinfectant and Cleaner
Chemical Family: Quaternary ammonium chloride blend
EPA Registration Number: 61178-1-73884

Information on the Supplier of the Safety Data Sheet

Manufactured For:
Fiberlock Technologies, Inc.
150 Dascomb Road
Andover, MA 01810
P: 800-342-3755 F: 978-475-6205

Emergency Telephone Numbers:
CHEM TEL: (U.S.): 1-800-255-3924
(Outside the U.S.): 813-248-0585
Poison Control Center (Medical): 800-222-1222

SECTION 2: HAZARDS IDENTIFICATION

Signal Word: **DANGER**

GHS Label Statements
Hazard Statements:
Causes severe skin burns and eye damage.
Harmful if swallowed.
Toxic to aquatic life.

GHS Classifications
Health:
Acute Toxicity (Oral), Category 5
Skin Corrosion, Category 1C
Eye Corrosion, Category 1
Environmental:
Acute Hazards to the Aquatic Environment, Category 1

PRECAUTIONARY STATEMENTS

Prevention: Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe fumes, mist, vapors or spray. Avoid release to the environment. Wash hands thoroughly after handling. Keep out of reach of children.
Response: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Wash contaminated clothing before reuse. Collect spillage.
Storage: Store locked up.
Disposal: Dispose of contents/container in accordance with all local, state, and federal regulations.

EMERGENCY OVERVIEW

Physical appearance: Blue liquid
Immediate concerns: Causes irreversible eye damage and skin burns.

POTENTIAL HEALTH EFFECTS

Eyes: Corrosive, contact causes severe eye burns.
Skin: Contact causes severe skin irritation and possible burns.
Skin absorption: Harmful if absorbed through skin.
Ingestion: Harmful if swallowed.
Inhalation: Mist is irritating to nose, throat and lungs.

REPRODUCTIVE TOXICITY

Teratogenic effects: None known.

Carcinogenicity: None known.
Mutagenicity: None known.
Routes of entry: Eye, skin, ingestion.
Warning caution labels: Corrosive
Physical hazards: None expected.

SECTION 3: COMPOSITION INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight, %
N-Alkyl Dimethyl Benzyl Ammonium Chloride (C12-C18)	68391-01-5	2.37
N-Alkyl Dimethyl Ethyl Benzyl Ammonium Chloride (C12-C14)	68956-79-6	2.37
Tetrasodium Ethylenediamine Tetraacetate	64-02-8	0-5
Sodium Carbonate	497-19-8	0-5
Secondary Ethoxylated Alcohol	84133-50-6	0-5
Fragrance	N/A	<1
Dye	N/A	<0.1
Water	7732-18-5	85-95

SECTION 4: FIRST AID MEASURES

Eyes
Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Seek medical attention immediately.

Skin
Remove contaminated clothing. Immediately flush with water followed by washing with mild soap. Seek medical attention.

Inhalation
Remove victim to fresh air and monitor. Seek medical advice if irritation persists.

Ingestion
Get immediate medical attention. Do not induce vomiting unless instructed to do so by poison center or physician.

Signs and Symptoms of Overexposure
Eyes: Severe burning sensation, damage marked by burns.
Skin: Burning sensation, redness.
Ingestion: Irritation of mouth, throat, along with stomach upset, vomiting.
Inhalation: Irritation of nose, throat and lungs with coughing, sneezing, possible difficulty breathing.
Acute toxicity: Corrosive to eyes. Causes moderate to severe skin irritation. Harmful if swallowed.

Notes To Physician
Probable mucosal damage may contraindicate the use of gastric lavage.

SECTION 5: FIRE-FIGHTING MEASURES

Flammable class: None
Extinguishing media: Use an extinguishing agent suitable for the surrounding fire.
Explosion hazards: None
Fire-fighting procedures: Keep fire exposed containers cool with water stream or mist.
Hazardous decomposition products: Decomposition products may include: Carbon dioxide, carbon monoxide, nitrogen oxides.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Small spill: Avoid runoff into storm sewers and ditches which lead to waterways.
Large spill: Avoid walking in material. Prevent product from entering into stream, soil, storm sewer or other bodies of water.
Environmental Precautions
Water spill: Avoid discharges into open waterways.
Land spill: Avoid discharge to soil.
Air spill: NA = Not Applicable

General procedures: Isolate spill or leak area immediately. Keep unauthorized personnel away. Do not touch or walk through spilled material. Prevent entry into waterways, sewers, or confined areas. Absorb with dry earth, sand or other noncombustible material and transfer to containers.
Release notes: Product is toxic to fish and aquatic invertebrates.
Special protective equipment: Eye protection, rubber gloves, rubber boots to protect feet.

SECTION 7: HANDLING AND STORAGE

General Procedures
Do not contaminate water, food, or feed by storage or disposal.

Handling
Avoid contact with skin and eyes. Wash hands before eating, drinking, smoking or using toilet facilities.

Storage
Store only in original container. Do not reuse empty container. If a leaky container must be contained within another, mark the outer container to identify the contents. Store pesticides away from food, pet food, feed, and water sources. Keep this product under locked storage sufficient to make it inaccessible to children or persons unfamiliar with its proper use.

Storage Temperature
Store at ambient temperatures.

