



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

August 1, 2017

Levi Howell  
Regulatory Affairs Specialist  
ICL-IP America, Inc.  
11636 Huntington Road  
Gallipolis Ferry, WV 25515

Subject: Label Amendment – Addition of decorative water fountains/ reflecting ponds to directions for use; minor label updates  
Product Name: HALOGENE  
EPA Registration Number: 8622-28  
Application Date: March 19, 2017  
Decision Number: 527382

Dear Mr. Howell:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

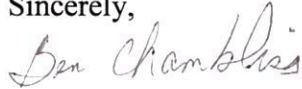
Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance

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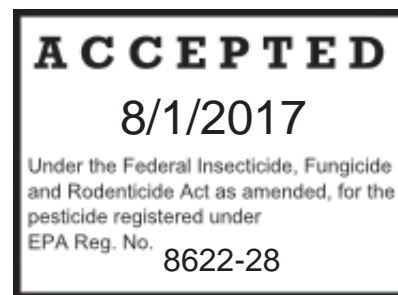
with FIFRA section 6. If you have any questions, you may contact Donna Kamarei at (703)347-0443 or via email at [Kamarei.donna@epa.gov](mailto:Kamarei.donna@epa.gov).

Sincerely,



*for* Demson Fuller, Product Manager 32  
Regulatory Management Branch II  
Antimicrobials Division (7510P)  
Office of Pesticide Programs

Enclosure



{All text in brackets [xxx] is optional and may or may not be intended on a final label.}  
 {All text in braces {xxx} is administrative and will not appear on a final label.}

# HALOGENE®

## BROMO-CHLORO-DIMETHYLHYDANTOIN

{Optional Marketing Statements that may be used with industrial sites only.}  
 [A MICROBIOCIDAL [BACTERICIDE], [FUNGICIDE], [ALGAECIDE] [AND] [SLIMICIDE] [FOR TREATING] [RECIRCULATING COOLING WATER IN INDUSTRIAL COOLING SYSTEMS], [INDUSTRIAL ONCE-THROUGH COOLING WATER SYSTEMS], [DECORATIVE WATER FOUNTAINS], [REFLECTING PONDS], [AND] [PULP AND PAPER MILL WATER SYSTEMS]].

{Optional Marketing Statements that may be used with swimming pool and spa and hot tub sanitization.}  
 [For Pools and Spas.]  
 [Sanitizer.]  
 [Disinfectant.]  
 [Bactericide.]  
 [For Use in Bromine Feeders.]

**ACTIVE INGREDIENT:**  
    Bromochloro-5,5-dimethylhydantoin ..... 96%  
**OTHER INGREDIENTS:**..... 4%  
**TOTAL:**..... 100%

**KEEP OUT OF REACH OF CHILDREN**  
**DANGER**  
**CORROSIVE AND STRONG OXIDIZER**

| FIRST AID                     |   |
|-------------------------------|---|
| <b>If in eyes</b>             | <ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>   |
| <b>If on skin or clothing</b> | <ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>   |
| <b>If inhaled</b>             | <ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>   |
| <b>If swallowed</b>           | <ul style="list-style-type: none"> <li>• Call a poison control center, or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul> |

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

**YOU MAY ALSO CONTACT [Telephone No.] FOR EMERGENCY MEDICAL TREATMENT INFORMATION.**

**NOTE TO PHYSICIAN**

Probable mucosal damage may contraindicate the use of gastric lavage.

See [back] [side] panel[s] for additional precautionary statements [and first aid].

**PRECAUTIONARY STATEMENTS**

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**DANGER**

**CORROSIVE.**

**CAUSES IRREVERSIBLE EYE DAMAGE AND SKIN BURNS.**

**MAY BE FATAL IF INHALED.**

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 chemical-resistant gloves. Wear a dust mist mask or pesticide respirator approved by the Mine Safety and Health Administration and National Institute for Occupational Safety and Health. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

**DO NOT SHIP WITH FOODS, FEEDS, DRUGS, OR CLOTHING.**

**KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE.**

**DO NOT SMOKE, DRINK, OR EAT WHEN HANDLING.**

**ENVIRONMENTAL HAZARDS**

{For containers less than 50 lbs.}

[This product is toxic to fish and aquatic organisms.]

