

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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Mr. Chester J. Kawa, Jr.
Alco Chemical Division
National Starch & Chemical Company
909 Mueller Drive
P.O. Box 5401
Chattanooga, TN 37406

Dear Mr. Kawa:

Subject: Amended Labeling in Response to the EBDC PD-4
Aquatreat DNM-30, Alcotreat Los, Alcotreat Mos
EPA Registration No. 31910-2
Your Submission Dated April 3, 1992

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable with the following comment:

It was noted in your letter that this product may be used for reformulating or repackaging. These uses should also appear on the label, if applicable.

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

Sincerely yours,

Susan T. Lewis
Product Manager (21)
Fungicide-Herbicide Branch
Registration Division (H7505C)

Enclosure

H7505C:J.Fairfax:31910-2:7/27/82

CONCURRENCES

SYMBOL							
SURNAME							
DATE							

PRECAUTIONARY STATEMENTS

Hazards to Humans and
Domestic Animals.

WARNING

Causes eye and skin irritation. Do not get in eyes, on skin or on clothing. All industrial workers applying this product must wear coveralls over a long-sleeved shirt and long pants, shoes, socks, and chemical-resistant gloves. During dilution, a chemical-resistant apron and goggles or face shield must also be worn. Harmful if swallowed. Avoid contamination of food and feedstuffs.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Do not apply (or use) in estuarine oil fields 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, flue gas desulfurization thickeners, 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 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 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

Sodium Dimethyldithiocarbamate	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 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 DIVISION

National Starch and Chemical Company
909 Mueller Dr. • P.O. Box 5401 • Chattanooga, TN 37406
615-629-1405
Fax 615-698-8723 • TLX 755002

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

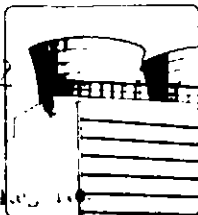
See Markings on Top of Drum for Net Weight

ACCEPTED
with COMMENT
in EPA Letter D

Cooling Towers and Air Washers

JUL 28 1992

Under the Federal
Fungicide, and Rodenticide
Act, amended, for the
registered under EPA



31910-2 DIRECTIONS 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

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

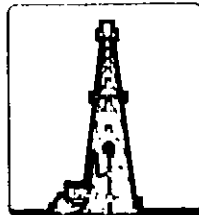
In treating air washer systems preclean by introducing a suitable detergent solution into the system and allow air washers to run with fan off for two hours. Check all nozzles and manually clean those that are plugged.

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.

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 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 commingled water or the secondary or tertiary oil recovery waterflood systems for effective micro-organism 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 0.81 to 4.3 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.

Secondary and Tertiary Oil Recovery



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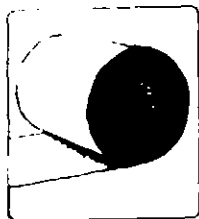
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**and Tertiary
Recovery**



Pulp & Paper



Sugar



**FLUE GAS DESULFURIZATION
(FGD) THICKENERS
(NOT APPLICABLE IN CALIFORNIA)**

AQUATREAT DNM-30 is effective in controlling anaerobic bacteria (SRB's) in flue gas desulfurization (FGD) thickeners.

AQUATREAT DNM-30 is metered directly to the thickener center well. It is fed at the rate of 50 to 500 ppm of product on a frequency of at least once per week or as required.

**HYDROCARBON FLUIDS
(NOT APPLICABLE IN CALIFORNIA)**

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 quart.) 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.

BEET SUGAR MILLS

AQUATREAT DNM-30 should be fed directly into the pulp process water 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 each 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 and rate 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 first 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 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 I

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

**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.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

WARNING

Causes eye and skin irritation. Do not get in eyes, on skin or on clothing. All industrial workers applying this product must wear coveralls over a long-sleeved shirt and long pants, shoes, socks, and chemical-resistant gloves. During dilution, a chemical-resistant apron and goggles or face shield must also be worn. Harmful if swallowed. Avoid contamination of food and feedstuffs.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Do not apply in marine and/or estuarine oil fields. 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 a NPDES permit. For guidance contact your Regional Office of the Environmental Protection Agency

ALCOTREAT MOS is a highly effective fungicide and bactericide for use in controlling the growth of fungi and bacteria found in hydrocarbon storage systems.

