

1448-422

6/20/2011

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

JUN 20 2011

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

Buckman Laboratories, Inc.
1256 North McLean Blvd.
Memphis, TN 38108-1241 USA

Attention: Jeffery M. Thorne
Director, Compliance

Subject: DIALD 25
EPA Reg. No.: 1448-422
Amendment Application Dated May 12, 2011

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable. The Agency approves the changes made to the label per the Agency letter dated January 7, 2011.

The label must be revised so the routes of exposure are listed in the same order in both the First Aid and Hazards to Humans and Domestic Animals Sections, organized so that the routes of exposure of most concern (severe routes of exposure) as supported by the toxicity category classification are listed first.

A stamped copy of the accepted labeling is enclosed. Submit three copies of your final printed labeling to the Agency before distributing or selling the product bearing the revised labeling.

If you have any questions concerning this letter, please contact Abigail Downs at (703) 305-5259.

Sincerely,

A handwritten signature in black ink that reads "M. Swindell".

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

2097

DIALD 25

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, by Title 40 CFR, registered under EPA Reg. No. 1448-422

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ACTIVE INGREDIENT(S)	Glutaraldehyde	25.0%
INERT INGREDIENTS:		75.0%
TOTAL		100.00%

KEEP OUT OF REACH OF CHILDREN WARNING

FIRST AID	
If swallowed	<ul style="list-style-type: none"> • Call a poison control center immediately for treatment advice. • DO NOT INDUCE VOMITING • Do not give anything to drink.
If in eyes	<ul style="list-style-type: none"> • Wash immediately and continuously with flowing water for at least 30 minutes. • Remove contact lenses, if present, after the first 5 minutes and continue washing. Obtain prompt medical consultation, preferably from an ophthalmologist. • Call a poison control center or doctor for further treatment advice.
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15–20 minutes. • Call a poison control center or doctor for treatment advice.
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice.
HOT LINE NUMBER	
Have the product container or label with you when calling a Poison Control Center or doctor, or going for treatment. You may also contact 901-767-2722 for emergency medical treatment information.	
NOTE TO PHYSICIAN	
Aspiration may cause lung damage. Probable mucosal damage may contraindicate the use of gastric lavage.	

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING: Corrosive. Causes irreversible eye damage. Causes skin irritation. Harmful or fatal if swallowed or absorbed through skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Causes asthmatic signs and symptoms in hyper-reactive individuals. Do not get in eyes, on skin, or on clothing. Avoid breathing vapor. Do not swallow. Wear goggles or face shield, protective clothing, and rubber gloves (butyl or nitrile) when handling this product. 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.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic organisms. 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 sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

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STORAGE AND HANDLING

DIALD 25 is incompatible with many commonly used materials of construction such as steel, galvanized iron, aluminum, tin, and zinc. DIALD 25 can be stored and handled in baked phenolic-lined steel, polyethylene, stainless steel, or reinforced epoxy-plastic equipment. This product freezes at about 14°F (-10°C). Therefore, unless the storage tank is inside or underground, heating and insulation may be required. If heating is needed, exposure to high temperatures should be avoided. For short storage times (up to about 1 month), temperatures of up to 100°F (37.8°C) can be tolerated but the preferred maximum storage temperature is about 80°F (26.7°C).

A stainless steel centrifugal pump is suggested for transfer service. Spiral-wound stainless steel with TEFLON® Polymer is suitable for gaskets and packing.

Handle in a well-ventilated area. If vapors are irritating to the nose or eyes, special ventilation or respiratory protection (MSHA/NIOSH approved air purifying respirator equipped with an organic vapor cartridge) may be required.

STORAGE AND DISPOSAL

PESTICIDE DISPOSAL: Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Pesticide wastes are toxic. 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 your Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL

(TEXT FOR ALL NONREFILLABLE CONTAINERS)

NONREFILLABLE CONTAINERS: Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container (or equivalent) promptly after emptying. **Plastic Containers:** May be incinerated, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. **Metal Containers:** Must not be incinerated. Do not cut or weld on or near metal containers.

