

8622-73

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

July 9, 2013

Levi Howell  
Regulatory Affairs Specialist  
ICL-IP America Inc.  
95 MacCorkle Avenue S. W.  
South Charleston, WV 25303

Subject: **HALOGENE® - TAB**  
EPA Registration Number: 8622-73  
Application Date: April 19, 2013  
EPA Receipt Date: April 19, 2013

Dear Mr. Howell:

The following amendment, submitted in connection with registration under section of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable.

Label Amendment

- Add Use Sites (See letter dated April 19, 2013).

General comments:

A stamped copy of the accepted labeling is enclosed. Submit 1 copy of your final printed label for the record.

Should you have any questions or comments concerning this letter, please contact me via email at: [fuller.demson@epa.gov](mailto:fuller.demson@epa.gov) or by telephone at (703) 308-6224 during the hours of 9:00 am to 5:30 pm EST.

Sincerely,

A handwritten signature in black ink, appearing to read "D. Fuller", followed by a horizontal line.

Demson Fuller  
Acting Product Manager (32)  
Regulatory Management Branch II  
Antimicrobials Division (7510P)

Enclosure: Stamped labeling

{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® - TAB

## BROMO-CHLORO-DIMETHYLHYDANTOIN Tablets

[FOR USE AS A [DISINFECTANT], [SANITIZER], [BACTERICIDE], [FUNGICIDE], [ALGAECIDE], [AND] [FOR CONTROL OF MICROBIAL SLIMES IN INDUSTRIAL PROCESSES AND WATER SYSTEMS SUCH AS]: [RECIRCULATING] [AND] [ONCE-THROUGH COOLING WATER SYSTEMS], [WASTERWATER TREATMENT SYSTEMS], [BREWERY PASTEURIZERS], [AIR CONDITIONERS], [DEHUMIDIFIERS], [EVAPORATIVE COOLERS], [PAPER AND PAPERBOARD PROCESS WATER], [AND] [WATER FOUNTAINS/REFLECTING PONDS]].

### ACTIVE INGREDIENT:

1-Bromo-3-chloro-5,5-dimethylhydantoin.....96%

OTHER INGREDIENTS: .....4%

TOTAL .....100%

**KEEP OUT OF REACH OF CHILDREN**

**DANGER**

**CORROSIVE AND STRONG OXIDIZER**

**ACCEPTED**  
Jul 9, 2013  
Under the Federal Insecticide, Fungicide, a Rodenticide, Act as amended, for the pesticide, registered under EPA Reg. No. 8622-73

FIRST AID	
If in eyes	<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>
If inhaled	<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>
If on skin or clothing	<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>
If swallowed	<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.	
<b>YOU MAY ALSO CONTACT [1-800-420-9236] FOR EMERGENCY MEDICAL TREATMENT INFORMATION.</b>	
<p align="center"><b>NOTE TO PHYSICIAN</b></p> <p align="center">Probable mucosal damage may contraindicate the use of gastric lavage.</p>	

**USE WITH ADEQUATE VENTILATION**  
**WASH THOROUGHLY AFTER HANDLING**

See side panels for additional precautionary statements.

## PRECAUTIONARY STATEMENTS

### HAZARDS 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. HARMFUL IF ABSORBED THROUGH THE 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 chemical-resistant gloves and boots. 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 SMOKE, DRINK OR EAT WHEN HANDLING.  
DO NOT SHIP WITH FOODS, FEEDS, DRUGS, OR CLOTHING.**

{for end-use products packaged in containers sizes of less than 50 pounds.}

#### **[ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish and aquatic organisms.]

{for end-use products packaged in container sizes greater than or equal to 50 pounds.}

#### **[ENVIRONMENTAL HAZARDS**

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 only with water. Use clean utensils. Do not add this product to any dispensing device containing remnants of any other product. Such use may cause a violent reaction leading to fire or explosion. Contamination with moisture, organic matter or other chemicals will start a chemical reaction and generate heat, hazardous gas, possible fire and explosion. In case of contamination or decomposition, do not reseal container. If possible, isolate container in open air or well ventilated area. Flood area with large volume of water.

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

#### **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.

#### **[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, lagoons, etc.); heat-exchange water systems; industrial water scrubbing systems; brewery and canning pasteurizers and industrial air-scrubbing systems equipped with a mist eliminator.

##### **Dosage Rates**

Initial dose: When noticeably fouled, add 2-6 lbs./10,000 gallons of water contained in the system. Repeat initial treatment until 1-3 ppm of 'active' residual bromine is established for at least 4 hours.

Subsequent dose: When microbial control is evident, add 1-3 lbs./10,000 gallons of water contained in the system. Repeat as needed to maintain 1-3 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.

**Dosage Rates**

Initial dose: When noticeably fouled, add 2-6 lbs./10,000 gallons of water contained in the system. Repeat initial treatment until 1-3 ppm of 'active' residual bromine is established for at least 4 hours.  
Subsequent dose: When microbial control is evident, add 1-3 lbs./10,000 gallons of water contained in the system. Repeat as needed to maintain 1-3 ppm of 'active' residual bromine for at least 4 hours.]

