



Disinfectant For Pools Brominating Tablets

ACTIVE INGREDIENT:
Bromochloro-5, 5-dimethylhydantoin98.0%
Other Ingredients:2.0%
TOTAL100.0%
Provides: 61% Available Bromine
27% Available Chlorine

KEEP OUT OF REACH OF CHILDREN

DANGER

**CORROSIVE AND STRONG OXIDIZER
USE WITH ADEQUATE VENTILATION
WASH THOROUGHLY AFTER HANDLING**

SEE BACK PANELS FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

FIRST AID: Have product container or label with you when calling a poison control center or doctor, or going for treatment. **IF IN EYES:** hold eye 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. **IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call poison control center or doctor for treatment advice. **IF INHALED:** Move person to fresh air. If person is not breathing, call 911 or an ambulance then give artificial respiration, preferably mouth-to-mouth, if possible. Call poison control center or doctor for treatment advice. **IF SWALLOWED:** Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. **IN CASE OF MEDICAL EMERGENCY, CALL 911.**

NET WEIGHT 10 lbs (4.54 kg)

ITEM # NC197

DO NOT SHIP WITH FOODS, FEEDS, DRUGS OR CLOTHING

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.
STORAGE: Store in a dark, cool (below 96°F (30°C)), dry, well-ventilated area, in well-closed original containers, away from energy sources, combustible organic materials, oxidizers, strong bases, and moisture.
PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

SPILLS: When handling or dealing with spills, use impact-resistant goggles with side-shields, or face shield, body-covering clothes, including impervious rubber or plastic gloves and boots; use a dust respirator if dusting occurs. Sweep up dry spills and dispose of as described for pesticide disposal. If drum contents are contaminated or decomposing, do not re-seal container; isolate unsealed drum in the open or in a well-ventilated area; flood with large volumes of water if necessary.

IN CASE OF FIRE: Do not use ammonium phosphate extinguisher near water and 1" Brominating Tablets. Hazardous reactions may occur.

DO NOT SMOKE, DRINK, OR EAT WHEN HANDLING

SPECIAL PRECAUTIONS, PLEASE READ BEFORE OPENING CONTAINER - MISUSE MAY RESULT IN SERIOUS PERSONAL INJURY REQUIRING HOSPITALIZATION. RELATED COMPLICATIONS MAY LEAD TO DEATH PREVENTION OF PHYSICAL INJURY:

1. This product emits a powerful bromine gas: Do not open container indoors. Hold away from face when opening to avoid breathing fumes.
2. Mixing with other chemicals may cause a violent and instantaneous chemical reaction. Do not add this product to water in a pail. Do not add water to this product in a pail.
3. Follow label instructions exactly. Do not take advice from others. Do not experiment.

PREVENTION OF PROPERTY DAMAGE: Contact between this product in its undissolved state and vinyl liners, painted surfaces or other property in or around the pool will result in permanent bleaching of the color.

**PRECAUTIONARY STATEMENTS
HAZARD TO HUMANS AND DOMESTIC ANIMALS
DANGER-CORROSIVE**

CAUSES IRREVERSIBLE EYE DAMAGE AND SKIN BURNS. EYE CONTACT MAY CAUSE LOSS OF VISION, IRRITATING TO NOSE AND THROAT. MAY BE FATAL IF INHALED. HARMFUL IF ABSORBED THROUGH SKIN OR SWALLOWED. Do not breathe dust or spray mist. Do not get in eyes, on skin or on clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wear goggles with side-shields, face shield or safety glasses, protective clothing and rubber gloves. Wear a mask or pesticide respirator jointly approved by Mine Safety and Health Administration and the National Institute for Occupational Safety and Health. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before re-use.

ENVIRONMENTAL HAZARDS

This product is toxic to fish and aquatic organisms. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

CHEMICAL AND PHYSICAL HAZARDS

Strong oxidizer, mix with water only. Reaction with combustible organic materials, bases, moisture or with ox-

idizers may generate heat, hazardous gases and, possibly, fire or explosion. Do not add to dispensers or other equipment that is not dry and clean of any chemical remnants. Does not burn, but will decompose from about 320°F (160°C), releasing toxic gases. Avoid comminution and dusting.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Keep pH between 7.2 and 7.6 and never allow it to fall below 7.0.

The dosage necessary for your pool or spa will change considerably depending upon those factors that burden the disinfection system. Some of the factors that will vary the required dosages are water temperature, bather load, exposure to windblown debris, thunder or rain storms and length of filtration cycle.

