

# MATERIAL SAFETY DATA SHEET

Date Issued: 01/06/2011

MSDS No: Blue Wave 3 in Tablets

## Blue Wave 3" Tablets

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Blue Wave 3" Tablets  
**GENERAL USE:** Swimming Pool Sanitizer  
**PRODUCT DESCRIPTION:** Trichloro-s-triazinetrione  
**CHEMICAL FAMILY:** Isocyanurate  
**GENERIC NAME:** Trichloroisocyanuric Acid  
**ACTIVE INGREDIENT(S):** Trichloro-s-triazinetrione

#### DISTRIBUTOR

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

### 2. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

**PHYSICAL APPEARANCE:** White tablet

**IMMEDIATE CONCERNS:** DANGER. Corrosive: Causes irreversible eye damage and skin burns. May be harmful if absorbed through skin. May be fatal if inhaled. Harmful if swallowed.

#### POTENTIAL HEALTH EFFECTS

**EYES:** Causes irreversible eye damage.

**SKIN:** Causes skin burns. May be harmful if absorbed through skin.

**INGESTION:** Harmful if swallowed.

**INHALATION:** May be fatal if inhaled.

**ROUTES OF ENTRY:** Eyes, Skin, Respiratory and Digestive Tract

**CANCER STATEMENT:** None

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt. %	CAS	EINECS
Trichloro-s-triazinetrione	99	87-90-1	201-782-8

### 4. FIRST AID MEASURES

**EYES:** Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**SKIN:** Remove contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.

**INGESTION:** Drink plenty of water in small gulps. Do not induce vomiting unless told to do so by the poison control

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center or doctor. Never give anything by mouth to an unconscious person.

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**ADDITIONAL INFORMATION:** General information: Remove contaminated clothing and shoes immediately and launder thoroughly before reusing. Call a poison control center or doctor immediately for treatment advice.

### 5. FIRE FIGHTING MEASURES

**FLASHPOINT AND METHOD:** Not Flammable

**FLAMMABLE LIMITS:** 0 to 0

**FIRE FIGHTING PROCEDURES:** Extinguish with large amounts of water. Do not use dry chemicals, carbon dioxide or halogenated agents.

**FIRE FIGHTING EQUIPMENT:** Firefighters should wear full protective clothing and SCBA when potential for exposure to products of combustion exists. Use large amounts of water. Small quantities of water with large quantities of hot product may lead to fire or explosion. Do not use CO<sub>2</sub>, dry chemical, foam or halon.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Decomposes at 225 Deg C. Keep inflammable materials away from product. Highly reactive oxidizing materials may result in fire.

**COMMENTS:** The product is not combustible, however it promotes fire. Containers close to fire should be transferred to a safe place. Heat causes increase in pressure and risk of bursting. Collect contaminated firefighting water separately. Do not discharge into drains.

### 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Sweep up spill with a dry broom and contain. Do not allow material to sit on ground and become moist. Do not contaminate with water, organics or nitrogen compounds.

#### ENVIRONMENTAL PRECAUTIONS

**WATER SPILL:** Do not discharge into drains or waterways.

### 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** Use with adequate ventilation.

**HANDLING:** Keep away from sources of ignition. Heating leads to increase of pressure and danger of bursting.

Keep away from moisture. Avoid dust formation.

**STORAGE:** Keep containers tightly closed in a dry, well-ventilated area. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Protect from atmospheric moisture and water. Product is hygroscopic. Keep under dry inert gas.

**STORAGE TEMPERATURE:** Less than 25 degrees Celsius.

**COMMENTS:** Do not store together with:

Organic materials, combustible materials, ammonia, ammonium compounds, alkalies, oxidizing agents, reducing agents, acids.

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### 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 <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Trichloro-s-triazinetrione	TWA	Not Established	Not Established	Not Established	Not Established	[1]	[1]
	STEL	Not Established	Not Established	Not Established	Not Established		
<b>Footnotes:</b>							
1. The TLV for Chlorine is 0.5 ppm (1.5 mg/m <sup>3</sup> ) TWA and 1ppm STEL.							

**ENGINEERING CONTROLS:** Local exhaust with circulation to the outside is needed in the event of decomposition which produces fumes and chlorine gas.

#### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Wear chemical safety glasses or goggles.

**SKIN:** Neoprene gloves. Wash thoroughly after handling.

**RESPIRATORY:** For product manufacturing or emergency situations, wear an OSHA-NIOSH approved full facepiece respirator equipped with chemical cartridge.

