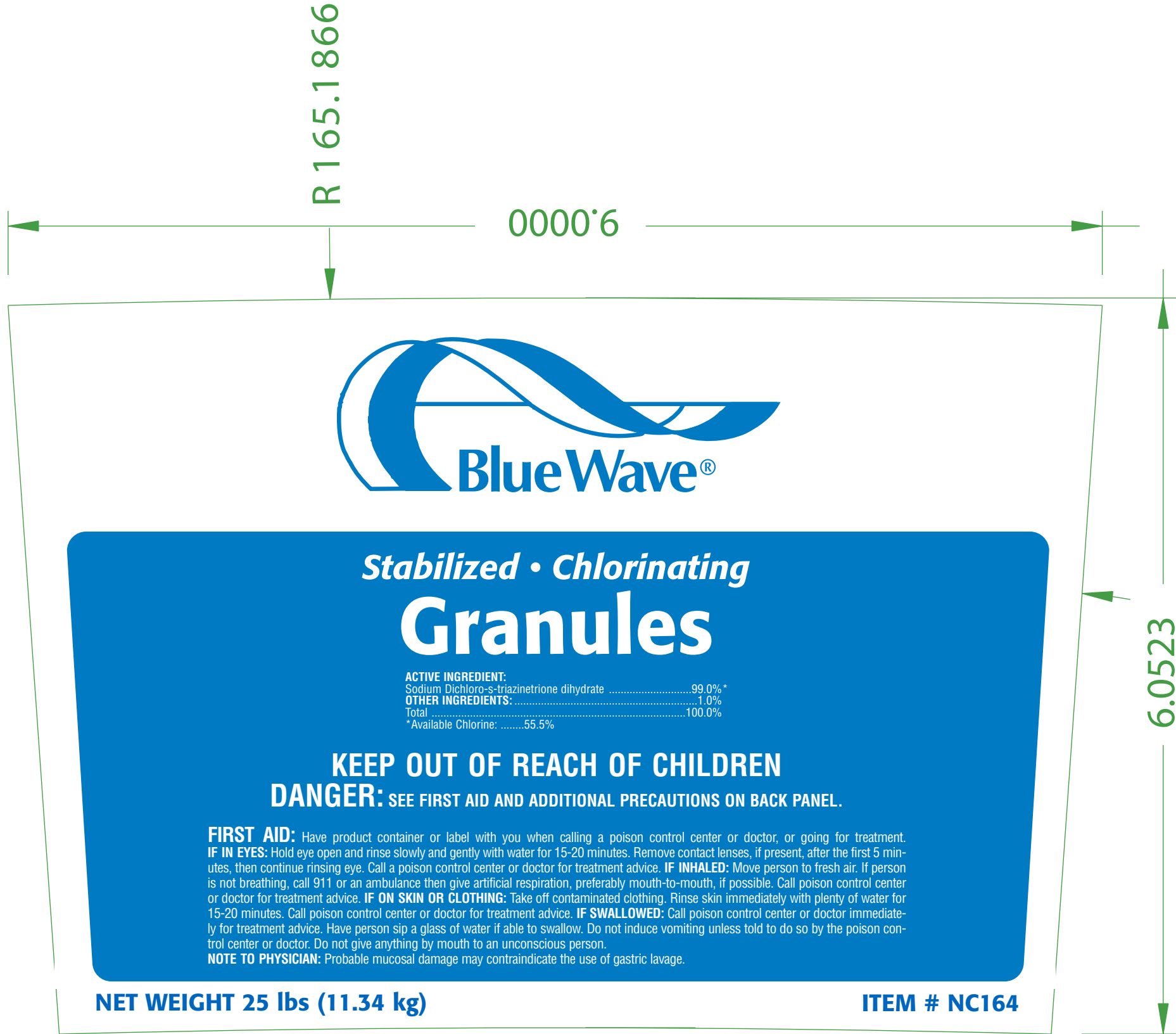


WEBSIDE DIRECTION

GEARSIDE



PRODUCT VIEW DIE VIEW DIE VIEW
 CUSTOMER: PO# 33905Q
 SALES: JV ACROSS 1 AROUND 1 REVISION: 0
 TOOTH: 73 PITCH: 1/8
 DATE: 3-9-2005
 DRW.BY: IR

 american die technology

WEBSIDE DIRECTION

GEARSIDE

R 165.1866

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6.0523

Stabilized • Chlorinating Granules

EMERGENCY HANDLING: In case of contamination or decomposition do not reseal container. If possible, isolate container in open and well-ventilated area. Flood with large volumes of water. Dispose of contaminated material in an approved landfill area.

PRECAUTIONARY STATEMENTS:

HAZARDS TO HUMANS AND DOMESTIC ANIMALS.

