



U.S. ENVIRONMENTAL PROTECTION AGENCY  
 Office of Pesticide Programs  
 Antimicrobials Division (7510P)  
 1200 Pennsylvania Ave., N.W.  
 Washington, D.C. 20460

**EPA Reg. Number:**

8622-86

**Date of Issuance:**

5/27/15

**NOTICE OF PESTICIDE:**

Registration  
 Reregistration  
 (under FIFRA, as amended)

**Term of Issuance:**

Conditional

**Name of Pesticide Product:**

Bromotop-99

**Name and Address of Registrant (include ZIP Code):**

Levi Howell  
 Regulatory Affairs Specialist  
 ICL-IP America, Inc.  
 South Charleston, WV 25303

**Note:** Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Antimicrobials Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A). You must comply with the following conditions:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

**Signature of Approving Official:**

John Hebert, Chief  
 Regulatory Management Branch I  
 Antimicrobials Division (7510P)

**Date:**

5/27/15

2. Be aware that proposed data requirements have been identified in a Work Plan or proposed DCI. For more information on these proposed data requirements, you may contact the Reevaluation Team Leader (Team 36): <http://www2.epa.gov/pesticide-contacts/contacts-office-pesticide-programs-antimicrobial-division>
3. Make the following label changes before you release the product for shipment:
  - Revise the EPA Registration Number to read, “EPA Reg. No. 8622-86.”
4. Submit one copy of the final printed label for the record before you release the product for shipment.

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.

If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated February 25, 2015
- Alternate CSF (A) dated February 25, 2015
- Alternate CSF (B) dated February 25, 2015

If you have any questions, please contact Terria Northern by phone at 703-347-02645, or via email at [northern.terria@epa.gov](mailto:northern.terria@epa.gov).

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

Bromotop-99

[THIS PRODUCT IS A MICROBIOCIDES FOR USE IN CONTROLLING THE GROWTH OF BACTERIA AND ALGAE IN INDUSTRIAL APPLICATIONS] [AND] [AS A PRESERVATIVE TO INHIBIT BACTERIAL SPOILAGE DURING] [MANUFACTURE], [DISTRIBUTION], [USE AND STORAGE OF INDUSTRIAL], [HOUSEHOLD], [AND] [INSTITUTIONAL PRODUCTS].

Active Ingredient:
2-Bromo-2-nitropropane-1,3-diol:..... 99.9%
Other Ingredients: ..... 0.1%
Total: ..... 100%

KEEP OUT OF REACH OF CHILDREN
DANGER

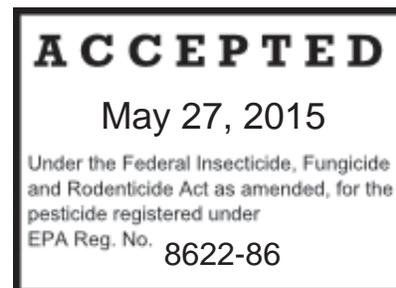


Table with 2 columns: Condition (e.g., If in eyes, If on skin or clothing) and First Aid instructions (bullet points). Includes sections for FIRST AID, EMERGENCY MEDICAL TREATMENT INFORMATION, and NOTE TO PHYSICIAN.

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. Fatal if absorbed through the skin. May be fatal if swallowed. Harmful if inhaled. Causes skin irritation. Do not get in eyes, on skin or on clothing. Avoid breathing dust. Wear goggles and chemical resistant rubber gloves. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, and chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

**PHYSICAL AND CHEMICAL HAZARDS:**

Avoid contact with metal equipment such as scoops, mills and sieves. Reacts with oxidizing agents.

**ENVIRONMENTAL HAZARDS:**

{For end-use products in containers with sizes of less than 50 pounds.}

[This pesticide is toxic to fish.]

{For end-use products in containers with sizes of greater than or equal to 50 pounds.}

[This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, ponds, streams, estuaries, oceans, or public water 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 sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.]