**[EVAPORATIVE COOLERS**

Used for the control of algal, bacterial and fungal slimes in evaporative coolers.

**Dosage Rates**

Initial dose: When noticeably fouled, add 2-6 lbs./10,000 gallons of water contained in the system. Repeat initial treatment until 1-3 ppm of 'active' residual bromine is established for at least 4 hours.  
Subsequent dose: When microbial control is evident, add 1-3 lbs./10,000 gallons of water contained in the system. Repeat as needed to maintain 1-3 ppm of 'active' residual bromine for at least 4 hours.]

**[CANNERY, CAN WARMER, PASTEURIZER, AND RETORT WATER SYSTEMS**

Used to control algal, bacterial, and fungal slime in cannery cooling canal water, cannery package warmers, cannery pasteurizer water, and retort water.

**Dosage Rates**

Initial dose: When noticeably fouled, add 2-6 lbs./10,000 gallons of water contained in the system. Repeat initial treatment until 1-3 ppm of 'active' residual bromine is established for at least 4 hours.  
Subsequent dose: When microbial control is evident, add 1-3 lbs./10,000 gallons of water contained in the system. Repeat as needed to maintain 1-3 ppm of 'active' residual bromine for at least 4 hours.]

**[COMMERCIAL AIR CONDITIONER AND DEHUMIDIFIER BASINS OR DRIP PANS**

Used to control microbial slimes in areas where water collects.

**Dosage Rates**

Place this product in the basin or drip pan close to the outlet drain. Use one or more tablets as necessary to maintain the cleanliness of the system. The number of tablets needed will vary with temperature, humidity and condensate volume.]

**[WASTEWATER TREATMENT SYSTEMS**

Used to control algal, bacterial, and fungal slimes and offers rapid disinfection of primary, secondary, and tertiary wastewater treatment systems.

**Dosage Rates**

Add 1-6 lbs./10,000 gallons of water treated to maintain a 0.5-5 ppm bromine residual at the injection point in the disinfection contact chamber. Adjust this product's dosage to achieve disinfection and minimize the halogen concentration at the exit of the contact chamber. Do not use treated wastewater to irrigate crops.]

**[WATER FOUNTAINS/REFLECTING PONDS**

Used effectively as a water feature sanitizer and disinfectant. Ensure all equipment is working properly. Backwash the filter system (if present) 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 be first 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.]

**[PULP AND PAPER MILLS**

Used to control algal, bacterial, and fungal slime in pulp and paper mill fresh, sea water, and influent water systems, cooling water systems, wastewater treatment systems, white water systems, and other process water. This product is intended for use as a slimicide for the process water used in the manufacture of paper and paperboard products. Do not exceed 2.2 lbs. of this product per dry metric ton of fiber when this product is used in the manufacture of paper and paperboard products that contact food. Treat water at critical areas in the process system 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.]

**[PRODUCT APPLICATION**

Treatment by System Volume: When a system is noticeably fouled, add 1-10 lbs. of this product to 10,000 gallons or 12-120 ppm of water in the system. When biological control is evident, add 1-7.5 lbs. of this product to 10,000 gallons or 12-90 ppm of water in the system.

Treatment by Residual Method: Add sufficient amount of this 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. To calculate the appropriate level of this product, estimate the paper mill's daily production, then add, over a 24 hour period, up to 2.2 lbs. of this product per dry metric ton of dry fiber. Test for bromine to verify the level of 5 ppm is not being exceeded.]

[Treatment levels can be measured with test kits for either bromine or chlorine; Tests must be made immediately after drawing water samples from the system. Use test kits according to directions: 1.) When a bromine test kit is used, results can be read directly as ppm bromine. 2.) When a chlorine test kit is used, results can be expressed in terms of bromine by multiplying chlorine values by the conversion factor 2.25.]

## **STORAGE AND DISPOSAL**

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

### **PESTICIDE STORAGE:**

Keep product dry and store in a cool, dry, well-ventilated area away from heat or open flame. Store in original container.

### **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:**

{SUPER SACK:} [Completely empty bag into application equipment. Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available.]

{FIBER DRUM:} [Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. 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. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.]

{PAIL:} [Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. 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.]

### **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.

## **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.  
95 MacCorkle Avenue S.W.

6/6

{8622-73}

{HALOGENE® - TAB Master Label Ver.02}

{DOA: 07032013}

South Charleston, WV 25303  
{for DOMESTIC labels only:}{Tel: 1-(800) 811-2327}  
{for INTERNATIONAL labels only:}{Tel: 1-(304) 746-3000}

EPA Reg. No. 8622-73

EPA Est. No. \_\_\_\_\_

[Material][Label] No. \_\_\_\_\_

NET CONTENTS: \_\_\_\_\_ [[lbs.][kg.]

[Batch][Lot] No. \_\_\_\_\_