


PM31

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Please read instructions on reverse before completing form.

Form Approved, OMB No. 2070-0060, Approval expires 11-30-93

(A) 	United States Environmental Protection Agency Office of Pesticide Programs (H7505C) Washington, DC 20460	<input type="checkbox"/> Registration	OPP Identifier Number 154586
		<input checked="" type="checkbox"/> Amendment <input checked="" type="checkbox"/> Other	

Section I

1. Company/Product Number 31910-12	2. EPA Product Manager Walter Francis	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) AQUATREAT DNM-360	PM# 31	
5. Name and Address of Applicant (Include ZIP Code) Alco Chemical Division National Starch & Chemical Company 909 Mueller Drive P.O. Box 5401 Chattanooga, TN 37406 <input type="checkbox"/> Check if this is a new address		6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____

Section II

<input type="checkbox"/> Amendment - Explain below	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - explain below.

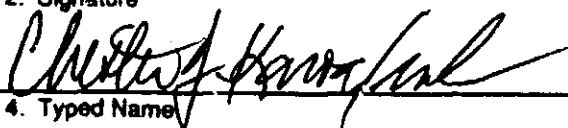
Explanation: Use additional page(s) if necessary. (For section I and Section II.)

The purpose of this Notification is to amend the Environmental Hazards statement to comply with EPA PR Notice 93-10 regarding Effluent Discharge Labeling Statements.

Section III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____		
* Certification must be submitted.	If "Yes," Unit Package wgt.	No. per container			
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) of Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed To Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled				<input type="checkbox"/> Other (_____)	

Section IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Chester J. Kawa, Jr.	Title Commercial Development Manager	Telephone No. (Include Area Code) 615/629-1405
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature 	3. Title Commercial Development Manager	
4. Typed Name Chester J. Kawa, Jr.	5. Date XXXXXX 9/25/95	

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 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 local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

AQUATREAT DNM-360 is a highly effective bactericide and fungicide for use in controlling the growth of bacteria and fungi 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 algacide 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.

AFTER

AQUATREAT® DNM-360

ACTIVE INGREDIENTS

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

INERT INGREDIENTS 64%

TOTAL 100%

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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.**

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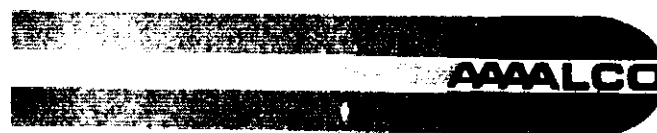
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Manufactured by:

ALCO CHEMICAL DIVISION

National Starch and Chemical Company
909 Mueller Dr. • P.O. Box 5401 • Chattanooga, TN 37406
423-629-1405
FAX 423-698-8723 • TLX 755002

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

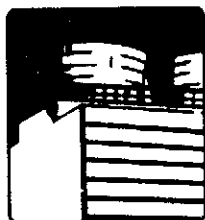
E.P.A. Registration No. 31910-12

Net Contents: Liquid

See Markings on Top of Drum for Net Weight

ER
M-360

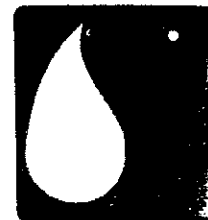
Cooling Towers and Air Washers



Drilling Fluids



Secondary and Tertiary Oil Recovery



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.

..... 18%
..... 18%
..... 64%
..... 100%

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 pre-clean 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.

BET 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.

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Weight

BEST AVAILABLE COPY

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Secondary and Tertiary Oil Recovery



Pulp & Paper



Sugar



rate 0.83 to 4.17
(0.083%). It can be
used or pre-diluted
in a mud hopper or

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and bacteria found in
recovery waterflood

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d to control slime on
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MILLS

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1. Refer to composite
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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 neces-
sary. Conditions warranting, some increase would be war-
ranted 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 main-
taining 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

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