

# MATERIAL SAFETY DATA SHEET

Date Issued: 07/01/2008

MSDS No: Blue Wave Chlorinating Granules for Spas

Date Revised: 08/20/2008

Revision No: 2

## Blue Wave Chlorinating Granules for Spas

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Blue Wave Chlorinating Granules for Spas**GENERAL USE:** Spa Sanitizer**PRODUCT DESCRIPTION:** Sodium Dichloro-s-triazinetione Dihydrate**MOLECULAR FORMULA:** C<sub>3</sub>Cl<sub>2</sub>N<sub>3</sub>O<sub>3</sub>Na·2H<sub>2</sub>O**ACTIVE INGREDIENT(S):** Sodium Dichloro-s-triazinetione Dihydrate

#### 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 granular product**IMMEDIATE CONCERNS:** Corrosive. Causes irreversible eye damage. May be fatal if inhaled. Harmful if swallowed or absorbed through skin. Will burn with evolution of chlorine and equally toxic gases. Do not get in eye, on skin, or on clothing. Avoid breathing dust and fumes.

#### POTENTIAL HEALTH EFFECTS

**EYES:** Dust and process vapors may irritate eyes.**SKIN:** Initially non-irritating but prolonged contact will produce chemical burns. Burns are also induced when moisture is added.**INGESTION:** May cause Irritation or burns to the gastrointestinal tract.**INHALATION:** Irritating to nose, mouth, throat and lungs. May cause burns to respiratory tract.

#### SIGNS AND SYMPTOMS OF OVEREXPOSURE

**ACUTE TOXICITY:** Repeated exposure may cause eye, nose, throat and pharynx irritation.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS	EINECS
Sodium Dichloro-s-triazinetione Dihydrate	100	051580-86-0	- -

**COMMENTS:** 55.0 - 56.0% active chlorine

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### 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 soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

**INGESTION:** Immediately drink large quantities of water. Do NOT induce vomiting. Call a physician at once. Do not give anything by mouth to an unconscious person.

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

**ADDITIONAL INFORMATION:** Chronic Effect: Prolonged contact may result in irritation to eyes, skin and mucous membranes.

### 5. FIRE FIGHTING MEASURES

**FLASHPOINT AND METHOD:** Not Applicable

**FLAMMABLE LIMITS:** 0 to 0

**Notes:** Non-flammable.

**EXTINGUISHING MEDIA:** Use massive amounts of water.

**EXPLOSION HAZARDS:** Highly reactive oxidizing materials may result in fire.

**FIRE FIGHTING PROCEDURES:** Saturate with massive quantities of water to extinguish thermal decomposing products. If possible, isolate them to an open area, wearing self-contained breathing apparatus with full facepiece and protective clothing.

### 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.

### 7. HANDLING AND STORAGE

**HANDLING:** Keep away from moisture, sunlight and high temperatures. Keep away from flammable liquids, combustibles and oxidizers. Avoid dust formation.

**STORAGE:** Store in a cool, dry, well-ventilated area. Do not store at temperatures above 60 deg C/140 deg F.

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

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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>
Sodium Dichloro-s-triazinetriene Dihydrate	TWA	Not Established		Not Established		[1]	[1]
	STEL	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:** Impervious gloves.

**RESPIRATORY:** If needed, use OSHA-NIOSH approved respirator for dusts, mists, and fumes with TLV not less than 0.05 mg/m<sup>3</sup>.

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

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

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Solid

**ODOR:** Mild chlorine.

**APPEARANCE:** White granular.

**pH:** 6.5

**VAPOR PRESSURE:** 100

**VAPOR DENSITY:** 100

**BOILING POINT:** Not Applicable

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**FREEZING POINT:** Not Applicable

**FLASHPOINT AND METHOD:** Not Applicable

**SOLUBILITY IN WATER:** 26.2 g/100ml H<sub>2</sub>O at 25 degrees C

**EVAPORATION RATE:** Not Applicable

**SPECIFIC GRAVITY:** 1.95

**VISCOSITY:** Not Applicable

**(VOC):** 100.000

### 10. STABILITY AND REACTIVITY

**STABILITY:** Stable under dry and normal conditions.

**POLYMERIZATION:** Will not occur.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Nitrogen trichloride, chlorine, cyanic acid

**INCOMPATIBLE MATERIALS:** Avoid contact with organic matter. Avoid contact with easily chlorinated or oxidized materials which may result in fire.

Avoid contact with ammonia, ammonium salts, urea or similar compounds which contain nitrogen. This may form nitrogen trichloride, a highly explosive compound.

Avoid contamination with oils and greases which may cause decomposition with the formation of CO<sub>2</sub> and Cl<sub>2</sub>.

This product may form an explosive mixture with calcium hypochlorite.

In a formulation containing this material as the major component, alkaline materials such as soda ash (Na<sub>2</sub>CO<sub>3</sub>) in the presence of moisture may cause violent decomposition and fire.

Avoid contact with alcohols, ethers, and solvents (toluene, xylene, turpentine, etc.)

Avoid contact with small amounts of water. (Do not add water to chemical, add chemical to water.)

### 11. TOXICOLOGICAL INFORMATION

**COMMENTS:** Acute Toxicity: Oral LD<sub>50</sub> 738 mg/kg (rat) 1355 (male) 1400 (female)

### 12. ECOLOGICAL INFORMATION

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### AQUATIC TOXICITY (ACUTE)

48-HOUR EC<sub>50</sub>: 3.19 TLM ppm Oryzlas Latipes

**GENERAL COMMENTS:** This product is toxic to fish and aquatic life.

## 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:** Not restricted by DOT

**SPECIAL SHIPPING NOTES:** DOT Special Provision #28 states "The dihydrated sodium salt of dichlorisocyanuric acid is not subject to the requirements of this subchapter."

## 15. REGULATORY INFORMATION

### UNITED STATES

#### TSCA (TOXIC SUBSTANCE CONTROL ACT)

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

#### REGULATIONS

**STATE REGULATIONS** Massachusetts Hazardous Substance - Yes  
Pennsylvania Hazardous Substance - Yes

**CALIFORNIA PROPOSITION 65:** NA = Not Applicable

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

## 16. OTHER INFORMATION

**REVISION SUMMARY:** Revision #: 2 This MSDS replaces the June 23, 2008 MSDS. Any changes in information are as follows:

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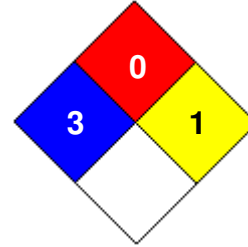
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### HMIS RATING

HEALTH:	3
FLAMMABILITY:	0
PHYSICAL HAZARD:	1
PERSONAL PROTECTION:	

### NFPA CODES



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