STORAGE AND DISPOSAL

1. PROHIBITIONS

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

2. PESTICIDE DISPOSAL

Pesticide, spray mixture, or rinse water that cannot be used according to label instructions must be disposed of according to Federal or approved state procedures under Subtitle C of the Resource Conservation and Recovery Act.

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.

ALCOTREAT MOS

ACTIVE INGREDIENTS

Sodium Dimethyldithiocarbamate 15%

Nabam (Disodium Ethylene

Bis-dithiocarbamate) 15%

INERT INGREDIENTS 70.0%

TOTAL 100.0%

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 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

Div. of National Starch and Chemical Corp.

909 Mueller Dr. • P.O. Box 5401 • Chattanooga, TN 37406

615-629-1405

FAX 615-698-8723 • TLX 755002

E.P.A. Establishment No. 31910-TN-1

E.P.A. Registration No. 31910-2

Net Contents: Liquid

See Markings on Top of Drum for Net Weight

DIRECT

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

This product must not be used on a crop or to formulate a crop or field crop.

HYDRO

ALCOTREAT MOS is a bactericide for use in fuel oil and No. 6 oil fluids in marine environments.

ALCOTREAT MOS is a fungicide (1.5 pints per 1000 gallons by weight). Subsequent to the contaminants have

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For Chem

Spill, Leak, Fire

Call CHEMT

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Seller makes no warranty concerning the use of this product. Buyer assumes responsibility for the use of this material, when in accordance with the label instructions.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

WARNING

Causes eye and skin irritation. Do not get in eyes, on skin or on clothing. All industrial workers applying this product must wear coveralls over a long-sleeved shirt and long pants, shoes, socks, and chemical-resistant gloves. During dilution, a chemical-resistant apron and goggles or face shield must also be worn. Harmful if swallowed. Avoid contamination of food and feedstuffs.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Do not apply in marine and/or estuarine oil fields. 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 a NPDES permit. For guidance contact your Regional Office of the Environmental Protection Agency.

ALCOTREAT LOS is a highly effective fungicide and bactericide for use in controlling the growth of fungi and bacteria found in hydrocarbon storage systems.

STORAGE AND DISPOSAL

1. PROHIBITIONS

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

2. PESTICIDE DISPOSAL

Pesticide, spray mixture, or rinse water that cannot be used according to label instructions must be disposed of according to Federal or approved state procedures under Subtitle C of the Resource Conservation and Recovery Act.

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.

ALCOTREAT LOS

ACTIVE INGREDIENTS

Sodium Dimethyldithiocarbamate	15%
Nabam (Disodium Ethylene Bis-dithiocarbamate)	15%

INERT INGREDIENTS	70.0%
TOTAL	100.0%

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 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.

DIRECTIONS FOR

It is a violation of Federal law to use this product in a manner inconsistent with its label. This product must not be used on crop or to formulate any product for use on field crop.

HYDROCARBON FUEL

ALCOTREAT LOS is a highly effective bactericide for use in fuel oil (No. 2 fuel oil and No. 6 oil), lubricating fluids.

ALCOTREAT LOS is applied initially at 1 pint per 1000 gallons of contaminated fuel (by weight). Subsequent dosages may be determined if the contaminants have been brought up to

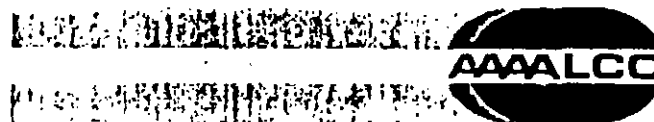
ACCEPTED
with **COMMENTS**
in EPA Letter Dated:

JUL 28 1992

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

31910-2

For Chemical Emergencies,
Spill, Leak, Fire, Exposure, or
Call CHEMTREC — Day or Night
1-800-424-9300



Manufactured by

ALCO CHEMICAL

Div. of National Starch and Chemical Corp.
909 Mueller Dr. • P.O. Box 5401 • Chattanooga, TN 37406
615-629-1405
FAX 615-698-8723 • TLX 755002

E.P.A. Establishment No. 31910-TN-1

E.P.A. Registration No. 31910-2

Net Contents: Liquid

See Markings on Top of Drum for Net Weight

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