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US ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (75-767) WASHINGTON, DC 20460	EPA REGISTRATION NO. 8622-49	DATE OF ISSUANCE JUL 24 1989
	TERM OF ISSUANCE	
NOTICE OF PESTICIDE: <input checked="" type="checkbox"/> REGISTRATION <input type="checkbox"/> REREGISTRATION (Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended)		
NAME OF PESTICIDE PRODUCT Dacthal Plus		

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Americhem, Inc.  
 1250 Broadway  
 New York, NY 10001

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

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

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this 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)(E) provided that you:

1. Submit/date all data required for registration/reregistration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Add the phrase "EPA Registration No. 8622-49" to your label before you release the product for shipment.
3. Submit the results of 12 months storage stability testing which will be completed on December 26, 1989. It must be submitted 15 months after the date of this Registration Notice.
4. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL	DATE
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If these conditions are not complied with, the registration will be subject to cancellation in accordance with 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.



Jeff Kempter  
Product Manager (32)  
Antimicrobial Program Branch  
Registration Division (H7505C)

Enclosures

**BROMIDE PLUS**

**A DISINFECTANT, SANITIZER, BACTERICIDE, ALGICIDE,  
AND ALGICIDE FOR TREATING RECIRCULATING COOLING  
WATER SYSTEMS AND ONCE THROUGH COOLING WATER AND  
WASTEWATER TREATMENT SYSTEMS.**

<b>ACTIVE INGREDIENT:</b> Sodium bromide.....	38.0%
<b>INERT INGREDIENTS:</b> .....	62.0%
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	<b>TOTAL 100 %</b>

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

**STATEMENT OF PRACTICAL TREATMENT**

- If in eyes:** Flush eyes immediately with plenty of water for at least 15 minutes. Get medical attention if irritation persists.
- If on skin:** Wash thoroughly with soap and plenty of water. Remove and wash contaminated clothing before re-use. Get medical attention if irritation occurs.
- If inhaled:** Remove person to fresh air. Get medical attention.
- If swallowed:** Give two glasses of water and induce vomiting. Get medical attention. Do not induce vomiting or give liquids to an unconscious person.

**ACCEPTED**  
with **COMMENTS**  
in EPA Letter Dated:

**JUL 24 1988**

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.

8622-49

**PRECAUTIONARY STATEMENTS**

**HARMFUL IF SWALLOWED**

**AVOID CONTACT WITH EYES**

**USE WITH ADEQUATE VENTILATION**

**WASH THOROUGHLY AFTER HANDLING**

**ENVIRONMENTAL HAZARDS**

Keep out of lakes, streams and ponds. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not discharge into lakes, streams, ponds or public water unless in accordance with NPDES Permit. For guidance, contact you Regional office of EPA. Use this product only as specified on this label.

**PHYSICAL AND CHEMICAL HAZARDS**

Avoid contact with strong oxidizers (other than sodium hypochlorite and chlorine), acids, alkaloidal and heavy metal salts.

**STORAGE AND DISPOSAL**

**STORAGE:** Store in well ventilated, dry area.

**DISPOSAL:** Do not contaminate water, food or feed by storage or disposal. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes can not be disposed of by use in accordance to label instructions, contact your Regional Office of EPA for guidance.

**Metal Containers:** Triple rinse (or equivalent). Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

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

DIRECTIONS FOR USE

BROMIDE PLUS is to be used in conjunction with an oxidant such as sodium hypochlorite (12.5%) or chlorine gas (99.9%) to produce the hypobromous acid.

BROMIDE PLUS may be added at system inlet water or metered into the existing sodium hypochlorite piping to form a solution of sodium hypobromite. Consult your feeder manufacturer for correct procedure and proper use of the feeder equipment.

INDUSTRIAL RECIRCULATING COOLING WATER SYSTEMS

Used effectively at dosages recommended to achieve exposures to 0.5-1.0 part per million (ppm) of "active" residual bromine, or as needed to maintain control of algal, bacterial and fungal slimes in commercial and industrial cooling towers; heat exchange water towers, industrial water scrubbing systems, and influent systems such as flow through filters, lagoons, etc.

