

31910-2

PM 31

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OCT 11 1988

Alco Chemical Corporation
909 Mueller Drive
P.O. Box 5401
Chattanooga, TN 37406

Attention: George T. McGrew
Vice President, Technology

Gentlemen:

Subject: Aquatreat DMM-30
EPA Registration No. 31910-2
Your Amendment Dated June 29, 1988

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), is acceptable provided that you:

1. Make the labeling changes listed below before you release the product for shipment bearing the amended label:

a. Delete the statement:

This product must not be used to formulate products for use in leather, leather processing liquors, metalworking cutting fluids, ornamental plants or sugar beet flume water.

Note: This product is an end-use product. This product should not be used to formulate other products; therefore, the statement is inappropriate.

b. Revise the statement (left panel):

Hazardous to Humans . . .

to read:

Hazards to Humans

59795:I:Lee:L-7:KENCO:9/22/88:11/4/88:CT:PR:VO:JH:CT

CONCURRENCES

SYMBOL							
SURNAME							
DATE							

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c. The following form of ingredient statement complies with FIFRA.

ACTIVE INGREDIENTS:	
Name of Ingredient	15%
Name of Ingredient	15%
INERT INGREDIENTS:	70%
 TOTAL	 100%

Note: Delete the precentage (30%).

d. Delete the word: milk (center panel).

2. Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

A stamped copy of the labeling is enclosed for your records.

If you have any questions concerning this letter, please contact Valdis Goncarovs at (703) 557-3653.

Sincerely yours,

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

Enclosure

PRECAUTIONARY STATEMENTS

Hazardous to Humans and Domestic Animals.

WARNING

Causes eye and skin irritation. Do not get in eyes, on skin or on clothing. Wear goggles or face shield, rubber gloves and protective clothing (hats, long sleeve shirt, long pants and boots) when handling. Harmful if swallowed. Avoid contamination of food and feedstuffs.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Do not apply (or use) in estuarine or field where drilling fluids (muds) are discharged in the surface water. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not discharge treated effluent into lakes, streams, ponds or public waters unless in accordance with an NPDES permit. For guidance contact your Regional Office of the Environmental Protection Agency.

AQUATREAT DNM-30 is a highly effective bactericide and fungicide for use in controlling the growth of bacteria and fungi found in paper mills, drilling fluids, secondary and tertiary petroleum recovery, fracturing fluids, workover and completion fluids, hydrocarbon fluids storage, beet sugar mills, and cane sugar mills.

AQUATREAT DNM-30, in addition to being a bactericide and fungicide, is a highly effective algaecide for use in controlling the growth of algae, as well as bacteria and fungi, found in industrial recirculating water cooling towers, evaporative condensers, and air washers.

STORAGE AND DISPOSAL

1. PROHIBITIONS

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

2. PESTICIDE DISPOSAL

Pesticide wastes are toxic. 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 instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

3. CONTAINER DISPOSAL

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

Plastic Containers: Triple rinse (or equivalent). Then offer for recycling or 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.

4. GENERAL

Consult Federal, state or local disposal authorities for approved alternative procedures.

AQUATREAT DNM-30

ACTIVE INGREDIENTS.....	30%
Sodium Dimethylthiocarbamate	15%
Nabam (Disodium Ethylene Bis-dithiocarbamate)	15%
INERT INGREDIENTS.....	70%
TOTAL.....	100%

KEEP OUT OF REACH OF CHILDREN

WARNING

STATEMENT OF PRACTICAL TREATMENT

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes, call a physician. Remove and wash contaminated clothing before reuse.

If swallowed, drink promptly a large quantity of milk, egg whites, gelatin solution or if these are not available, drink large quantities of water. Call a physician immediately.

See Side Panel For Additional Precautionary Statements.



Manufactured by:

ALCO Chemical Corporation
AN ALCO INDUSTRIES COMPANY

909 Mueller Drive • P.O. Box 5401
Chattanooga, Tennessee 37406
Phone: 615-629-1405 • FAX 615-698-8723

EPA Establishment No 31910-TN-1
EPA Registration No 31910-2
Net Contents: Liquid

See Markings on Top of Drum for Net Weight

Cooling Tower Air Washers



DIRECTION FOR USE

It is a violation of Federal Law to use or sell a pesticide not consistent with its labeling.

This product must not be used on a crop or to formulate any product for use on a crop.

INDUSTRIAL RECIRCULATING COOLING TOWER EVAPORATIVE CONDENSERS

Dosage for industrial recirculating tower or evaporative condenser: The condition of the system prior to treatment. Systems which are heavily fouled should be cleaned first. Add AQUATREAT DNM-30 to the cleaned system: first noticed, according to the following INITIAL DOSE: Apply 13.06-43.60 per each 1000 gallons of water (1-400 ppm). This dose may be repeated (three times weekly or as required) until the growth of slime-forming organisms is controlled. SUBSEQUENT DOSE: When no growth is evident add 2.18-4.36 fluid ounces AQUATREAT DNM-30 per 1000 gallons of water to the system every three days or

AIR WASHERS

In treating air washer systems: Pre-cleaning a suitable detergent system and allow air washers to run for two hours. Check all nozzles and clean those that are plugged. Feeding: AQUATREAT DNM-30 from the drum or diluted with water to a suitable feed system. AQUATREAT DNM-30 be dosed directly into the suit other location where good distribution is assured.