**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.

[To control the growth of slime-forming, spoilage, odor-causing and corrosion inducing bacteria and algae in industrial applications.

**NOT FOR CONTROL OF ALGAE IN THE STATE OF CALIFORNIA.]**

[This product can be dosed directly or by preparing a stock solution immediately prior to application either by open pouring (not cooling water treatment) or by metered pump. For product preservation, this product is best added after any heating stage or when the product has cooled below 40°C. This product may be used in terrestrial and off-shore oil drilling muds and packer fluids. Do not apply by open pouring of liquid to cooling water systems; a metering pump delivery system is required for this use and application method.]

**[INDUSTRIAL RECIRCULATING WATER COOLING TOWERS AND EVAPORATE  
CONDENSERS**

To control slime-forming bacteria and algae in industrial recirculation cooling towers and evaporative condensers, this product must be added as the solid directly into the sump or basin or it must be added to the cooling water return at a suitable point. This product must be added at a point where there is adequate flow or turbulence to ensure quick dissolution (e.g. the pump outlet from the tower sump).

**Frequency and Dose:** This product must be slug-dosed once or twice weekly as a normal routine. Where contamination is heavy, more frequent dosing must be required. This product must be shock-dosed at between 0.21 – 0.84 lbs./1,000 gallons depending on the condition of the tower, the quality of the raw water input, and the amount of bleed off.]

**[PRODUCED WATER**

To inhibit the growth of slime-forming or corrosion-inducing sulfate-reducing bacteria in formation water produced by wells together with oils or gas, this product must be used as the solid or pre-dissolved in a

quantity of warm water or alcohol, the injected into the water-containing oil or gas stream at any convenient point. It must be injected as slug doses, not as a continuous feed.

**Frequency and Dose:** Depending on severity and rapidity of contamination, this product must be slug-dosed from once a week to once a month with 0.018 – 0.036 lbs. per barrel.]

#### **[INDUSTRIAL PROCESS WATER**

Use this product to effectively control bacterial and algal growth in industrial process water, including closed circuit machine cooling (injection molding, etc.) and stored (non-potable) water, as well as to reduce the biofouling of pipework, heat exchanges, condenser tubes, and to minimize microbially produced corrosion. Dosing must be carried out into the sump/tank of the process water system. Shock dosing is preferred. It is not required to dilute this product prior to dosing. This product must also be used as an intermittent, flush treatment during regular maintenance cleaning of tank and equipment.

**Frequency and Dose:** In open systems, shock dosing must be carried out on a once weekly to once monthly basis depending on the degree of contamination. In closed circuit systems, less frequent dosing (once or twice monthly) would be sufficient. Dosing must be carried out to give an initial concentration of 50 ppm (0.42 lbs./1,000 gallons). When the above treatment has been successful, dosing can be lowered to a minimum of 10 ppm of this product (0.08 lbs./1,000 gallons). For intermittent treatment of industrial process waters during routine maintenance, this product must be used at 100 ppm (0.84 lbs./1,000 gallons) and a contact time of at least one hour.]

#### **[DRILLING FLUIDS AND WORKOVER AND COMPLETION FLUIDS**

To inhibit growth of cellulolytic, slime-forming or sulfate-reducing bacteria in oil and gas well drilling muds and brines, this product must be used as the solid or pre-dissolved into a quantity of warm water, then dosed directly into the mud or brine.

**Frequency and Dose:** A single slug dose one to three times each 24 hours. Dosing must be less frequent where the contamination is low. Each slug dose must be 0.018 – 0.036 lbs. per barrel total mud volume.]

#### **[WATERFLOOD**

To inhibit the growth of anaerobic and aerobic bacteria in all waterflood base fluids used in recovery of oil and gas reservoirs, add this product as a dry product or pre-dissolve in any base fluid, or inject directly at the well head.