Dosage Rates

**Initial Doses:** When noticeably fouled, add sufficient BROMIDE PLUS and chlorine or sodium hypochlorite to achieve the "active" residual bromine level (0.5-1.0 ppm). A 0.5 to 2.0 mole ratio of sodium bromide to oxidant is recommended. Typically, the recommended mole ratio may be achieved by using 1.5-6.0 lbs of chlorine gas (99.9%) or 1.3-5.2 gallons NaOCl (12.5%) for each gallon of BROMIDE PLUS.

**Subsequent dose:** When microbial control is evident, add sufficient BROMIDE PLUS and chlorine or sodium hypochlorite to achieve the "active" residual bromine level (0.5-1.0 ppm). A 0.5 to 2.0 mole ratio of sodium bromide to oxidant is recommended. Typically, the recommended mole ratio may be achieved by using 1.5-6.0 lbs of chlorine gas (99.9%) or 1.3-5.2 gallons NaOCl (12.5%) for each gallon of BROMIDE PLUS.

DIRECTIONS FOR USE (CONTINUED)

## ONCE-THROUGH INDUSTRIAL COOLING WATER SYSTEMS

Used for the control of algal, bacterial and fungal slimes in once-through and closed-cycle fresh and sea water cooling systems. Apply BROMIDE PLUS and chlorine or sodium hypochlorite to the system inlet water or before any other contaminated area in the system.

Dosage Rates

Initial doses: when noticeably fouled, add sufficient BROMIDE PLUS and chlorine or sodium hypochlorite to achieve the "active" residual bromine level (0.5-1.0 ppm). A 0.5 to 2.0 mole ratio of sodium bromide to oxidant is recommended. Typically, the recommended mole ratio may be achieved by using 1.5-6.0 lbs of chlorine gas (99.9%) or 1.3-5.2 gallons NaOCl (12.5%) for each gallon of BROMIDE PLUS.

Subsequent dose: When microbial control is evident, add sufficient BROMIDE PLUS and chlorine or sodium hypochlorite to achieve the "active" residual bromine level (0.5-1.0 ppm). A 0.5 to 2.0 mole ratio of sodium bromide to oxidant is recommended. Typically, the recommended mole ratio may be achieved by using 1.5-6.0 lbs of chlorine gas (99.9%) or 1.3-5.2 gallons NaOCl (12.5%) for each gallon of BROMIDE PLUS.

## WASTEWATER

BROMIDE PLUS, when used as directed, will disinfect wastewater effectively. The amount of sodium bromide required is determined by the degree of fouling. BROMIDE PLUS and chlorine or sodium hypochlorite should be added in quantities sufficient to reach residual bromine levels of 0.3-1.0 ppm (measured about 5 minutes after treatment). The treatment with BROMIDE PLUS can be evaluated by determining whether the total number of coliform bacteria and/or fecal coliform bacteria (using the MPN Procedure) has been reduced to a level permitted by governing regulations.

BROMIDE PLUS can be added to one or several locations of the wastewater system, if its construction permits. It is often added at the influent of the final clarifier or at the point in the system where a secondary treatment is given, prior to effluent discharge.

**DO NOT SHIP WITH FOOD, FEEDS, DRUGS OR CLOTHING**

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

**WARRANTY**

Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with 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.

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Net contents:  
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EPA Reg. No. 8622-

EPA EST. No. 15298-S-1

Manufactured by:  
BROMINE COMPOUNDS LTD.  
P.O. Box 180, Beer-Sheva 84101,  
ISRAEL

For:  
AMERIBROM INC.  
1250 Broadway  
New York, N.Y. 10001  
UNITED STATES OF AMERICA

**IN CASE OF EMERGENCY CONTACT:**

CHEMTEC (800)424-9300 OR AMERIBROM, INC.  
Call Collect: (212)563-4600