INITIAL DOSE: Apply 13.06-21.80 per each 1000 gallons of water (200 ppm). This dose may be repeated (three times weekly or as required) until the growth of slime-forming organisms is controlled. SUBSEQUENT DOSE: When no growth is evident add 2.18-4.36 fluid ounces AQUATREAT DNM-30 per 1000 gallons of water to the system every three days or

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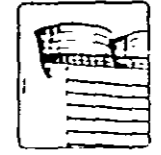
ACCEPTED
with COMMENTS
in 1988

OCT 11 1988

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Cooling Towers and Air Washers

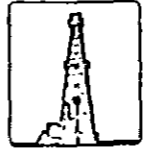


DIRECTION FOR USE

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

This product must not be used on any food or field crop or to formulate any product for use on any food or field crop.

Drilling Fluids



DRILLING FLUIDS

AQUATREAT DNM-30 is a highly effective microbicide for use in controlling growth of fungi and bacteria found in water based drilling muds. It is especially useful in muds containing starches, Xanthanate gums, and wood sugars. The uncontrolled growth of these fungi and bacteria can cause increased corrosion, undesirable odors, and degradation of the drilling mud, especially fluid loss properties.

AQUATREAT DNM-30 is used at the rate of 1 to 5 gallons per 100 bbl. of mud. (0.02% to 0.1%). It can be used directly from the shipping container or pre-diluted with water. It can be put in through the mud hopper or added to the pump suction.

Secondary and Tertiary Oil Recovery



SECONDARY AND TERTIARY PETROLEUM RECOVERY

AQUATREAT DNM-30 is a highly effective microbicide for use in controlling the growth of fungi and bacteria found in secondary and tertiary petroleum recovery waterflood systems.

AQUATREAT DNM-30 can be injected directly from the shipping container. It should be thoroughly mixed into the produced water, fresh or salt water or condensed water or the secondary or tertiary oil recovery waterflood systems for effective microorganism control. It may also be diluted with water for injection.

AQUATREAT DNM-30 is used at the rate of 1 pint per 100 bbl. of water for growth inhibition of *Bacillus Cereus* and *Desulfovibrio desulfuricans* and 1.1 to 1.8 gallons per 100 bbl. of water for heterotrophic bacteria including *Pseudomonas*. It is also effective against many fungi such as *Aspergillus*, *Penicillium* and *Trichoderma* at the 1 pint per 100 bbl. of water.

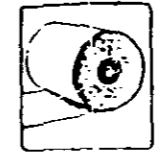
FRACTURING FLUIDS

AQUATREAT DNM-30 is a highly effective microbicide for controlling the growth of bacteria in fracturing fluids. The application rates are 0.9 to 2.25 lbs. per 1000 gallons of fracturing fluids. AQUATREAT DNM-30 may be added and premixed prior to the fracturing operation or may be added directly from the drum to the blender during the operation.

WORKOVER & COMPLETION FLUIDS

AQUATREAT DNM-30 is a highly effective microbicide for use in controlling the growth of fungi and bacteria found in water based workover and completion fluids. AQUATREAT DNM-30 is used at the rate of 1-4 quarts per 1000 gallons (0.025%-0.100%) of workover or completion fluids.

Pulp & Paper



HYDROCARBON FLUIDS

AQUATREAT DNM-30 is a highly effective fungicide and bactericide for use in fuel oil (No. 2 oil, intermediate fuel oil and No. 6 oil), lubricating oil and hydraulic fluids in marine environments.

AQUATREAT DNM-30 is applied initially at a level of 2.3 pints per 1000 gallons of contaminated liquid (300 ppm by weight). Subsequent dosages may be decreased once the contaminants have been brought under control.

PAPER MILLS

Dosage will vary from 0.1 to 2.0 pounds (0.04 to 0.81 quarts) of AQUATREAT DNM-30 per ton of finished paper depending on the type of stock, complexity of the system, quality of raw water, and type and degree of contamination.

FEEDING: AQUATREAT DNM-30 may be drip fed continuously from the drum or fed by suitable chemical pumps such as adjustable proportioning types; variable speed, positive displacement types; or by the reciprocating type. This product should be fed as early as possible in the system at such points including the hydropulper machine chest or broke system.

AQUATREAT DNM-30 can be used to control slime on machines which can make paper and paperboard for use in food packaging. AQUATREAT DNM-30 complies with Title 21 Code of Federal Regulations section 176.320 of the Food Additive Regulations and may be used under conditions specified in the regulations.