Liquid residue removal statement for nonrefillable containers with capacity of 5 gals or less: Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container half full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for the later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Liquid residue removal statement for nonrefillable containers with capacity of >5 gals: Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container half 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. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

(TEXT FOR ALL NONREFILLABLE CONTAINERS)

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.

(TEXT FOR ALL REFILLABLE CONTAINERS)

REFILLABLE CONTAINERS. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

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IN THE [unclear]

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For containers larger than 55 gallons: To clean the container prior to refilling or disposal, use a pressure wash as follows: Empty the remaining contents into application equipment or a mix tank. Use a pressure wash system that rinses all interior sides with water and that is rated at >40 psi and >120°F. Pressure wash the container for a length of time that ensures that a minimum 25% of the container volume of water is used. During the pressure wash, ensure that the container valve is left open for continuous draining. Collect the rinsate and empty into application equipment or a mix tank or store rinsate for later use or disposal. Allow container to drain for 10 minutes after pressure wash is completed.

For containers 55 gallons and smaller: To clean the container prior to refilling or disposal, use a triple rinse wash as follows: Empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10 percent full with water. Agitate vigorously. Pour or pump rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this rinsing procedure two more times.

Do not discharge rinsate containing this product 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 rinsate containing this product to sewer systems without prior approval from the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

Batch code: _____

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

AIR WASHERS AND INDUSTRIAL SCRUBBING SYSTEMS/RECIRCULATING COOLING AND PROCESS WATER SYSTEMS: This product may be used only in industrial air washer systems which have mist-eliminating components. DIALD 25 should be added at the application rates described below, to a water treatment system at a convenient point of uniform mixing such as the basin area. Addition may be made intermittently (SLUG DOSE) or continuously. Badly fouled systems can be shock treated with DIALD 25. Under these conditions, blowdown should be discontinued for up to 24 hours.

DIALD 25 can be used in industrial process water systems that contain ultra filtration units and non-medical reverse osmosis membranes (where approved for compatibility by the membrane manufacturer) and associated distribution systems.

INTERMITTENT (SLUG DOSE) METHOD: Initial Dose: When the system is noticeably fouled, apply 24–48 fluid ounces of DIALD 25 per 1,000 gallons of water in the system. Repeat until control is achieved. **Subsequent Dose:** When microbial control is evident, add 9.6–24 fluid ounces of DIALD 25 per 1,000 gallons of water in the system weekly, or as needed to maintain control. Badly-fouled systems must be cleaned before treatment is begun.

CONTINUOUS FEED SYSTEM: Initial Dose: When the system is noticeably fouled apply 24–48 fluid ounces of DIALD 25 per 1,000 gallons of water in the system. **Subsequent Dose:** Maintain this treatment level by starting a continuous feed of 4.8–24 fluid ounces of DIALD 25 per 1,000 gallons of water in the system per day. Badly fouled systems must be cleaned before treatment is begun.

SERVICE WATER AND AUXILIARY SYSTEMS: DIALD 25 should be used at the same application rates, and in the same manner as described above. It should be added to the system at a point that will allow for uniform mixing throughout the system.

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In EPA Letter Dated:

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HEAT TRANSFER SYSTEMS: (Evaporative Condensers, Dairy Sweetwater Systems, Hydrostatic Sterilizers and Retorts, and Pasteurizers and Warmers and Once-Through Cooling Water Systems). DIALD 25 should be used at the same application rates, and in the same manner as described above. It should be added to the system at a point of uniform mixing such as a basin area, sump area, or other reservoir or collecting area from which the treated water will be circulated uniformly throughout the system.

INDUSTRIAL WASTEWATER SYSTEMS: (Wastewater Systems, Wastewater Sludge and Wastewater Holding Tanks). DIALD 25 should be added to a wastewater system or sludge at a convenient point of uniform mixing such as the digester. Add 10.8 to 54 fluid ounces (0.63 pints to 3.4 quarts) (900 to 4,500 ppm) DIALD 25 per 1,000 gallons of wastewater or sludge.

