

1/1 1448-188 171-31

D-10-4

NOT RECOMMENDED  
In accordance with EPA Notice 82-2.  
Based on information listed

**ACTIVE INGREDIENT:**

Potassium dimethyldithiocarbamate ..... 10.0%  
INERT INGREDIENTS ..... 90.0%

This product contains 0.87 lb. of active ingredient per gallon and weighs 8.68 lb. per gallon.

**KEEP OUT OF REACH OF CHILDREN  
DANGER**

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER:** Corrosive. Causes eye and skin damage. Harmful if swallowed. Do not get in eyes, on skin, or on clothing. Avoid contamination of food. Wear goggles or face shield and rubber gloves when handling. Wash thoroughly after handling.

**STATEMENT OF PRACTICAL TREATMENT:** *In case of skin contact*, wash with plenty of soap and water. Remove contaminated clothing and wash before reuse. *If product gets in the eyes*, flush immediately with copious amounts of clean, cool water for at least 15 minutes. Get medical attention immediately. *If product is swallowed*, promptly drink 1 or 2 glasses of water. Contact a physician or Poison Control Center immediately. **DO NOT INDUCE VOMITING.**

*Note to physician:* Probable mucosal damage may contraindicate gastric lavage.

**ENVIRONMENTAL HAZARDS:** This pesticide is toxic to fish. Do not apply in marine and/or estuarine oil fields. Do not discharge effluent containing this active ingredient into lakes, streams, ponds, estuaries, oceans, or public waters unless this product is specifically identified and addressed in an NPDES permit. 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.

Manufactured by:  
**BUCKMAN LABORATORIES, INC.**  
1256 NORTH McLEAN BOULEVARD  
MEMPHIS, TN 38108

EPA REG. NO. : 1448-188

EPA EST. NO. \_\_\_\_\_

NET CONTENTS \_\_\_\_\_

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

D-10-4 \_\_\_\_\_ is used in industrial and/or commercial recirculating cooling tower systems and industrial air-washing systems to control microbiological slime. Prior to the use of D-10-4 \_\_\_\_\_ in industrial and/or commercial recirculating cooling tower systems, systems should be cleaned to remove algal growth, microbiological slime, and other deposits. Then make an initial slug addition of 12.0 to 17.9 fl. oz. of D-10-4 \_\_\_\_\_ per 1000 gal. of water to provide 100 to 150 ppm of D-10-4 \_\_\_\_\_, based on total weight of water in the system. Repeat initial dosage until control is evident. Make subsequent slug addition of 6.0 to 17.9 fl. oz. of D-10-4 \_\_\_\_\_ per 1000 gal. of water (50 to 150 ppm D-10-4 \_\_\_\_\_) every 2 to 5 days or as needed. The frequency of addition depends upon the relative amount of bleedoff and the severity of the microbiological problem. Slug additions should be made in the sump of recirculating cooling tower systems.

D-10-4 \_\_\_\_\_ is used in industrial air-washing systems which maintain effective mist-eliminating components. Prior to its use, systems should be cleaned to remove bacterial slime and other deposits. An initial slug dose of 28.1 to 35.9 fl. oz. of D-10-4 \_\_\_\_\_ per 1000 gal. of water is recommended. Repeat initial dosage until control is evident. Subsequent slug additions of 21.0 to 35.9 fl. oz. of D-10-4 \_\_\_\_\_ per 1000 gallons of water should be employed every 1 to 5 days, or as needed. The frequency of addition depends upon the relative amount of bleedoff and severity of the bacterial problem. Slug additions may be made to the sump or the water collection trays of the airwash system.

D-10-4 \_\_\_\_\_ is used to control sulfate-reducing bacteria petroleum secondary-recovery waterflooding operations. In systems fouled with microbiological deposits, D-10-4 \_\_\_\_\_ should be added as a slug dose to provide a concentration of 40 to 80 ppm (5.0 to 10.0 oz. of D-10-4 \_\_\_\_\_ per 1000 gal. of water treated). This should be followed by a continuous addition of D-10-4 \_\_\_\_\_ employing chemical-metering pump to maintain a concentration of 40 ppm, based on to weight of water treated. Both slug additions and continuous addition D-10-4 \_\_\_\_\_ should be made at the heater-tree dump, gathering lines, or receiving tanks. Addition should always be made upstream the filter.

D-10-4 \_\_\_\_\_ is also used to inhibit the growth of fungi and bacteria in water-based drilling fluids, completion fluids, packer fluids, and other water-based drilling fluids containing starch, gums, sugars, or other organic materials. For these purposes D-10-4 \_\_\_\_\_ is added at rates of 15 to 25 gal per 100 barrels of fluid (0.36 to 0.60% by volume).

**STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage or disposal.  
**STORAGE:** Do not expose to extreme temperatures. Do not stack more than four drums high. Leaking or damaged drums should be placed in overpack drums for disposal. Spills should be absorbed in sawdust or sand and disposed of in a sanitary landfill. Keep container closed when not in use.

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or residue is a violation of Federal Law. If these wastes cannot be disposed of by use according to label directions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative your EPA Regional Office for guidance.

**CONTAINER DISPOSAL:**  
 **PLASTIC:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in sanitary landfill, by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out smoke.  
 **METAL:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in sanitary landfill, or by other procedures approved by state and local authorities.

1256 North McLean Boulevard  
Memphis, TN 38109

**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.

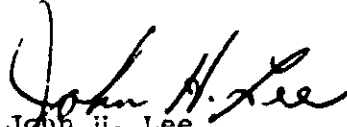
Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any 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)(A) provided that you:

1. Submit site 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. 1448-188" to your label before you release the product for shipment.
3. 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.

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.

  
John H. Lee  
Product Manager (31)  
Antimicrobial Program Branch  
Registration Division (TS-767C)

Enclosures

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

DATE

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

D-10-4

DEC 20 1988

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

ACTIVE INGREDIENT:

Potassium dimethyldithiocarbamate ..... 10.0%

INERT INGREDIENTS ..... 90.0%

This product contains 0.87 lb. of active ingredient per gallon and  
weighs 8.68 lb. per gallon.

**KEEP OUT OF REACH OF CHILDREN  
DANGER**

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HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

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*Note to physician:* Probable mucosal damage may contraindicate gastric lavage.

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**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner not consistent with its labeling.

D-10-4 is used in industrial and/or commercial recirculating cooling tower systems and industrial air-washing systems to control microbiological slime. Prior to the use of D-10-4 in industrial and/or commercial recirculating cooling tower systems, systems should be cleaned to remove algae, microbiological slime, and other deposits. Then make an initial slug addition of 17.9 fl. oz. of D-10-4 per 1000 gal. of water (100 to 150 ppm of D-10-4), based on total volume of water in the system. Repeat initial dosage until control is evident. Make subsequent slug additions of 6.0 to 17.9 fl. oz. of D-10-4 per 1000 gal. of water (50 to 150 ppm D-10-4) every 1 to 5 days or as needed. The frequency of addition depends upon the relative amount of bleedoff and the severity of the microbiological problem. Slug additions should be made to the sump of recirculating cooling tower systems.

D-10-4 is used in industrial air-washing systems to maintain effective mist-eliminating components. Prior to its use, systems should be cleaned to remove bacterial slime and other deposits. An initial slug dose of 35.9 fl. oz. of D-10-4 per 1000 gal. of water should be added. Repeat initial dosage until control is evident. Subsequent slug additions of 21.0 to 35.9 fl. oz. of D-10-4 per 1000 gal. of water should be employed every 1 to 5 days, or as needed. The frequency of addition depends upon the relative amount of bleedoff and severity of the bacterial problem. Slug additions may be made to the sump or the water collection trays of the air-washing system.

D-10-4 is used to control sulfate-reducing bacteria in petroleum secondary-recovery waterflooding operations. In systems with microbiological deposits, D-10-4 should be added as a slug dose to provide a concentration of 40 to 80 ppm (5.0 to 10.0 fl. oz. of D-10-4 per 1000 gal. of water treated). This should be followed by a continuous addition of D-10-4 through a chemical-metering pump to maintain a concentration of 40 ppm, based on the weight of water treated. Both slug additions and continuous additions should be made at the head of the dump, gathering lines, or receiving tanks. Addition should always be made upstream of the filter.

D-10-4 is also used to inhibit the growth of bacteria in water-based drilling muds, completion fluids, packer fluids, and other water-based drilling fluids containing starch, gums, sugars, or other organic materials. For these purposes D-10-4 is added at rates of 15 to 30 gal. per 100 barrels of fluid (0.36 to 0.60 by volume).

**STORAGE AND DISPOSAL**

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**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or residue is a violation of Federal Law. If these wastes cannot be disposed of by use according to label directions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Response Team for guidance. **YOUR EPA Regional Office for guidance.**

**CONTAINER DISPOSAL:**

**PLASTIC:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and crush in a sanitary landfill, by incineration, or, if allowed by state and local authorities, by burning. If burned, must be done in a controlled environment.

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