

BEST AVAILABLE COPY

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

S 4926 / 350
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Dear Mr. Kawa:

Subject: Amended Labeling in Response to the EBDC PD-4
Aquatreat DNM-360
EPA Registration No. 31910-12
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
Susan T. Lewis
Product Manager (21)
Fungicide-Herbicide Branch
Registration Division (H7505C)

Enclosure

H7505C:J. FAIRFAX:31910-12:7/40 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 feed 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-360 is a highly effective bactericide and fungicide for use in controlling the growth of bacteria and fungi found in industrial recirculating water cooling towers, air washers, evaporative condensers, pulp and paper mills, drilling fluids, secondary and tertiary petroleum recovery, and cane and beet sugar mills.

AQUATREAT DNM-360 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-360

ACTIVE INGREDIENTS

Sodium Dimethyldithiocarbamate 18%
Nabam (Disodium Ethylene
Bis-dithiocarbamate) 18%

INERT INGREDIENTS 64%

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.**

ALCO

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 31910-12

Net Contents Liquid

See Markings on Top of Drum for Net Weight



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

Dosages for industrial recirculating water cooling towers 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-360** to the cleaned system or when growth is first noticed, according to the following schedule.

Initial Dose: Apply 10.88 ounces of product per each 1000 gallons of water in the system (100 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 1.82 to 3.63 fluid ounces of **AQUATREAT DNM-360** per 1000 gallons of water (16.7-33.3 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 washer to run with fan off for two hours. Flush. Check all nozzles and manually clean those that are plugged. Add product as specified under dosages for Cooling Towers.

Feeding

AQUATREAT DNM-360 may be fed directly from the drum or diluted with water and fed by any suitable feed system. **AQUATREAT DNM-360** should be dosed directly into the sump or basin or any other location where good distribution can be assured.

DRILLING FLUIDS

AQUATREAT DNM-360 is a highly effective microbiocide for use in controlling the 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-360 is used at the rate 0.83 to 4.17 gallons per 100 bbl. of mud. (0.017% to 0.083%). 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-360 is a highly effective microbiocide for use in controlling the growth of fungi and bacteria found in secondary and tertiary petroleum recovery waterflood systems.

AQUATREAT DNM-360 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 microorganism control. It may also be diluted with water for injection.

AQUATREAT DNM-360 is used at the rate of 1 pint per 100 bbl. of water for growth inhibition of *Bacillus Cereus* and *Desulfovibrio desulfuricans* and 0.9 to 1.5 gallons per 100 bbl. of water for heterotropic 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.

PAPER MILLS

Dosage will vary from 0.08 to 1.67 pounds (0.03 to 0.67 quarts) of **AQUATREAT DNM-360** 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-360 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-360 can be used to control slime on machines which can make paper and paperboard for use in food packaging.

BEET SUGAR MILLS

AQUATREAT DNM-360 should be fed directly into the raw juice during sugar extraction of beets to keep equipment free of bacterial slime deposits. It is to be used at the rate of 8.3-16.6 ppm of raw beets sliced, and fed continuously into the pulp press water tank with a metering pump. The maximum rate to be fed is 16.6 ppm. Refer to composite table 1 for the proper dosage in milliliters and ounces of **AQUATREAT DNM-360** to be used per minute.



CANE SUGAR MILLS

AQUATREAT DNM-360 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 first mill. Do not add this product to the maceration water.

AQUATREAT DNM-360 should be fed continuously at the rate of 8.3-16.6 parts of product per million parts of cane ground per day. 8.3 ppm. of product is the standard dosage. This may be raised up to a maximum of 16.6 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-360** 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-360** to be used per minute.

Do not exceed feed rate of 33.3 gallons (32.7 pounds) of product per 1000 short tons of cane ground per twenty-four hours.

The use of **AQUATREAT DNM-360** does not replace good housekeeping. This should include regular cleaning at least once per shift. Regular hosing of mills bagacillo conveyors, and screens with hot water and steam 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-360			
	8.3 ppm		16.6 ppm	
	ml/min	oz/min	ml/min	oz/min
1,000	4.6	0.155	9.2	0.310
2,000	9.2	0.310	18.3	0.620
3,000	13.7	0.465	27.5	0.929
4,000	18.3	0.620	36.7	1.240
5,000	22.9	0.775	45.8	1.549
6,000	27.5	0.929	55.0	1.859
7,000	32.1	1.084	64.2	2.169
8,000	36.7	1.239	73.3	2.478
9,000	41.2	1.394	82.5	2.787
10,000	45.8	1.549	91.7	3.098

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

ACCEPTED
with COMMENTS
in EPA Lett.

JUL 28 1992

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

31910-12

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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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