

SAFETY DATA SHEET

Date Issued : 07/24/2009
 MSDS No : Blue Wave Halt 50
 Date Revised : 06/27/2012
 Revision No : 3

Blue Wave Halt 50

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Blue Wave Halt 50
GENERAL USE: Algacide

MANUFACTURER

Lonza, Inc.
 90 Boroline Road
 Allendale, NJ 07401

DISTRIBUTOR

Blue Wave Products
 1745 Wallace Ave # B
 St Charles, IL 60174
Product Stewardship: (800) 759-0977

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS: CORROSIVE. FLAMMABLE. Harmful in contact with skin. Causes burns. Irritating to eyes.

POTENTIAL HEALTH EFFECTS

EYES: Causes eye irritation.

SKIN: Causes skin burns.

INGESTION: Harmful if swallowed.

INHALATION: May be harmful if inhaled.

ROUTES OF ENTRY: Eyes, Skin, Inhalation, Ingestion

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS	EINECS
Didecyl Dimethyl Ammonium Chloride	50	7173-51-5	--
Ethanol	10	64-17-5	200-578-6
Water	40	7732-18-5	231-791-2

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

SKIN: Immediately wash skin with plenty of soap and water for 15 minutes while removing contaminated clothing and shoes. Get immediate medical attention. Launder clothing before re-use and discard shoes that cannot be thoroughly cleaned.

INGESTION: Call a physician immediately. Clean mouth with water. Drink plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

INHALATION: Move to fresh air. Call a physician immediately. If breathing is irregular or stopped, administer artificial respiration.

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5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: (109°F) SETA Flash Tester CC

FLAMMABLE LIMITS: Not known to Not known

AUTOIGNITION TEMPERATURE: Not Known

EXTINGUISHING MEDIA: Dry powder, water spray, foam.

HAZARDOUS COMBUSTION PRODUCTS: Heating or fire can release toxic gas.

FIRE FIGHTING PROCEDURES: Use water to cool containers exposed to fire.

FIRE FIGHTING EQUIPMENT: Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and protective clothing.

6. ACCIDENTAL RELEASE MEASURES

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Avoid runoff to waterways and sewers.

GENERAL PROCEDURES: Contain and/or absorb spill with clay, soil or commercially available absorbents. Block any potential routes to water systems (e.g., sewers, streams, lakes, etc.)

SPECIAL PROTECTIVE EQUIPMENT: Use respirator when performing operations involving potential exposure to vapor or mist.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Avoid contact with eyes, skin, and clothing. Provide sufficient air exchange and/or exhaust in work rooms.

HANDLING: Highly flammable. Keep away from sources of ignition. No smoking. Take precautions against static discharges.

STORAGE: Store containers in compliance with the most recent NFPA code (NFPA 30). Ground all containers prior to pouring. Keep containers closed when not in use. Do not contaminate drinking water, food or feed by storage or disposal.

STORAGE TEMPERATURE: Less than 140.0 degrees F (less than 60.0 C)

COMMENTS: Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		SupplierOEL	
Chemical Name		ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
Ethanol	TWA	1000 ppm	1900 mg/m ³	1000 ppm	1884 mg/m ³	NL	NL
	STEL	ppm	mg/m ³	ppm	mg/m ³	NL	NL

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ENGINEERING CONTROLS: In processes where mists or vapors may be generated, proper ventilation must be provided in accordance with good ventilation practices.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear tightly fitting safety goggles and face shield.

SKIN: Nitrile rubber gloves with break through time greater than 480 min

RESPIRATORY: In misty conditions, use a respirator with approved filter.

PROTECTIVE CLOTHING: Rubber or plastic apron and boots.

WORK HYGIENIC PRACTICES: Avoid contact with skin, eyes and clothing. Wash after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

ODOR: Ethanol-like

pH: 6.5 to 9.0 10% active solution

VAPOR PRESSURE: Not Known

VAPOR DENSITY: 0.93 g/cm³

Notes: at 77 degrees F (25 C)

BOILING POINT: Not Known

FREEZING POINT: -20°C

FLASHPOINT AND METHOD: (109°F) SETA Flash Tester CC

SOLUBILITY IN WATER: Soluble

EVAPORATION RATE: Not Known

VISCOSITY #1: < 100 mPa. s. at 25°C (77°F)

10. STABILITY AND REACTIVITY

STABILITY: Stable.

POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: None known.

HAZARDOUS DECOMPOSITION PRODUCTS: Nitrogen oxides (NOX); hydrochloric acid; carbon oxides.

INCOMPATIBLE MATERIALS: Strong oxidizing or reducing agents.

