

MATERIAL SAFETY DATA SHEET

Date Issued: 01/06/2011

MSDS No: Blue Wave Sticks

Blue Wave Sticks

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Blue Wave Sticks**GENERAL USE:** Swimming Pool Sanitizer**ACTIVE INGREDIENT(S):** Trichloro-s-triazinetriene**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-triazinetriene	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 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.

MATERIAL SAFETY DATA SHEET

Date Issued: 01/06/2011

MSDS No: Blue Wave Sticks

Blue Wave Sticks

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 CO₂, 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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

MATERIAL SAFETY DATA SHEET

Date Issued: 01/06/2011

MSDS No: Blue Wave Sticks

Blue Wave Sticks

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
Trichloro-s-triazinetriene	TWA	Not Established	Not Established	Not Established	Not Established	[1]	[1]
	STEL	Not Established	Not Established	Not Established	Not Established		
Footnotes: 1. The TLV for Chlorine is 0.5 ppm (1.5 mg/m ³) 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/m³; Respirable fraction: TWA 5 mg/m³

Exposure Limits for Air Contaminants (ACGIH)

Particulates (insoluble or poorly soluble) - Respirable Particles: TWA 3 mg/m³; Inhalable Particles: TWA 10 mg/m³

9. PHYSICAL AND CHEMICAL PROPERTIES

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

PHYSICAL STATE: Solid

ODOR: Chlorine.

APPEARANCE: White tablet.

pH: 2.8

VAPOR PRESSURE: 99

VAPOR DENSITY: 99

BOILING POINT: NA = Not Applicable

MATERIAL SAFETY DATA SHEET

Date Issued: 01/06/2011

MSDS No: Blue Wave Sticks

Blue Wave Sticks

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 event 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, alkalis, oxidizing agents, reducing agents, acids.

11. TOXICOLOGICAL INFORMATION

ACUTE

DERMAL LD₅₀: > 2000 mg/kg (rat)**Notes:** IUCLID**ORAL LD₅₀:** 460 mg/kg (rat)**Notes:** IUCLID

CARCINOGENICITY

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

12. ECOLOGICAL INFORMATION

AQUATIC TOXICITY (ACUTE)

96-HOUR LC₅₀: 0.3 mg/L (Lepomis macrochirus)**48-HOUR EC₅₀:** 1.5 TLM ppm Oryzias Latipes**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.

MATERIAL SAFETY DATA SHEET

Date Issued: 01/06/2011

MSDS No: Blue Wave Sticks

Blue Wave Sticks

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-triazinetriene	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

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

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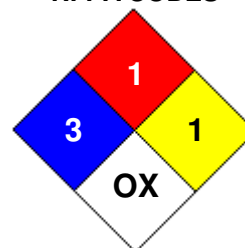
MSDS No: Blue Wave Sticks

Blue Wave Sticks

16. OTHER INFORMATION

REVISION SUMMARY: New MSDS**HMIS RATING**

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

NFPA CODES

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