DANGER: Corrosive. Causes irreversible eye damage. May be fatal if inhaled. Harmful if swallowed or absorbed through skin. Do not get in eyes, on skin, or on clothing. Do not breathe dust, vapor or spray mist. Wear goggles, face shield or safety glasses. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

CHEMICAL HAZARDS. DANGER: Strong oxidizing agent. Use only clean, dry utensils. Mix only into water. Contamination with moisture, dirt, organic matter, or other chemicals (including other pool chemicals) or other foreign matter may start a chemical reaction with generation of heat, liberation of hazardous gases, and possible generation of fire and explosion. Avoid any contact with flaming or burning material, such as a lighted cigarette. Do not use this product in any chlorinating device which has been used with any inorganic or unstabilized chlorinating compounds (e.g. calcium hypochlorite). Such use may cause fire or explosion.

ENVIRONMENTAL HAZARD: This pesticide is toxic to fish and aquatic organisms.

STORAGE AND DISPOSAL:

Storage: Keep product dry in a tightly closed container when not in use. Store in a cool, dry, well-ventilated area away from heat or open flames. Do not reuse or refill empty container.

Disposal: If empty: Nonrefillable container. Do not reuse or refill this container. Place in trash or offer for recycling, if available. If partially filled: Call your local solid waste agency or 1-800-CLEANUP (1-800-253-2687) for disposal instructions. Never place unused product down any indoor or outdoor drain.

DIRECTIONS FOR USE: It is a violation of federal law to use this product in a manner inconsistent with its labeling. This product is designed to dissolve quickly and completely providing a steady source of available chlorine in swimming pools to control the growth of algae, kill bacteria and destroy organic contaminants.

READ THE PRECAUTIONARY STATEMENTS BEFORE USE:

METHOD OF APPLICATION: Broadcast the product evenly over a wide area in the deepest part of the pool with water circulating.

ROUTINE CHLORINATION: Throughout the pool season, adjust pH to 7.2-7.6 with Blue Wave pH Increaser or Blue Wave pH Reducer. Follow label directions. Broadcast 3 oz. of this product per 10,000 gallons pool water every other day or as often as needed to maintain chlorine residual at 2-4 ppm. This quantity may vary depending on bather load, temperature and other conditions. Re-entry into treated pools is prohibited above levels of 3 ppm chlorine. As a pre-

ventative treatment, you should shock treat weekly to prevent pool problems which may occur when bathing loads are high, water appears hazy or dull, unpleasant odors or eye irritation occur, after heavy wind and rainstorms, when temperatures are high, in case of colored water, or if algae develops with resulting green color and slimy feeling.

SHOCK TREATMENT: Adjust pH to 7.2 to 7.4 with a pH increaser or pH decreaser. Follow label directions. Shock treat weekly to kill bacteria, control algae and organic material. As an alternative, add 18 oz. of this product per 10,000 gallons of pool water.

WATER BALANCE: To provide optimum product performance, swimmer comfort and crystal clear water, always maintain pH in the 7.2-7.8 range, total alkalinity in the 90-125 parts per million (ppm) range and calcium hardness above 200 ppm. Use a reliable test kit that measures all these ranges. Make necessary adjustments with the appropriate pool care products.

SPA AND HOT TUB USE: Each level teaspoon (0.17 ounces) of this product will provide approximately 1.4 ppm available chlorine in 500 gallons of water. Using an appropriate test kit, test and adjust the water to the following values: pH 7.2-7.8, total alkalinity 60-100 ppm, calcium hardness 200 ppm minimum. Maintain these conditions for proper spa and hot tub operation by frequent testing with a test kit. Do not allow cyanuric acid level to exceed 150 ppm. It is recommended that spas and hot tubs be drained every 30-90 days. More often under heavy use. Consult manufacturer's recommendations concerning the compatibility of chlorine sanitizers with their equipment. Some oils, lotions, fragrances and cleaners may cause foaming or cloudy water and may react with chlorine sanitizers to reduce their efficacy.

START-UP (FRESHLY FILLED)


1. Turn on the circulation system and ensure that it is operating properly.
 2. Add 6 teaspoons of this product for each 500 gallons of water.
- Check the free available chlorine (FAC) and, if below 4-5 ppm, repeat as needed. Re-entry into treated spas is prohibited above levels of 3 ppm of chlorine.

REGULAR USE:

Turn on the circulation system and ensure that it is operating properly. Scatter approximately 3 teaspoons per 500 gallons of this product over the surface of water. Always use a clean dry spoon. Test for FAC and add additional product, if necessary, to attain 4-5 ppm FAC. Maintain 1-3 ppm FAC while the spa or hot tub is in use. After each use, shock treat with 9 teaspoons per 500 gallons water to control odors and algae. Repeat as needed. Re-entry into treated spas is prohibited above levels of 3 ppm of chlorine.

