MATERIAL SAFETY DATA SHEET

Date Issued: 07/01/2008
MSDS No: Blue Wave Sanitizing Granules
Date Revised: 08/20/2008
Revision No: 2

Blue Wave Sanitizing Granules

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Blue Wave Sanitizing Granules
GENERAL USE: Swimming Pool Sanitizer
PRODUCT DESCRIPTION: Sodium Dichloro-s-trazinetione Dihydrate
MOLECULAR FORMULA: C3Cl2N3O3Na-2H2O
ACTIVE INGREDIENT(S): Sodium Dichloro-s-triazinetrione 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-triazinetrione Dihydrate	100	051580-86-0	- -

COMMENTS: 55.0 - 56.0% active chlorine

MATERIAL SAFETY DATA SHEET

Date Issued: 07/01/2008
MSDS No: Blue Wave Sanitizing Granules
Date Revised: 08/20/2008
Revision No: 2

Blue Wave Sanitizing Granules

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.

MATERIAL SAFETY DATA SHEET

Date Issued: 07/01/2008
MSDS No: Blue Wave Sanitizing Granules
Date Revised: 08/20/2008
Revision No: 2

Blue Wave Sanitizing Granules

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		SupplierOEL	
Chemical Name		**ppm**	**mg/m³**	**ppm**	**mg/m³**	**ppm**	**mg/m³**
Sodium Dichloro-s-triazinetrione Dihydrate	**TWA**	Not Established		Not Established		[1]	[1]
	STEL	Not Established		Not Established			

Footnotes:
1. The TLV for Chlorine is 0.5 ppm (1.5 mg/m3) 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 thatn 0.05 mg/m3.

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

MATERIAL SAFETY DATA SHEET

FREEZING POINT: Not Applicable

FLASHPOINT AND METHOD: Not Applicable

SOLUBILITY IN WATER: 26.2 g/100ml H2O 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 CO2 and Cl2.

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 (Na2CO3) 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 LD50 738 mg/kg (rat) 1355 (male) 1400 (female)

12. ECOLOGICAL INFORMATION

MATERIAL SAFETY DATA SHEET

Date Issued: 07/01/2008
MSDS No: Blue Wave Sanitizing Granules
Date Revised: 08/20/2008
Revision No: 2

Blue Wave Sanitizing Granules

AQUATIC TOXICITY (ACUTE)

48-HOUR EC_{50}: 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:

MATERIAL SAFETY DATA SHEET

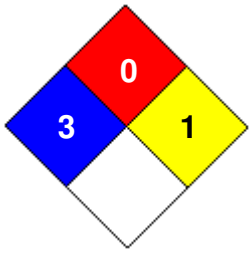
Date Issued: 07/01/2008
MSDS No: Blue Wave Sanitizing Granules
Date Revised: 08/20/2008
Revision No: 2

Blue Wave Sanitizing Granules

HMIS RATING

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

NFPA CODES



MANUFACTURER DISCLAIMER: Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained therein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a detemination as to the suitability of the information for their particular purpose(s).