MACROFOULING CONTROL: (*Not for use in the state of California). DIALD 25 should be added continuously to maintain a level of 20 ppm active ingredient in the system for a period of at least 96 hours. Initial Dose: When macrofouling is present in the system, apply 9.6 fluid ounces of DIALD 25 per 1,000 gallons of water in the system. Continue to add as needed to maintain the 20 ppm active ingredient level for a period of at least 96 hours.

PAPER MILLS AND PAPER MILL PROCESS WATER SYSTEMS: DIALD 25 should be added to paper making system at a point of uniform mixing such as the beaters, broke chest pump, save-all tank, or white-water tank. **Initial Dose:** When the system is noticeably contaminated, add 1.0–6.0 lbs of DIALD 25 per ton of pulp or paper (dry basis) as a slug dose. Repeat until control is achieved. Heavily-fouled systems should be boiled out prior to initial treatment. **Subsequent Dose:** When microbial control is evident add 0.6–4.0 lbs of DIALD 25 per ton of pulp or paper (dry basis) as a slug dose as necessary to maintain control.

PIGMENTS AND FILLER SLURRIES FOR PAPER AND PAPERBOARD: (For use in food and non-food contact pigments and filler slurries). Use from 0.2 to 1.2 lbs of DIALD 25 per 1,000 lbs dry powder to produce a concentration of 200 to 1,200 ppm as product (based on slurry solids) in the mixed slurry.

WATER-BASED COATINGS FOR PAPER AND PAPERBOARD: (For use in non-food contact coatings only). Use from 0.2 to 1.2 lbs of DIALD 25 per 1,000 lbs dry powder to produce a concentration from 200 to 1,200 ppm as product (based on slurry solids) in the mixed slurry.

AQUEOUS METALWORKING FLUIDS: DIALD 25 should be added to a metalworking fluid system at a point of uniform mixing such as the fluid collection tank. Additions may be made intermittently (SLUG DOSE) at intervals of one week or less. **Initial Dose:** When the system is noticeable fouled apply 4.8 to 14.4 fluid ounces (100 to 300 ppm active) of DIALD 25 per 100 gallons of metalworking fluid to the system. Repeat until control is achieved. **Subsequent Dose:** When microbial control is evident, add 1.9 to 9.6 fluid ounces (40 to 200 ppm active) of DIALD 25 per 100 gallons of metalworking fluid to the system weekly, or as needed to maintain control. Badly fouled systems should be cleaned before treatment is begun.

WATER BASED CONVEYOR LUBRICANTS: (Brewery, Juice, Dairy, Beverage, and Food Processing Systems). **Avoid contamination of food in application of product.** Thoroughly clean all tracks and conveyors to remove gross soil. Rinse well. Use an automatic feed system to provide 2.4 to 14.4 fluid ounces (50 to 300 ppm active) of DIALD 25 per 100 gallons of diluted lubricant.

GENERAL PRESERVATIVE USE: DIALD 25 is recommended for use in aqueous or water containing products and systems, including industrial, institutional and consumer in-can processes and products,

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to control the growth of bacteria and fungi. For effective preservation, add DIALD 25 to the product formulation at a rate of 0.04% to 0.4% based on the water content of the product (0.4 to 4.0 lbs DIALD 25 per 1,000 lbs water content). Mix uniformly.

PRESERVATIVE FOR CONCENTRATES: For use in concentrates where effective preservation is needed after dilution, add DIALD 25 to the product formulation at a rate such that the diluted end-use product will contain 0.04% to 0.40% DIALD 25. **At no time during the preservation process should the level of DIALD 25 exceed 4.0%.**

REVERSE OSMOSIS MEMBRANES: For effective preservation of reverse osmosis elements (where approved for compatibility by membrane manufacturer), immerse elements in a tank containing 0.4% to 4.0% DIALD 25. DIALD 25 can also be added to in-line recirculating systems for preservation of installed out-of-service reverse osmosis equipment (where approved for compatibility by membrane manufacturer). Add 0.4% to 4.0% DIALD 25 to the tank in the circulating system. Maintain the concentration of DIALD 25 by periodic addition to counteract any system leakage.