Storage Pressure
Store at ambient atmospheric pressure.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls: Use in well ventilated area.
Personal Protective Equipment
Eyes and face: Chemical splash goggles.
Skin: Rubber or other chemical resistant gloves.
Respiratory: A respirator is not needed under normal and intended conditions of product use.
Work hygienic practices: Wash with soap and water after handling. Do not eat, drink or smoke while using product.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid
Odor: Clean & Fresh
Odor threshold: Not Established
Color: Blue
pH: 11.0-12.0
Percent volatile: >90
Flash point and method: None
Flammable limits: N/A
Autoignition temperature: NA = Not Applicable
Vapor pressure: > 20 mm Hg at 20°C (68°F)
Vapor density: ~ Air = 1

Boiling point: 212°F; 100°C
Freezing point: 32°F; 0°C
Thermal decomposition: Not Available
Solubility in water: Complete
Evaporation rate: (Water =1) 1.0
Density: 8.66 at 20°C (68°F)
Specific gravity: 1.038 grams/ml. at 20°C (68°F)
Viscosity: Water thin.
(VOC): None

SECTION 10: STABILITY AND REACTIVITY

Reactivity
Stable

Conditions to Avoid
Not established

Incompatible Materials
Strong oxidizers

Hazardous Decomposition Products
None expected

Hazardous Polymerization
Hazardous polymerization will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Chemical Name	*Oral LD_{50} (rat)*	*Dermal LD_{50} (rabbit)*	*Inhalation LC_{50} (rat)*
n-Alkyl dimethyl benzyl ammonium chloride (C12-C18)	>1890 mg/kg (rat)	>2000 mg/kg (rabbit)	
N-alkyl Dimethyl Ethyl Benzyl Ammonium Chloride (C12-C14)	>500 mg/kg (rat)	>2000 mg/kg (rabbit)	
Tetrasodium ethylenediamine tetraacetate	3030 mg/kg (rat)	>5000 mg/kg (rabbit)	
Sodium Carbonate	~4090 mg/kg (rat)	N/A	~5750 mg/l
Secondary Ethoxylated Alcohol	>412 mg/kg (rat)	>14000 mg/kg (rabbit)	1.06 mg/l (rat) Aerosol

Eyes: Corrosive
Dermal ld50: > 2000 mg/kg male and female rabbits.
Skin absorption: Not Established
Oral LD_{50}: > 1890 mg/kg Male and Female rats.
Inhalation LC_{50}: Not Established

Eye effects: Corrosive to eyes. Permanent damage may occur.
Skin effects: Corrosive to skin.
Carcinogenicity
IARC: No listed substance
Corrosivity: Corrosive
Neurotoxicity: No known significant effects or critical hazards.
Genetic effects: No known significant effects or critical hazards.
Reproductive effects: No known significant effects or critical hazards.
Target organs: No known significant effects or critical hazards.
Mutagenicity: No known significant effects or critical hazards.

SECTION 12: ECOLOGICAL INFORMATION

Environmental data: Not Established
Ecotoxicological information: This product is toxic to fish and aquatic invertebrates.
Aquatic toxicity (acute): Not Established
Chemical fate information: Not Established

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal method: Attempt to use product completely in accordance with intended use. 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 your local office, or the nearest EPA regional office for guidance.
For large spills: Consult with local and state authorities for large volume disposal.
Product disposal: Any method in accordance with local, state, and federal laws. Best method is to recycle or reuse for intended purpose.
Empty container: Triple rinse container promptly after emptying. Fill container 1/4 full with water and recap. Shake for 10 seconds. Drain and repeat. Offer for recycling if available or puncture and dispose in a sanitary landfill, or by other procedures approved by state and local authorities.

SECTION 14: TRANSPORT INFORMATION

DOT

Proper Shipping Name	Not Regulated
Placards	None
Label	None
U.S. Customs Harmonization #	3808.94.0000

IATA/ICAO

Shipping Name	Not Regulated

IMDG/IMO

Shipping Name	Not Regulated

SECTION 15: REGULATORY INFORMATION

United States
DOT label symbol and hazard classification

Sara Title III (Superfund Amendments and Reauthorization Act)
311/312 Hazard Categories: Health - Acute
Fire: No **Pressure Generating:** No **Reactivity:** No **Acute:** Yes **Chronic:** No
313 Reportable Ingredients: No listed substance

302/304 Emergency Planning
Emergency Plan: No listed substance

TSCA (Toxic Substance Control Act)

TSCA Regulatory: All ingredients are listed on the TSCA Chemical Inventory.

States with Special Requirements:	**Chemical**	**Name Requirements**
	Sodium Carbonate	Pennsylvania Right To Know Substance
		New Jersey Right To Know Substance

California Proposition 65: No listed substance

Carcinogen: No listed substance

FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act): Regulated

SECTION 16: OTHER INFORMATION

NFPA	Health Hazards 3	Flammability 0	Instability 0	Special Hazard
HMIS	Health Hazards 3	Flammability 0	Physical Hazard 0	Personal Protection D

WARNING! If you scrape, sand or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear NIOSH-approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD (5323) or log on to: www.epa.gov/lead

Manufacturer Disclaimer: 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 the product either alone or in combination with other products. It is the responsibility of the employer and/or user to provide a safe workplace, using health and safety information contained herein as a guide. This company will accept no liability for damages or losses incurred from the improper handling and use of this product.