{For containers greater than or equal to 50 lbs.}

[This product is toxic to fish and aquatic organisms. Do not contaminate water by cleaning of equipment or disposal of waste. 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.]

**PHYSICAL OR CHEMICAL HAZARDS**

**STRONG OXIDIZING AGENT.** Do not mix with other chemicals. Mix with water only. Reaction with combustible organic materials, bases, moisture or with oxidizers 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. Read the entire label and use strictly in accordance with precautionary statements and directions.

{Directions to be used for industrial sites.}

### **[INDUSTRIAL RECIRCULATING COOLING WATER SYSTEMS**

Used effectively at treatments recommended to achieve exposures to one part per million (ppm) of active residual bromine to control algal, bacterial and fungal slimes in industrial cooling towers; influent water systems, e.g. flow-through filters, and lagoons, etc.; heat-exchange water systems; industrial water scrubbing systems; brewery and canning pasteurizers and industrial air-washing systems equipped with a mist eliminator.

Initial treatment: When noticeably fouled, add 2-6 lbs./10,000 gal. of water contained in the system.

Repeat initial treatment until one ppm of active residual bromine is established for at least 4 hours.

Subsequent treatment: When microbial control is evident, add 1-3 lbs./10,000 gal. of water contained in the system. Repeat as needed to maintain one ppm of active residual bromine for at least 4 hours.]

### **[ONCE-THROUGH INDUSTRIAL COOLING WATER SYSTEMS**

Used for the control of algal, bacterial and fungal slimes, by adding to the system inlet, or before any other contaminated area in the system, in once-through and closed-cycle fresh and sea water cooling systems; cooling ponds; canals; and lagoons.

Initial treatment: When noticeably fouled, add 2-6 lbs./10,000 gal. of water contained in the system.

Repeat initial treatment until one ppm of active residual bromine is established for at least 4 hours.

Subsequent treatment: When microbial control is evident, add 1-3 lbs./10,000 gal. of water contained in the system. Repeat as needed to maintain one ppm of active residual bromine for at least 4 hours.]

### **[PULP AND PAPER MILL WATER SYSTEMS**

This product is intended for use as a slimicide for the process water used in the manufacture of paper and paperboard products that may contact food. Treat water at critical areas in the system process where mixing of the product with influent will be uniform. The frequency and duration of the treatment will depend upon the severity of the problem. Badly fouled process systems must be cleaned before initial treatment.]

{Note: Either one or both of the following treatment methods may be included on the label.}

[Treatment by system volume:

When a system is noticeably fouled: add 0.1 to 1.0 lbs. (or 12 to 120 ppm) of this product to 1,000 gal. of water in the system. When biological control is evident: add 0.1 to 0.75 lbs. (or 12 to 90 ppm) of this product to 1,000 gal. of water in the system.]

[Treatment by residual method:

Add sufficient amount of product to maintain a measured residual up to 5 ppm as bromine. Once biological control is evident, the use of this product normally can be reduced to something less than 1 ppm as bromine.]

{Optional Statement:}

[An alternative method of calculating the appropriate level of this product is to estimate the paper mill's daily production, then add, over a 24-hour period, up to 600 grams (1.3 lbs.) of this product per dry ton of paper produced over a 24-hour period. Test for bromine to verify the level of 5 ppm is not being exceeded.]

### **[[DECORATIVE WATER FOUNTAINS]]/[REFLECTING PONDS]**

This product, when used as directed, is effective as a water feature sanitizer and disinfectant.

Ensure all equipment is working properly. Backwash the filter system following manufacturer's directions. Adjust pH to between 7.2 – 7.6. When using other products as outlined in directions for this product, always follow directions on those products.

A bromine or chlorine residual of 1 – 2 ppm must first be established in the water. If the residual is established with this product in a brominator, use the brominator at the highest feed rate following manufacturer's recommendations. When the bromine residual reaches 1 – 2 ppm, adjust the feeder accordingly. To maintain bromine residual, adjust the brominator feed rate to assure a constant treatment level of 1 – 3 ppm. Regular use of a test kit is necessary to maintain a bromine residual in the water.]