CONCRETE ADMIXTURES: For effective preservation of concrete admixtures, add DIALD 25 to the product formulation at a rate of 4,000 to 16,000 ppm based on the weight of the admixture (4.0 to 16.0 lbs DIALD 25 per 1,000-lbs concrete admixture). Mix uniformly.

WATER FLOODS: DIALD 25 should be added to a water flood system at a point of uniform mixing. **Initial Treatment:** When the system is noticeably contaminated, add 200 to 10,000 ppm DIALD 25 to the system (0.2 to 9.4 gallons DIALD 25 per 1,000 gallons flood water). Repeat until control is achieved. **Subsequent Dose:** When microbial control is evident, add 40 to 10,000 ppm DIALD 25 (0.04 to 9.4 gallons DIALD 25 per 1,000 gallons flood water) to the system weekly, or as needed to maintain control.

DRILLING, COMPLETION, AND WORKOVER FLUIDS: DIALD 25 should be added to a drilling fluid system at a point of uniform mixing. **Initial Treatment:** Add 100 to 2,000 ppm DIALD 25 (0.4 to 7.9 gallons DIALD 25 per 100 barrels of fluid) to a freshly prepared fluid depending on the severity of contamination. **Maintenance Dosage:** Maintain a concentration of 100 to 2,000 ppm DIALD 25 by adding 0.4 to 7.9 gallons of DIALD 25 per 100 barrels of additional fluid, or as needed, depending on the severity of contamination.

PACKER FLUIDS: DIALD 25 should be added to a packer fluid at a point of uniform mixing such as a circulating holding tank. Add 100 to 1,200 ppm DIALD 25 (0.4 to 4.7 gallons DIALD 25 per 100 barrels of fluid) to a freshly prepared fluid depending on the severity of contamination. Seal the treated packer fluid in the wall between the casing and production tube.

GAS PRODUCTION AND TRANSMISSION PIPELINES AND SYSTEMS: DIALD 25 should be added to a gas production or transmission pipeline via direct injection. The application should be conducted to ensure maximum distribution of the DIALD 25 through the entire internal surface of the pipeline. To facilitate application, it may be desirable to dilute the DIALD 25 with an appropriate solvent immediately before use. Injections to the system should be weekly, or as needed to maintain control.

GAS STORAGE WELLS AND SYSTEMS: Individual injection wells should be treated with a sufficient quantity of DIALD 25 to produce a concentration of 1,000 to 10,000 ppm DIALD 25 when diluted by the water present in the formulation. Injection should take place before gas is injected (during the summer). Injections should be repeated yearly, or as needed to maintain control. Individual drips should be treated with a sufficient quantity of DIALD 25 to produce a concentration of 400 to 4,000 ppm DIALD 25 when diluted by the water present in the drip. Injections should be repeated yearly, or as needed to maintain control.

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HYDROTESTING: Water used to hydrotest pipelines or vessels should contain 200 to 8,000 ppm DIALD 25 (0.2 to 7.5 gallons DIALD 25 per 1,000 gallons water), depending on water quality and length of time the equipment will remain idle.

PIPELINE PIGGING AND SCRAPING OPERATIONS: Add DIALD 25 to a slug of water immediately following the scraper (ideally this water volume can be kept to a minimum and contained between the scraper and a trailing pig). Sufficient DIALD 25 should be added to produce a concentration of 0.2 to 2.0% (0.2 to 1.9 gallons DIALD 25 per 100 gallons water), depending on the length of the pipeline and the severity of biofouling.

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with COMMENTS
for EPA Letter 1448-422

JUN 20 2011

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

1448-422

Manufactured by:

Buckman Laboratories, Inc.

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

(901) 278-0330 or 1-800-282-5626

EPA Est. No. 10352-WV-2^(A); 464-WV-1^(B) EPA Reg. No. 1448-422

(A) 5-gallon pails in pallets; all drums; bulk. (B) Single 5-gallon pails only.

Product Weight: 8.7 lbs/gal 1.04 kg/L

NET CONTENTS MARKED ON CONTAINER

HMIS/NPCA RATING

Health 3 Flammability 1 Reactivity 0

Revised: 03/11/11