Distributed by:
Blue Wave Products
 St. Charles, IL 60174
1-800-759-0977

EPA REG. 46043-11-63084
EPA Est. No. 46043-FL-1

PRODUCT VIEW DIE VIEW DIE VIEW
 CUSTOMER: ADT # 33905Q
 SALES: JV ACROSS 1 AROUND 1 REVISION: 0 TOOTH: 73 PITCH: 1/8
 american die technology DATE: 3-9-2005 DRW.BY: IR


MATERIAL SAFETY DATA SHEET

Date Issued: 07/01/2008

MSDS No: Blue Wave Sanitizing Granules

Date Revised: 04/27/2011

Revision No: 4

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-triazinetrione 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:** Harmful if absorbed through the skin.**INGESTION:** May be harmful if swallowed.**INHALATION:** May be fatal if inhaled.**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	51580-86-0	--

COMMENTS: 55.0 - 56.0% active chlorine

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.

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SKIN: Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

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: Move victim to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth to mouth, if possible.

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 extinguishing measures to suit surroundings. For safety reasons, do not use full water jet.

HAZARDOUS COMBUSTION PRODUCTS:

In case of fire, the following hazardous combustion gases are formed:

Nitrogen; Hydrogen Chloride (HCl); Chlorine (Cl₂); Nitrogen trichloride (explosion hazard); Isocyanic acid; carbon monoxide and carbon dioxide.

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.

COMMENTS: Avoid dust formation. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.

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.

LOADING TEMPERATURE: Keep away from sources of ignition. Keep containers tightly closed in a cool, well-ventilated place. Protect from moisture and water.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		Supplier OEL	
Chemical Name		ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
Sodium Dichloro-s-triazinetrione Dihydrate	TWA	[1]	[1]	[2]	[2]	[3]	[3]
Footnotes: 1. 15 mg/m ³ (total dust) TWA; 5 mg/m ³ (respirable) 8-hr TWA for Particulates Not Otherwise Regulated 2. 3 mg/m ³ (respirable) TWA; 10 mg/m ³ (inhalable) TWA - for Particulates Not Otherwise Classified 3. 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: Chemical splash goggles and face shield.

SKIN: Impervious gloves.

RESPIRATORY: If needed, use OSHA-NIOSH approved respirator for dusts, mists, and fumes with TLV not less than 0.05 mg/m³.

PROTECTIVE CLOTHING: Neoprene apron and impervious clothing.

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

COMMENTS: Avoid contact with eyes and skin. Do not inhale dust. Remove soiled or soaked clothing immediately.

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

FREEZING POINT: Not Applicable

MELTING POINT: Decomposes at 240 degrees C.

FLASHPOINT AND METHOD: Not Applicable

SOLUBILITY IN WATER: 26.2 g/100ml H₂O at 25 degrees C

EVAPORATION RATE: Not Applicable

DENSITY: 16.69 at (68°F)

SPECIFIC GRAVITY: 1.95

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VISCOSITY: Not Applicable

(VOC): 100.000

10. STABILITY AND REACTIVITY

STABILITY: Stable under dry and normal conditions.

POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Heat, open flames and other sources of ignition. Exothermal reactions are possible in the event of contact with incompatible substances.

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen Chloride (HCl), Chlorine, Nitrogen, Nitrogen Chloride, Isocyanic 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 contact with oxidizing agents, reducing agents, acids and alkalis.

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

ACUTE

DERMAL LD₅₀: > 5000 mg/kg (rabbit)

Notes: Merck

ORAL LD₅₀: 500-1600 mg/kg (rat)

Notes: Merck

NOTES: Contact with eyes and skin may cause irritation.

COMMENTS: Acute Toxicity: Oral LD₅₀ 738 mg/kg (rat) 1355 (male) 1400 (female)

12. ECOLOGICAL INFORMATION

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AQUATIC TOXICITY (ACUTE)

48-HOUR EC₅₀: 3.19 TLM ppm Oryzias Latipes

GENERAL COMMENTS: Very toxic to aquatic organisms. May cause long term adverse effects in the aquatic environment. Do not discharge into aquatic environment, drains or sewage treatment plants. Marine pollutant.

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 regulated if non-bulk (under 882 lbs) via truck or rail.

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

VESSEL (IMO/IMDG)

SHIPPING NAME: Environmentally Hazardous Substances, Solid, N.O.S. (Sodium Dichlorisocyanurate dihydrate), Marine Pollutant

UN/NA NUMBER: 3077

PRIMARY HAZARD CLASS/DIVISION: 9

PACKING GROUP: III

NOTE: Marine Pollutant

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: Not listed.

313 REPORTABLE INGREDIENTS: None.

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

MATERIAL SAFETY DATA SHEET

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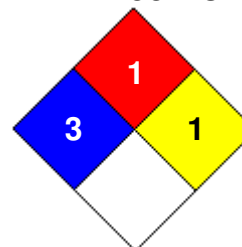
Blue Wave Sanitizing Granules

REVISION SUMMARY: Revision #: 4. This MSDS replaces the April 27, 2011 MSDS. , International (IMO /IMDG) - Proper Shipping Name

HMIS RATING

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

NFPA CODES



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