

1448-421

7-19-2002

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U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division (H7505C)  
401 "M" St., S.W.  
Washington, D.C. 20460

EPA Reg. Number:

1448-421

Date of Issuance:

JUL 19 2002

NOTICE OF PESTICIDE:

Registration  
 Reregistration

(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

DIALD 45

Name and Address of Registrant (include ZIP Code):

Buckman Laboratories, Inc.  
1256 North McLean, Boulevard  
Memphis, TN 38108

**Note:** Changes in labeling 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 EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistration 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 sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data or other material required for registration/reregistration of your product under FIFRA sec. 3(c)(5) or FIFRA sec. 4 when the Agency requires all registrants of similar products to submit such data.
2. Add the phrase, "EPA Registration No.1448-421" to your label before you release your product for shipment.

Signature of Approving Official:

Marshall Swindell, Product Manager (33)  
Regulatory Management Branch I  
Antimicrobials Division (7510C)

Date:

JUL 19 2002

3. Submit five (2) 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.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 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.

Sincerely,



Marshall Swindell  
Product Manager 33  
Regulatory Management Branch I  
Antimicrobials Division (7501C)

Enclosure

## STORAGE AND DISPOSAL

Product should be stored or disposed of as follows:

### PESTICIDE STORAGE

Resistive to many commonly used materials of construction such as steel, galvanized iron, etc. Solutions can be stored and handled in baked phenolic lined steel, stainless steel or aluminum. This product freezes at approximately -20°C (-4°F). Therefore, unless the storage tank is insulated and insulation may be required. If heating is needed, exposure to high temperatures in storage (1 month) temperatures up to 100°F can be tolerated; however, the preferred storage temperature is approximately 80°F. Keep away from fire and open flames. A stainless steel tank is recommended for transfer service.

### PESTICIDE DISPOSAL

Hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. It cannot be disposed of by use according to label instructions, contact your State Pesticide or Hazardous Waste Representative at the nearest EPA regional office for guidance.

### CONTAINER DISPOSAL

Offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other means approved by State and local authorities.

### GENERAL

For more information, contact your local authorities for approved alternative procedures RCRA Hazardous Waste Code D002.

### DIRECTIONS FOR USE

FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELLING

### RESISTIVE AND RECIRCULATING COOLING WATER SYSTEMS

Apply in industrial air washer systems which have mist-eliminating components. DIALD 45 application rates described below, to a water treatment system at a convenient point of basin area. Addition may be made intermittently (SLUG DOSE) or continuously. Badly fouled systems treated with DIALD 45. Under these conditions, blowdown should be discounted for up to 50%.

**SEMI-CONTINUOUS METHOD:** Initial Dose: When the system is noticeably fouled, add 12.8–25.6 fluid ounces of DIALD 45 per 1,000 gallons of water in the system. Repeat until control is achieved.

**CONTINUOUS METHOD:** When microbial control is evident, add 5.1–12.8 fluid ounces (44–111 ppm) of DIALD 45 per 1,000 gallons of water per day, or as needed to maintain control. Badly-fouled systems must be cleaned before treatment.

**INTERMITTENT METHOD:** Initial Dose: When the system is noticeably fouled, apply 12.8–25.6 fluid ounces of DIALD 45 per 1,000 gallons of water in the system.

**Maintenance:** These treatments by starting a continuous feed of 5.1–12.8 fluid ounces (44–111 ppm) of DIALD 45 per 1,000 gallons of water in the system per day. Badly-fouled systems must be cleaned before treatment.

### HEAT TRANSFER SYSTEMS

Hydrostatic Sterilizers and Retorts, and Pasteurizers and Warmers

When the system is noticeably fouled, add 12.8–25.6 fluid ounces (111–222 ppm) of DIALD 45 per 1,000 gallons of water in the system.

These treatments by starting a continuous feed of 5.1–12.8 fluid ounces (44–111 ppm) of DIALD 45 per 1,000 gallons of water in the system per day. Badly fouled systems must be cleaned before treatment. Add DIALD 45 to the system at a point of uniform mixing such as the basin area, pump area, or other room in which the treated water will be circulated uniformly throughout the system.