11. TOXICOLOGICAL INFORMATION

ACUTE

DERMAL LD₅₀: 4300 mg/kg (rabbit)

ORAL LD₅₀: 450 mg/kg (rat)

EYE EFFECTS: Severely irritating (rabbit).

SKIN EFFECTS: Corrosive (rabbit) 4 hr, Method:OECD Test Guideline 404

SENSITIZATION: (guinea pig) Not a sensitizer.

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12. ECOLOGICAL INFORMATION

AQUATIC TOXICITY (ACUTE)

48-HOUR EC₅₀: .94 mg/L (Daphnia Magna)

CHEMICAL FATE INFORMATION: Biodegradability:

OECD Confirmatory Test: 91%; exposure time 24-70 days; Method OECD 303A

Modified Sturm Test: Concentration 10 mg/l; exposure time 28 days; Readily biodegradeable 72%; Method: OECD 301B

Die-Away Test: concentration: 0.06 mg/l; Exposure time 28 days; 93.3%

COMMENTS: Data is based on Didecyl dimethylammonium chloride (CAS No. 7173-51-5)

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose of in accordance with applicable local, state, and federal regulations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Disinfectants, Liquid, Corrosive, N.O.S (Didecyl dimethylammonium chloride)

PRIMARY HAZARD CLASS/DIVISION: 8

UN/NA NUMBER: 1903

PACKING GROUP: II

OTHER SHIPPING INFORMATION: DOT exception 173.154 - this product qualifies as a Limited Quantity when inner packaging does not exceed 0.3 gallons.

15. REGULATORY INFORMATION

UNITED STATES

DOT LABEL SYMBOL AND HAZARD CLASSIFICATION



Corrosive

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: This act requires reporting under the Community Right-To-Know provisions due to the inclusion of the following components:

N,N-Didecyl-N,N-dimethylammonium chloride - (CAS 7273-51-5) Hazard Category A

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Ethanol (CAS 64-17-5) Hazard Category F

FIRE: Yes **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** No

313 REPORTABLE INGREDIENTS: None.

302/304 EMERGENCY PLANNING

EMERGENCY PLAN: None known.

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA RQ: 1000 lbs.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
Didecyl Dimethyl Ammonium Chloride	7173-51-5
Water	7732-18-5

TSCA STATUS: All ingredients in this mixture are in compliance with TSCA.

STATES WITH SPECIAL REQUIREMENTS

Chemical Name	Requirements
Ethanol	Ethyl Alcohol: New Jersey Workplace Hazard New Jersey Special Hazard Pennsylvania Workplace Hazard CA Proposition 65 Massachusetts Hazardous Substance New York City Hazardous Substance

CALIFORNIA PROPOSITION 65: This product contains substances which are known to the State of California to cause cancer and/or birth effects or reproductive harm.

16. OTHER INFORMATION

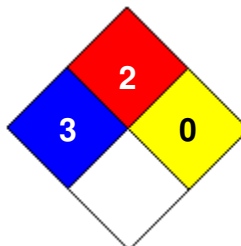
REVISION SUMMARY: This MSDS replaces the 08/30/2011 MSDS. Revised: **Section 2:** CARCINOGENICITY, EMERGENCY OVERVIEW - IMMEDIATE CONCERNS POTENTIAL HEALTH EFFECTS (SKIN, INHALATION, INGESTION), ROUTES OF ENTRY. **Section 4:** EYES, INGESTION, INHALATION, NOTES TO PHYSICIAN. **Section 5:** EXPLOSION HAZARDS, EXTINGUISHING MEDIA, HAZARDOUS COMBUSTION PRODUCTS. **Section 6:** COMMENTS, GENERAL PROCEDURES, SPECIAL PROTECTIVE EQUIPMENT, WATER SPILL. **Section 7:** GENERAL PROCEDURES, HANDLING, STORAGE TEMPERATURE. **Section 8:** PERSONAL PROTECTIVE EQUIPMENT (EYES AND FACE, RESPIRATORY, PROTECTIVE CLOTHING), WORK HYGIENIC PRACTICES. **Section 9:** APPEARANCE, SPECIFIC GRAVITY, VAPOR DENSITY, VISCOSITY #1, (VOC). **Section 10:** HAZARDOUS DECOMPOSITION PRODUCTS. **Section 11:** ACUTE (ORAL LD₅₀ (rat)), EYE EFFECTS, MUTAGENICITY, REPRODUCTIVE EFFECTS, SKIN EFFECTS, CORROSIVITY. **Section 12:** CHEMICAL FATE INFORMATION, COMMENTS, AQUATIC TOXICITY (ACUTE) (96-HOUR LC₅₀, Notes). **Section 15:** CERCLA REGULATORY, CERCLA RQ, REPORTABLE SPILL QUANTITY, CALIFORNIA PROPOSITION 65.

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NFPA CODES



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