SWIMMING POOLS: In newly filled pools, shock the pool if necessary. Follow directions for use on this label to establish an effective active bromine residual of between 2 and 3 ppm. Test water frequently using a reliable bromine test kit. Adjust the flowrate through the brominator if necessary, to maintain the active bromine residual. The following dosages are provided as a general rule of thumb. Automatic and floating brominators have use instructions peculiar to their design. Frequently a brominator must be filled to capacity every week - while the adjustments allow the user to erode only the total amount of 1" Brominating Tablets necessary for proper sanitation. As suggested below, the slow dissolving nature of the chemical combined with the design features of the brominator requires that a greater amount of chemical be exposed to the water. **RESIDENTIAL:** Add 17 tablets per 10,000 gallons every 5-7 days or as needed to maintain a bromine residual of 2-3 ppm at all times. Apply weekly dose through the use of a floating tablet feeder such as the Multi-Chlor or an automatic brominator which will allow you to adjust the amount of bromine entering the water. **COMMERCIAL:** Add 31 tablets per 10,000 gallons every 5-7 days or as needed to maintain an active bromine residual of between 3 and 5 ppm at all times. **SPAS AND HOT TUBS:** Before initially using 1" Brominating Tablets in your spa or hot tub you will need to add 1/2 oz. of sodium bromide for each 100 gallons of water. The same treatment should be followed each time you drain and refill your spa or hot tub with fresh water. Introduce 3 tablets per 300 gallons of spa water with the use of a floating tablet feeder or automatic brominator installed on the spa equipment. Adjust tablet feeder or brominator to obtain an active bromine residual of at least 2 ppm. Maintain spa by adding 3 tablets per 300 gallons every 5-7 days or as needed to maintain an active bromine residual of 2 ppm at all times. Spa water has a tendency to foam and cloud that is directly proportional to the amount of use it receives. This is due to the accumulation of body fats and oils and contaminants too small for the filtration equipment to remove, and to the rapid escalation of total dissolved solids in the water. To a great extent, defoamer, clarifier, shock treatments, and demineralizers or sequestering agents can be used to clear the water. When this becomes impossible, draining, cleaning, and refilling the spa will be the most satisfactory way of solving this problem.

WARRANTY

Seller warrants that this product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with label directions under normal conditions of use, but neither this warranty nor any other warranty of MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, express or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to Seller, and Buyer assumes the risk of any such use.

Pool Gallon Calculator (all dimensions in feet)

Square or Rectangular: Length x Width x Average Depth x 7.5 = Gallons
Round or Oval: Length x Width x Average Depth x 5.9 = Gallons
Each Tablet Weighs 0.70 ounces (19.8 Grams)

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

EPA REG. 8622-41-63084
EPA Est. No. 46043-FL-1

MATERIAL SAFETY DATA SHEET

Date Issued: 08/30/2011
MSDS No: BW Brominating Tablets

Blue Wave Brominating Tablets

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Blue Wave Brominating Tablets
GENERAL USE: Swimming Pool Sanitizer
PRODUCT DESCRIPTION: Mini Slow Dissolving Tablets for Swimming Pool & Spa Disinfecting
CHEMICAL FAMILY: Halogenated Hydantoin

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: Corrosive. Causes irreversible eye damage and skin burns. Irritating to nose and throat. May be fatal if inhaled. Harmful if absorbed through skin or swallowed. Oxidizer.

POTENTIAL HEALTH EFFECTS

EYES: Corrosive. May cause temporary or permanent eye damage.

SKIN: Exposure to wet skin may cause severe irritation. May cause skin sensitization.

SKIN ABSORPTION: Harmful if absorbed through the skin.

INHALATION: Irritant to upper respiratory tract. Shortness of breath, headache and nausea.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS	EINECS
Bromo-chloro-5, 5-dimethylhydantoin	98	32718-18-6	251-171-5

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. Call a poison control center or doctor for treatment advice.

INGESTION: Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

INHALATION: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration,

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preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

NOTES TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

5. FIRE FIGHTING MEASURES

FLAMMABLE LIMITS: 0 to 0

EXTINGUISHING MEDIA: Dry powder, carbon dioxide or water spray.

EXPLOSION HAZARDS: Oxidizing agent. Forms explosive mixtures with combustible, organic or other easily oxidizable materials. When heated to decomposition, may release poisonous and corrosive fumes.

FIRE FIGHTING PROCEDURES: Cool containers with water spray. In closed stores, provide fire-fighters with self-contained breathing apparatus in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES: Evacuate area.

RELEASE NOTES: Vacuum or sweep up material and place in a disposal container. Avoid dust formation. Collect solids for waste removal. Rinse contaminated area with plenty of water. Avoid access to streams, lakes or ponds.

SPECIAL PROTECTIVE EQUIPMENT: Use dust respirator, rubber gloves and chemical safety goggles.

7. HANDLING AND STORAGE

HANDLING: Keep containers tightly closed.

STORAGE: Keep away from sources of ignition. Store in a cool, dry, well-ventilated area. Keep away from incompatible materials.

