

# MATERIAL SAFETY DATA SHEET

Date Issued: 07/07/2008

MSDS No: Blue Wave Black Zapper

Date Revised: 08/19/2008

Revision No: 2

## Blue Wave Black Zapper

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Blue Wave Black Zapper**GENERAL USE:** Algaecide**PRODUCT DESCRIPTION:** Copper Alkanolamine Complex

#### DISTRIBUTOR

Blue Wave Products  
1745 Wallace Ave # B  
St Charles IL 60174

**Product Stewardship:** (800) 759-0977

### 2. HAZARDS IDENTIFICATION

#### POTENTIAL HEALTH EFFECTS

**EYES:** Can cause severe eye irritation.**SKIN:** Corrosive to living tissue.**INGESTION:** Harmful if swallowed.**INHALATION:** Causes respiratory tract irritation.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS	EINECS
Copper,[u-[carbonate(2-)0:0]] Dihydroxydi-	3.07	012069-69-1	235-113-6
Alkyl Dimethylbenzylammonium Chloride	26.34	068424-85-1	270-325-2
Ethanol	> 0.01	000064-17-5	200-578-6
Ethanol, 2-amino-	> 0.01	000141-43-5	205-483-3
Ethanol, 2, 2', 2''-nitrilotris	> 0.01	000102-71-6	203-049-8

### 4. FIRST AID MEASURES

**EYES:** Remove victim from source of contamination or exposure to nearest eyewash or other source of clean water. In case of contact, hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes.

**SKIN:** Rinse with tepid water for at least 15 minutes.

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**INGESTION:** Call poison control center or doctor immediately for treatment advice. If conscious, give one or two glasses of water or milk to drink. Do not induce vomiting unless told to do so by the poison control center or doctor.

**INHALATION:** Remove victim to fresh air. If breathing is difficult, administer oxygen.

**COMMENTS:** Contact a physician or poison control if symptoms develop.

### 5. FIRE FIGHTING MEASURES

**FLASHPOINT AND METHOD:** Not Applicable

**FLAMMABLE LIMITS:** 0 to 0

**EXTINGUISHING MEDIA:** Use extinguishing media appropriate for surrounding fire.

**HAZARDOUS COMBUSTION PRODUCTS:** Combustion products are toxic.

### 6. ACCIDENTAL RELEASE MEASURES

**GENERAL PROCEDURES:** Contain and/or absorb spill with inert material (e.g. sand, vermiculite). May flush small amount to sewer. Avoid release to the environment.

### 7. HANDLING AND STORAGE

**HANDLING:** Keep out of reach of children. Wash hands thoroughly after handling. Avoid contact with eyes. Wash hands before eating, drinking or smoking. Avoid contact with skin and clothing.

**STORAGE:** Store in a cool dry place.

**COMMENTS:** Use safe chemical handling procedures suitable for the hazards presented by this material.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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### EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		SupplierOEL	
Chemical Name		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Ethanol	TWA	1000 ppm	1900 mg/m <sup>3</sup>	1000 ppm	1884 mg/m <sup>3</sup>	NL	NL
	STEL	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	NL	NL
Ethanol, 2-amino-	TWA	3 ppm <sup>[1]</sup>	6 mg/m <sup>3</sup> <sup>[1]</sup>	3 ppm	7.5 mg/m <sup>3</sup>	NL ppm	NL mg/m <sup>3</sup>
	STEL	ppm	mg/m <sup>3</sup>	6 ppm	15 mg/m <sup>3</sup>	NL ppm	NL mg/m <sup>3</sup>
<b>Footnotes:</b>							
1. NL = Not Listed							

**ENGINEERING CONTROLS:** Local exhaust acceptable. Special exhaust not required.

### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Safety glasses with side shields or goggles.

**SKIN:** Chemical-resistant gloves.

**RESPIRATORY:** General room ventilation is normally adequate.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Liquid

**ODOR:** Mild.

**APPEARANCE:** Blue viscous liquid.

**pH:** 6 to 8

**VAPOR PRESSURE:** N/A

**VAPOR DENSITY:** > 1

**BOILING POINT:** (212°F)

**FLASHPOINT AND METHOD:** Not Applicable

**SOLUBILITY IN WATER:** Soluble

**EVAPORATION RATE:** < 1

**SPECIFIC GRAVITY:** 1.050

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### 10. STABILITY AND REACTIVITY

**STABILITY:** Stable.

**POLYMERIZATION:** Will not occur.

**CONDITIONS TO AVOID:** Contact with clay.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Hydrogen chloride fumes, oxides of carbon and nitrogen.

**INCOMPATIBLE MATERIALS:** Strong acids.

### 11. TOXICOLOGICAL INFORMATION

**COMMENTS:** None available.

### 12. ECOLOGICAL INFORMATION

**COMMENTS:** None available.

### 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:** Corrosive Liquid N.O.S. (Copper Triethanolamine Complex)

**PRIMARY HAZARD CLASS/DIVISION:** 8

**UN/NA NUMBER:** UN 1760

**PACKING GROUP:** III

**OTHER SHIPPING INFORMATION:** DOT exception 173.154 - this product qualifies as a Consumer Commodity (ORM-D) when inner packaging does not exceed 1 gallons.

### 15. REGULATORY INFORMATION

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### UNITED STATES

#### TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
Copper,[u-[carbonate(2-)0:0]] Dihydroxydi-	012069-69-1
Alkyl Dimethylbenzylammonium Chloride	068424-85-1
Ethanol	000064-17-5
Ethanol, 2-amino-	000141-43-5
Ethanol, 2, 2', 2''-nitrilotris	000102-71-6

#### 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
Ethanol, 2, 2', 2''-nitrilotris	Massachusetts Hazardous Substance

**FIFRA (FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT):** This is an EPA-registered product.

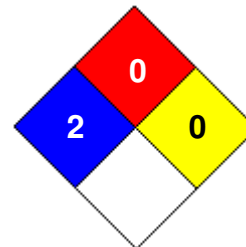
## 16. OTHER INFORMATION

**REVISION SUMMARY:** Revision #: 2 This MSDS replaces the July 17, 2008 MSDS. Any changes in information are as follows:

#### HMIS RATING

HEALTH:	2
FLAMMABILITY:	0
PHYSICAL HAZARD:	1
PERSONAL PROTECTION:	

#### NFPA CODES



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