### DRILLING AND OIL FIELD PROCESS APPLICATIONS

Use in water flood system and, using this volume, calculate the number of gallons of DIALD 45 to be added.

Apply until control is achieved. For example, 0.10–0.20 gal DIALD 45 per 1,000 gal flood water per day. Add DIALD 45 intermittently.

Each week is recommended to maintain bacterial control. This may be accomplished by adding 0.10–0.20 gal DIALD 45 to each 1,000 gals of total volume.

Use in drilling mud system and using this volume, calculate the number of gallons of DIALD 45 to be added. Levels are for total product.

Apply, depending on the severity of the bacterial contamination. For example, 4.2 gal DIALD 45 of fluid will provide this dilution.

Apply DIALD 45 in a thin stream.

Maintain the proper concentration as the total volume of the system increases with the

**WORKOVER FLUID**  
Calculate the volume of workover fluid system and, using this volume, calculate the number of gallons of DIALD 45 needed.

Use up to 1111 ppm of DIALD 45, depending on the severity of the bacterial contamination. For example, 4.2 gal DIALD 45 per 100 barrels (4,200 gallons) of fluid will provide this dilution.

Add DIALD 45 into the system.

Circulate the workover fluid system until the fluid returns clear. Shut the system down and idle for several hours.

Remove the workover fluid. This well should be ready for productive use.

### PAPER MILLS AND PAPER MILL PROCESS WATER SYSTEMS

DIALD 45 should be added to papermaking systems at a point of uniform mixing, such as the beaters, broke chest pump, save-all tank, or white water tank.

**Initial Treatment:** When the water is noticeably contaminated, add 0.56–2.20 lbs per ton of pulp or paper (dry basis) as a slug dose. Repeat until control is achieved. Heavily-fouled systems should be cleaned prior to initial treatment.  
**Subsequent Dose:** When microbial control is evident add 0.33–2.2 lbs per ton to pulp or paper (dry basis) as a slug dose as necessary to maintain control.

### PIGMENTS AND FILLER SLURRIES FOR FOOD-CONTACT PAPER AND PAPERBOARD

To inhibit the growth of spoilage microorganisms during manufacture, storage and distribution of pigments and filler slurries such as kaolin, calcium carbonate and titanium dioxide.

Add sufficient quantities of DIALD 45 to produce a concentration of 111–667 ppm by weight of the formulation slurry (1.1–6.7 lbs of product per 10,000 lbs of slurry).

### WATER-BASED COATINGS FOR NON-FOOD-CONTACT PAPER AND PAPERBOARD

To inhibit the growth of spoilage microorganisms during manufacture, storage and distribution of water-based coatings for use on non-food-contact paper and paperboard.

Add sufficient quantities of DIALD 45 to produce a concentration of 111–667 ppm by weight of the formulation slurry (1.1–6.7 lbs of product per 10,000 lbs of slurry).

### CONDITIONS OF SALE

The Directions for Use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risk inherently associated with use of this product. Ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of the Seller. All such risks shall be assumed by the Buyer. The manufacturer warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to above.

THE MANUFACTURER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. IN NO CASE SHALL THE MANUFACTURER BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

The manufacturer offers this product, and the Buyer and User accept it, subject to the foregoing Conditions of Sale and Warranty which may be varied only by agreement in writing signed by a duly authorized representative.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

JUL 19 2012

Under the Federal Insecticide  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under EPA Reg. No. 1448-42

Manufactured By:

**Buckman Laboratories, Inc.**

1256 N. McLean Blvd., Memphis, Tennessee 38108, U.S.A.

(901) 278-0330 or 1-800-BUCKMAN

EPA Est. No. 1448-TN-1

EPA Reg. No. 1448-42

Product Weight: 9.3 lbs/gal 1.12 kg/L

NET CONTENTS MARKED ON CONTAINER

HMIS/NPCA RATING

Health 3 Flammability 1 Reactivity 0