STORAGE TEMPERATURE: Below 30 degrees C.

LOADING TEMPERATURE: For transportation, it is possible to store at temperatures up to 50 degrees C.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)					
		EXPOSURE LIMITS			
		OSHA PEL		ACGIH TLV	
Chemical Name		ppm	mg/m ³	ppm	mg/m ³
Bromo-chloro-5, 5-dimethylhydantoin	TWA	N/E		N/E	

ENGINEERING CONTROLS: Use local exhaust as necessary, especially under dusty conditions. Ventilation must be sufficient to maintain atmospheric concentration below recommended exposure limit.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear chemical safety glasses or goggles.

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SKIN: PVC gloves, body covering clothes and boots.

RESPIRATORY: Approved respirator.

WORK HYGIENIC PRACTICES: Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Safety shower and eye bath should be provided.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Solid

ODOR: Faint halogenous odor

APPEARANCE: White tablet.

VAPOR PRESSURE: 9.35×10^{-3} Pa (25 deg C)

VAPOR DENSITY: 98

BOILING POINT: Not Applicable

SOLUBILITY IN WATER: .22 g/100ml

SPECIFIC GRAVITY: 1.800 to 2.0

(VOC): 98.000

10. STABILITY AND REACTIVITY

HAZARDOUS POLYMERIZATION: No

STABILITY: Stable under normal conditions.

CONDITIONS TO AVOID: Exposure to moisture. Heating above decomposition temperature. Contact with combustible materials may initiate decomposition of the material and emission of smoke.

HAZARDOUS DECOMPOSITION PRODUCTS: CO, HBr, Cl₂, NO_x, HCl, CO₂

INCOMPATIBLE MATERIALS: Oxidizing agents, bases, and combustible organic materials.

11. TOXICOLOGICAL INFORMATION

ACUTE

ORAL LD₅₀: 929 mg/kg (rat)

INHALATION LC₅₀: 1.1 mg/l/4 hour (rat)

CARCINOGENICITY

IARC: Not classified as a carcinogen.

IRRITATION: Dermal irritation (rabbit) - Corrosive

SENSITIZATION: Sensitizer

MUTAGENICITY: Mutagenic by the Ames Test. Mutagenic in the mouse lymphoma L5178Y test system. Non genotoxic in an in-vivo in micronucleous test in mice. Non genotoxic in an in-vivo liver unscheduled DNA synthesis (USD) assay.

12. ECOLOGICAL INFORMATION

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BIOACCUMULATION/ACCUMULATION: Based on low Kow values, i.e. less than one, this product would not be predicted to significantly accumulate in aquatic organisms, or sorb to organic material in soil or sediment.

AQUATIC TOXICITY (ACUTE)

96-HOUR LC₅₀: 1.2 mg/l (eastern oyster, Acute flow through)
1.9 mg/l (Mysid shrimp, Acute flow through)
0.4 mg/l (Rainbow trout, Static)
1.6 mg/l (Sheepshead minnow, Acute flow through)

48-HOUR EC₅₀: 0.75 mg/l (Static) (Daphnia Magna)

COMMENTS: Avian Toxicity:

Oral LD50, Bobwhite Quail 1839 mg/kg
Dietary LC50, Mallard Duck >5620 ppm
Dietary LC50, Bobwhite quail >5620 ppm

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: Oxidizing Solid, N.O.S. (Bromochloro-5, 5-Dimethylhydantoin)

PRIMARY HAZARD CLASS/DIVISION: 5.1

UN/NA NUMBER: UN 1479

PACKING GROUP: II

OTHER SHIPPING INFORMATION: DOT exception 173.154 - this product qualifies as a Limited Quantity when inner packaging does not exceed 2.2 lbs and outer packaging does not exceed 66 lbs.

15. REGULATORY INFORMATION

UNITED STATES

DOT LABEL SYMBOL AND HAZARD CLASSIFICATION



Oxidizing

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: This product is a hazardous chemical under 29CFR 1910.1200 and is categorized as an IMMEDIATE, DELAYED HEALTH and REACTIVITY physical hazard.

313 REPORTABLE INGREDIENTS: No ingredients listed at or above the de minimus level.

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: Not listed.

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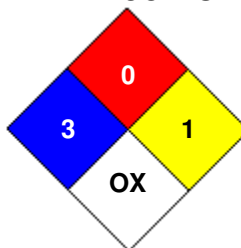
FIFRA (FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT): This is an EPA-registered product.

16. OTHER INFORMATION

HMIS RATING

HEALTH	<input type="checkbox"/>	3
FLAMMABILITY	<input type="checkbox"/>	0
PHYSICAL HAZARD	<input type="checkbox"/>	1
PERSONAL PROTECTION	<input type="checkbox"/>	

NFPA CODES



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