**Frequency and Dose:** This product must be added continuously to waterflood fluids or slug-dosed, depending on the bottom hold temperature and fluid chemistry at the rate of 25 – 100 ppm (0.009 – 0.036 lbs. per barrel) depending on the quality of the base fluid.]

#### **[INJECTION FLUIDS**

For the control of contamination and corrosion from bacterial sources in fluids/waste fluids that are disposed of through injection into an approved well following approved guidelines, add this product as a dry product or pre-dissolve in each volume of fluid prior to injection.

**Frequency and Dose:** This product must be added at a rate of 50 – 100 ppm (0.018 – 0.036 lbs. per barrel) based on the water percent of the injection fluid.]

#### **[ENHANCED OIL RECOVERY (EOR) FLUIDS**

For the effective control of bacterial growth and eliminating degradation of EOR gels and fluids used in the oil and gas industry, add this product during mixing as a dry product or pre-dissolve and add by injecting during the EOR process.

**Frequency and Dose:** This product must be added throughout the EOR operation at the rate of 50 – 100 ppm (0.018 – 0.036 lbs. per barrel) depending on the quality of the makeup water.]

#### **[WELL SQUEEZE FLUIDS**

For the effective control of aerobic and anaerobic bacteria in squeeze fluids and downhole well bore area, add this product during pre-mixing of the well squeeze fluid or (in the case of direct injection systems) create an aqueous solution that must be added by direction injection at the well head during the well squeeze procedure.

**Frequency and Dose:** This product must be used for each well squeeze operation to ensure best results. Add this product at a rate of 0.21 – 1.68 lbs./1,000 gallons, depending on the quality of the makeup water.]

### **[FRACTURING FLUIDS**

This product must be added during pre-mixing of the fracturing fluid or (in the case of direction mix injection systems) create an aqueous solution that must be added by direction injections of the head during the fracturing procedure. This product reduces bacterial contamination and degradation of fracturing gels and fluids used as well stimulants in the oil and gas industry.

**Frequency and Dose:** This product must be used for each fracturing operation to ensure best results. This product must be added at a rate of 0.42 – 0.84 lbs./1,000 gallons depending on the quality of the makeup water.]

### **[PAPER MILL PROCESS WATER**

To control slime-forming bacteria in paper or paperboard process water systems, this product must be dosed as the solid at a convenient point early in the process system. Suitable dosing points are the machine chest constant head box or backwater loop system.

**Frequency and Dose:** This product must be shock-dosed once, twice, or three times daily in quantities sufficient to meet the required dose based on the daily production of finished products. Dose between 0.02 – 0.5 lbs. of this product per ton of finished paper or paperboard depending on the complexity of the system, quality of the raw paper, and the type and degree of contamination.]

### **[PAPER MILLS-BULK PULP**

To preserve bulk quantities of pulp in paper and paperboard manufacturing systems or to prevent foul odors and general biodeterioration of stock when it is stored in bulk for any significant period of time, add this product as the solid or pre-dissolve in a quantity of warm water, then does directly into the hydropulper, machine chest, or stock chest.

**Frequency and Dose:** In general, a single slug dose will provide protection for up to 3 days or longer depending upon the initial level of contamination in the stock. In situations where contamination is high, repeat dosing every 1 – 7 days as required. This product must be dosed at between 0.09 – 0.44 lbs. per ton of stock (0.42 – 1.7 lbs./1,000 gallons) depending on the type and degree of contamination.]

### **[ABSORBENT CLAYS, CORN COBS, AND GROUND WOOD**

Impregnate absorbent clays, corn cobs, or ground wood with this product to inhibit the growth of odor-causing bacteria. The required application rate is 25 – 200 ppm (0.04 – 0.32 oz. av. per 100 lbs. of absorbent material).]

### **STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:** Product must be stored in an area that is not subject to extreme temperatures. Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed.

**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:**

Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available

**[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, 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.]

**Produced for:**

ICL-IP America, Inc.

95 MacCorkle Avenue S.W.

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-IA

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

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

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

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