BEET SUGAR MILLS

AQUATREAT DNM-30 should be fed directly into the pulp press areas during sugar extraction of beets to keep equipment free of bacterial slime deposits. It is to be used at the rate of 10-20 ppm of raw beets sliced, and fed continuously with a metering pump. A portion of the AQUATREAT DNM-30 may be fed into other streams entering the diffuser deck at a minimum rate of 4 ppm. The maximum total rate of all streams to be fed is 20 ppm. Refer to Composite Table 1 for the proper dosage in milliliters and ounces of AQUATREAT DNM-30 to be used per minute.

CANE SUGAR MILLS

AQUATREAT DNM-30 is a liquid which should be fed directly into the cane juice so that the treated juice circulates to all parts of the mill tandem. The point or points of addition will depend on mill design. Frequently the dosage will be split between the crusher juice and juice from the last mill. The best addition point is to the juice which is circulated back to the crusher from the last mill. Do not add this product to the maceration water.

AQUATREAT DNM-30 should be fed continuously at the rate of 10-20 parts of product per million parts of cane ground per day. 10 ppm of product is the standard dosage. This may be raised up to a

Sugar



maximum of 20 ppm, if necessary. Conditions warranting some increase would be warranted when grinding cane damaged through freezing, poor weather or delays between cutting and grinding. See feeding directions which follow.

Proper feed of AQUATREAT DNM-30 is best obtained through the use of a chemical feed pump such as the adjustable proportioning type; the variable speed, positive displacement type; or the reciprocating type. The required dosage will depend on the average daily rate of cane ground. Refer to composite table 1 for the proper dosage in milliliters and ounces of AQUATREAT DNM-30 to be used per minute.

Do not exceed feed rate of 4 gallons (39.2 pounds) of product per 1000 short tons of cane ground per twenty-four hours.

The use of AQUATREAT DNM-30 does not replace good housekeeping. This should include regular cleaning at least once per shift. Regular hosing with hot water and steam of mills, bagacillo conveyors, and screens is essential for maintaining efficient control of microbiological slime and sucrose losses.

COMPOSITE TABLE 1

SHORT TONS OF CANE GROUND OR RAW BEETS SLICED PER DAY	Rate of Feed of AQUATREAT DNM-30 10 ppm		20 ppm	
	ml/min	oz/min	ml/min	oz/min
1,000	5.5	0.186	11	0.372
2,000	11.0	0.372	22	0.744
3,000	16.5	0.558	33	1.115
4,000	22.0	0.744	44	1.487
5,000	27.5	0.930	55	1.859
6,000	33.0	1.115	66	2.231
7,000	38.5	1.301	77	2.603
8,000	44.0	1.487	88	2.974
9,000	49.5	1.673	99	3.347
10,000	55.0	1.859	110	3.718

This product complies with Title 21 Code of Federal Regulations Section 173.320 (Chemicals used for the Control of Microorganisms in Cane and Beet Sugar Mills) of the Food Additive Regulations and may be used under conditions specified in the regulations.

For Chemical Emergency
Spill, Leak, Fire, Explosive, or Accident
Call CHEMTREC — Day or Night
1-800-424-9300

Seller makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk of use, and/or handling of this material, when such use and/or handling is contrary to label instructions.

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- ... 30%
- 15%
- 70%
- 100%

CHILDREN

eyes or skin
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quantity of
these are
water. Call

ents.



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INDUSTRIAL RECIRCULATING WATER COOLING TOWER AND EVAPORATIVE CONDENSERS

Dosage for industrial recirculating water cooling tower or evaporative condensers will depend on the condition of the system prior to treatment initiation. Systems which are heavily contaminated should be cleaned first. Apply AQUATREAT DNM-30 to the cleaned system or when growth is first noticed, according to the following schedule: INITIAL DOSE: Apply 13.06-43.60 ounces of product per each 1000 gallons of water in the system (120-400 ppm). This dose may be repeated once, twice or three times weekly or as required to control the growth of slime-forming organisms.

SUBSEQUENT DOSE: When microbial control is evident add 2.18-4.36 fluid ounces of AQUATREAT DNM-30 per 1000 gallons of water (20-40 ppm) in the system every three days or as needed.

AIR WASHERS

In treating air washer systems preclean by introducing a suitable detergent solution into the system and allow air washers to run with fan off for two hours. Check all nozzles and manually clean those that are plugged.

Feeding: AQUATREAT DNM-30 may be fed directly from the drum or diluted with water and fed by any suitable feed system. AQUATREAT DNM-30 should be dosed directly into the sump or basin or any other location where good distribution can be assured.

INITIAL DOSE: Apply 13.06-21.80 ounces of product per each 1000 gallons of water in the system (120-200 ppm). This dose may be repeated once, twice or three times weekly or as required to control the growth of slime-forming organisms.

SUBSEQUENT DOSE: When microbial control is evident add 2.18-4.36 fluid ounces of AQUATREAT DNM-30 per 1000 gallons of water (20-40 ppm) in the system every three days or as needed.

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