**PROTECTIVE CLOTHING:** Neoprene apron and impervious clothing.

**WORK HYGIENIC PRACTICES:** Provide safety shower and eyewash station in the work area.

#### COMMENTS: Exposure limits for Air Contaminants (OSHA)

Particulates not otherwise regulated: Total dust; TWA 15 mg/m<sup>3</sup>; Respirable fraction: TWA 5 mg/m<sup>3</sup>

#### Exposure Limits for Air Contaminants (ACGIH)

Particulates (insoluble or poorly soluble) - Respirable Particles: TWA 3 mg/m<sup>3</sup>; Inhalable Particles: TWA 10 mg/m<sup>3</sup>

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical Name	Solubility in Water	Specific Gravity
Trichloro-s-triazinetrione	1.28 g/100 mg @ 25 deg C	2.07

**PHYSICAL STATE:** Solid

**ODOR:** Chlorine.

**APPEARANCE:** White tablet.

**pH:** 2.8

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**VAPOR PRESSURE:** 99**VAPOR DENSITY:** 99**BOILING POINT:** NA = Not Applicable**FREEZING POINT:** NA = Not Applicable**MELTING POINT:** (437°F) to (446°F)**FLASHPOINT AND METHOD:** Not Flammable**SOLUBILITY IN WATER:** 0.0026 to 0.22 at (77°F)**DENSITY:** 17.52 at (68°F)**SPECIFIC GRAVITY:** 2.070**(VOC):** 99.000**COMMENTS:** Acute Effects: Corrosive to eyes and irritating to skin. Irritating to nose and throat.

## 10. STABILITY AND REACTIVITY

**STABILITY:** Stable.**POLYMERIZATION:** Product will not undergo polymerization.**CONDITIONS TO AVOID:** Avoid heat, open flames and other sources of ignition. Protect against humidity. Exothermic reactions are possible in the even of contact with incompatible substances.**HAZARDOUS DECOMPOSITION PRODUCTS:** Nitrogen, Hydrogen chloride (HCl), Nitrogen Trichloride, Chlorine, Isocyanic Acid**INCOMPATIBLE MATERIALS:** Avoid contact with organic materials, combustible materials, ammonia, ammonium compounds, alcalis, oxidizing agents, reducing agents, acids.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE

**DERMAL LD<sub>50</sub>:** > 2000 mg/kg (rat)**Notes:** IUCLID**ORAL LD<sub>50</sub>:** 460 mg/kg (rat)**Notes:** IUCLID

### CARCINOGENICITY

**IARC:** Not Applicable**NTP:** Not Applicable**OSHA:** Not Applicable

## 12. ECOLOGICAL INFORMATION

### AQUATIC TOXICITY (ACUTE)

**96-HOUR LC<sub>50</sub>:** 0.3 mg/L (Lepomis macrochirus)**48-HOUR EC<sub>50</sub>:** 1.5 TLM ppm Oryzlas Latipes

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**Notes:** Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment. Do not discharge product into aquatic environment, drains, or sewage treatment plants.

### 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:** Trichloroisocyanuric Acid Dry

**PRIMARY HAZARD CLASS/DIVISION:** 5.1

**UN/NA NUMBER:** UN 2468

**PACKING GROUP:** II

**NAERG:** 140

**LABEL:** 5.1 Oxidizer

**SPECIAL SHIPPING NOTES:** DOT Special Provisions: IB8, IP4, T3, TP33

Packaging Exceptions: 152

Nonbulk: 212

Bulk: 240

### 15. REGULATORY INFORMATION

#### UNITED STATES

##### CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

**CERCLA REGULATORY:** Not listed.

**CERCLA RQ:** Not listed.

**REPORTABLE SPILL QUANTITY:** N/A (for chlorine RQ=10)

##### TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
Trichloro-s-triazinetrione	87-90-1

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

#### REGULATIONS

**STATE REGULATIONS:** The ingredient for CAS #87-90-1 is listed on the following state lists:

New Jersey Worker and Community Right to Know Act

Pennsylvania Hazardous Substance List

**CALIFORNIA PROPOSITION 65:** Not Applicable

**CARCINOGEN:** Not Applicable

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

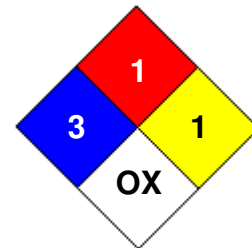
### 16. OTHER INFORMATION

REVISION SUMMARY: New MSDS

#### HMIS RATING

HEALTH:	<input type="checkbox"/>	3
FLAMMABILITY:		1
PHYSICAL HAZARD:		1
PERSONAL PROTECTION:		F

#### NFPA CODES



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