

SAFETY DATA SHEET

Date Issued : 7/1/2008

MSDS No : Blue Wave Sanitizing Granules

Date Revised : 5/20/2013

Revision No : 5

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:** Danger. Corrosive: Causes irreversible eye damage. May be fatal if inhaled. Harmful if absorbed through skin or swallowed. May cause respiratory tract irritation.

Environmental Hazards: Toxic to aquatic organisms; may cause long-term effects in the aquatic environment.

POTENTIAL HEALTH EFFECTS**EYES:** Causes irreversible eye damage.**SKIN:** Harmful if absorbed through the skin.**INGESTION:** May be harmful if swallowed.**INHALATION:** May be fatal if inhaled.

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.**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

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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.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: Not Applicable

FLAMMABLE LIMITS: 0 to 0

Notes: Non-flammable.

EXTINGUISHING MEDIA: Use massive amounts of water. Do not use dry chemicals, carbon dioxide, halogenated agents.

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.

FIRE FIGHTING PROCEDURES: The product is not combustible, however it promotes fire. Containers close to fire should be transferred to a safe place. Cool endangered containers with water spray jet. Run-off water from firefighting must not be discharged into drains or enter surface water. Wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH approved and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Collect mechanically (preferably in dry condition). Send for recovery or disposal in suitable, properly labeled containers.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: This pesticide is toxic to fish and aquatic organisms. Do not discharge into drains or waterways.

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

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Provide good ventilation of work area (local exhaust ventilation if necessary.)

Avoid the formation of dust.

Keep away from food and beverages.

Do not eat, drink or smoke during work time.

Wash hands before and after working with material.

Avoid contact with eyes and skin.

Do not inhale dust.

Remove soiled clothing immediately.

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Keep away from sources of ignition.

STORAGE: Keep container tightly closed and dry in a cool, well-ventilated area. Protect from atmospheric moisture.

Containers with are opened must be carefully resealed and kept upright to prevent leakage. Always keep in containers of same material as original one.

Do not store with organic materials, combustible materials, ammonia, ammonium compounds, alkalies, oxidizing agents, reducing agents, acids.

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 ³	ppm	mg/m ³	ppm	mg/m ³
Sodium Dichloro-s-triazinetriene 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.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Chemical splash goggles and face shield.

SKIN: Butyl rubber.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Solid

ODOR: Mild chlorine.

APPEARANCE: White granular.

pH: 6.5 (1% solution.)

VAPOR PRESSURE: 100

VAPOR DENSITY: 100

BOILING POINT: Not Applicable

FREEZING POINT: Not Applicable

MELTING POINT: > (464°F)

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FLASHPOINT AND METHOD: Not Applicable

SOLUBILITY IN WATER: 0.0579 lb/0.22 lb at 77°

EVAPORATION RATE: Not Applicable

DENSITY: 16.69 at (68°F)

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.

CONDITIONS TO AVOID: Heat, open flames and other sources of ignition. Exothermic 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: Organic materials, combustible materials, ammonia, ammonium compounds, alkalies, oxidizing agents, reducing agents, acids.

11. TOXICOLOGICAL INFORMATION

ACUTE

DERMAL LD₅₀: > 5000 mg/kg (rabbit)

Notes: Merck

ORAL LD₅₀: 1823 mg/kg (rat)

Notes: Merck

NOTES: Contact with eyes and skin may cause irritation.

12. ECOLOGICAL INFORMATION

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

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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: Hazard Categories: Health: Immediate (Acute) Health Hazard

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.

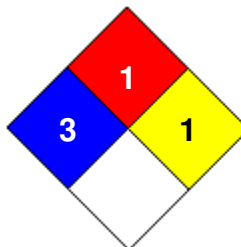
16. OTHER INFORMATION

REVISION SUMMARY: This MSDS replaces the 4/27/2011 MSDS. Revised: **Section 2:** ACUTE TOXICITY, EMERGENCY OVERVIEW - IMMEDIATE CONCERNS POTENTIAL HEALTH EFFECTS - EYES. **Section 4:** ADDITIONAL INFORMATION, SKIN. **Section 5:** EXPLOSION HAZARDS, EXTINGUISHING MEDIA, FIRE FIGHTING PROCEDURES. **Section 6:** SMALL SPILL, WATER SPILL. **Section 7:** GENERAL PROCEDURES, HANDLING, LOADING TEMPERATURE, STORAGE, STORAGE TEMPERATURE. **Section 8:** COMMENTS, ENGINEERING CONTROLS, PERSONAL PROTECTIVE EQUIPMENT - SKIN. **Section 9:** MELTING POINT, pH, SOLUBILITY IN WATER. **Section 10:** INCOMPATIBLE MATERIALS. **Section 11:** ACUTE - ORAL LD₅₀ (rat) COMMENTS. **Section 12:** AQUATIC TOXICITY (ACUTE) (48-HOUR EC₅₀). **Section 15:** 311/312 HAZARD CATEGORIES.

HMIS RATING

HEALTH	3
FLAMMABILITY	1
PHYSICAL HAZARD	1
PERSONAL PROTECTION	F

NFPA CODES



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