{Directions to be used for swimming pool sanitization.}

**[FOR SWIMMING POOL SANITIZATION**

**Keep pH between 7.2 and 7.6 and never allow it to fall below 7.0.** When used as directed, this product is effective as a swimming pool water sanitizer and disinfectant. The dosage necessary for your pool 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 rainstorms and length of filtration cycle.]

**[SWIMMING POOLS:** In newly filled pools, shock the pool if necessary. Backwash the filter system following manufacturer's directions. Adjust pH to between 7.2-7.6. 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 flow rate 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 the product necessary for proper sanitization. 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 0.75 – 0.79 lbs. of product 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 feeder such as an automatic brominator which will allow you to adjust the amount of bromine entering the water. To maintain bromine residual, adjust the brominator feed rate to assure a constant treatment level of 2-3 ppm in residential pools.

**COMMERCIAL:** Add 1.36 – 1.41 lbs. of product 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. To maintain bromine residual, adjust the brominator feed rate to assure a constant treatment level of 3-5 ppm in commercial pools.]

**[HOW TO CALCULATE POOL CAPACITY**

| SHAPE OF POOL             | GAL. OF WATER (Dimensions in feet)                   |
|---------------------------|--|
| Rectangular:              | Average depth x average length x average width x 7.5 |
| Circular:                 | Diameter x diameter x average depth x 5.9            |
| Oval with straight sides: | Full width x full length x average depth x 6.7       |
| Irregular:                | Consult pool builder]                                |

{Directions to be used for spa and hot tub sanitization.}

**[FOR SPA AND HOT TUB SANITIZATION**

When used as directed, this product is effective as a spa and hot tub sanitizer and disinfectant. The dosage necessary for your 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 rainstorms and length of filtration cycle.]

**[SPAS & HOT TUBS:** Ensure all spa equipment is working properly. Clean cartridge filter or backwash sand or DE filter following manufacturer's directions. Adjust pH to between 7.2-7.6. Before initially using this product in your spa or hot tub you will need to add ½ oz of sodium bromide for each 100 gallons of water. The same treatment must be followed each time you drain and refill your spa or hot tub with fresh water. Introduce 0.13 lbs. of product per 300 gallons of spa water with the use of a floating feeder or automatic brominator installed on the spa equipment. Adjust feeder of brominator to obtain an active bromine residual of at least 2 ppm. Maintain spa by adding 0.13 lbs. of product per 300 gallons every 5-7 days or as needed to maintain an active bromine residual between 2-4 ppm in residential spas and 4-6 ppm in commercial spas at all times.

Spa water has a tendency to foam and cloud that in direct proportion 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 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.

The pump and filter must be operated for at least three hours every day whether spa is used or not. Do not heat water above spa manufacturer's recommended maximum temperature. Keep the spa free of leaves and other debris. To maintain clear, clean water and ensure performance of spa chemicals, spas must be drained and refilled with fresh water every 60 days in residential spas and a minimum of every 7 days in commercial spas.]

**STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage and disposal.

**PESTICIDE STORAGE**

Store in a dark, cool [below 86°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 HANDLING**

Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or, if allowed by state and local authorities by burning. If burned, stay out of smoke.

**SPILLS**

When handling or dealing with spills, use goggles with side-shields, or face shield; protective clothing, including chemical-resistant gloves and boots; use a dust respirator if dusting occurs. Sweep up dry spills and dispose of as described for pesticide disposal. If container contents are contaminated or decomposing, do not reseal container. Isolate unsealed container 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 this product. Hazardous reactions may occur.

**[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 to the extent consistent with applicable law, neither this warranty nor any other warranty of MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, expressed 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.]

**Produced for:**

ICL-IP America, Inc.  
11636 Huntington Road  
Gallipolis Ferry, WV 25515  
{for DOMESTIC labels only:}[Tel: 1-(877) 661-4272]  
{for INTERNATIONAL labels only:}[Tel: 1-(314) 983-7884]

EPA Reg. No. 8622-28  
EPA Est. No. \_\_\_\_\_  
[Material][Label] No. \_\_\_\_\_  
NET CONTENTS: \_\_\_\_\_ [lbs.][kg.]  
[Batch][Lot] No. \_\_\_\_\_