1706-231

9/17/2010

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

SEP 17 2010

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

Ms. Juli Mann
Agent for Nalco Company
Steptoe and Johnson,LLP
1330 Connecticut Ave, NW
Washington, DC 20036

Subject: Nalco AG-451
EPA Registration Number: 1706-231
Application Date: June 22, 2010
Receipt Date: June 22, 2010

Dear Ms. Juli Mann:

The following amendment, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide (FIFRA), as amended, is acceptable with the conditions.

Proposed Amendment:

- Delete Once Through Cooling Water System Site
- Correct Typographical Error

Conditions
Revise the label as follows:

1.) The "Precautionary Statements" must precede the "Personal Protective Equipment," "User Safety Requirements," "Application Restrictions," and "Engineering Control" instructions.

3.) The "User Safety Recommendations" heading it is not in agreement with PR Notice 2000-5, Mandatory Labeling. Therefore, revise it to read "Use Safety *Requirements*."

4.) The "Paper Mills," "Metal Working Fluids," and "In Enhanced Oil-Recovery Systems" directions must be brought into compliance with PR Notice 2000-5, Mandatory label, by deleting the term, should, and stating "*must*."

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							

General Comments

A stamped label with conditions is enclosed for your records. Submit three (3) copies of your final printed label before distributing or selling the product bearing the revised labeling.

Should you have further questions concerning this letter, please contact me by telephone at (703) 308-6416 or by e-mail at Campbell-mcfarlane.jacqueline@epa.gov or Juan Negron by telephone at (703) 308-8116 or by email at negron.juan@epa.gov. When submitting information or data in response to this letter, a copy of this letter should accompany the submission to facilitate processing.

Sincerely,

Jacqueline Campbell- McFarlane
Product Manager 34
Regulatory Management Branch II
Antimicrobials Division (7510P)

Enclosure: Stamped Label

CONCURRENCES								
SYMBOL								
SURNAME								
DATE								

NALCO AG-451

INDUSTRIAL MICROBIOCIDE

ACCEPTED
with COMMENTS
in EPA Letter Dated:
SEP 17 2010

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 1706-231

ACTIVE INGREDIENT:
2,2-Dibromo-3-nitrilopropionamide.....5%
INERT INGREDIENTS.....95%
TOTAL.....100%

Weight: 9.6 lbs./gal. (1.15 kg/liter)

KEEP OUT OF REACH OF CHILDREN

DANGER

FIRST AID

- IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.
- IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice
- IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told by a poison control center or doctor. Do not give anything to an unconscious person
- IF ON SKIN: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.
Have the product container or label with you when calling a poison control center or doctor or going to treatment.
For emergency information on AG-451 call the **National Pesticides Information Center** at 1-800-858-7378, 6:30 AM to 4:30 PM Pacific time (PT), seven days a week. During other times, call the poison control center 1-800-222-1222.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear: coveralls over long-sleeved shirt and long pants, socks and chemical-resistant footwear, goggles or face shield, and chemical resistant gloves (such as barrier laminate or butyl nitrile/neoprene rubber, PVC, or viton).
Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations

Users must wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Users must remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users must remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Application Restrictions:

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

Engineering Controls:

When handlers use closed metering systems the handler requirements may be reduced or modified to long-sleeve shirt, long pants, shoes and socks.

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER. CORROSIVE: Causes irreversible eye damage. May be fatal if inhaled or swallowed. Causes skin irritation. Do not get in eyes, on skin or on clothing. Do not breathe dust. When loading or handling wear protective eyewear (goggles or face shield), long-sleeved shirt and long pants, socks, shoes, chemically resistant gloves and a NIOSH approved respirator. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing separated from other laundry before reuse.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and invertebrates. 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. Secondary biological treatment of DBNPA effluent is required for all uses except for use in secondary oil recovery systems. 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.

DIRECT

It is a violation of Federal Law to use this p

Controls bacteria, fungi, and algae in industrial recircul and seawater industrial cooling water systems; control metalworking fluids containing water, and enhanced oil **NOTE:** Add AG-451 separately to the system. Do nc of AG-451 due to the high pH of many additive formula

IN RECIRCULAT

AG-451 aids in the control of bacterial, fungal, and alg cooling towers, industrial water scrubbing systems, an 451 at a point of uniform mixing. Addition may be c contamination when treatment is begun. When a meter handling. Refer to **precautionary statements.**
Badly fouled systems must be cleaned before treatment

FOR THE CON

INTERMITTENT (SLUG) METHOD – INITIAL I fluid ounces of AG-451 per 1000 gallon of water in the **SUBSEQUENT DOSE:** When control is evident, add the system (11 – 44 ppm) every four days or as needed t
CONTINUOUS FEED METHOD – INITIAL DOSE of AG-451 per 1000 gallon of water in the system (22-4
SUBSEQUENT DOSE: Maintain this level by pumpi 1000 gallon of water (4 – 22 ppm) lost from the system

FOR CONTROL (

INTERMITTENT OR SLUG METHOD – INITIAI fluid ounces of AG-451 per 1000 gallon of water in the **SUBSEQUENT DOSE**: When microbial control is evi water in the system (135-438 ppm) daily, or as needed t
CONTINUOUS FEED METHOD – INITIAL DOS ounces of AG-451 per 1000 gallon of water in the syste
SUBSEQUENT DOSE: Maintain treatment level by p per 1000 gallon of water in the system (135-438 pp treatment is begun.

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For control of bacterial, fungal, and yeast growths in pu – 19.2 fluid ounces per ton of pulp or paper (dry basis). the type of system and the severity of the contaminatio will ensure uniform distribution of AG-451 in the m discharge, broke chest, furnish chests, save-alls, and wh **Heavily fouled systems** ~~should~~ be boiled out, then tre (dry basis), as necessary for control. **Moderately fou** fluid ounces of AG-451 per ton of paper (dry basis) un then be reduced to 7.7 – 19.2 fluid ounces of AG-451 pe for control. Dislodged slime may cause breaks in the p **Slightly fouled systems** ~~should~~ be treated continuously basis) until the slime is controlled, then added on an inte

IN AIR WA

Add 1 –32 fluid ounces of AG-451 per 1000 gallons of the contamination to control slime-forming bacteria and only in industrial air washer systems that maintain effec be cleaned before treatment is begun.
INTERMITTENT (SLUG) METHOD – INITIAL D ounces of AG-451 per 1000 gallon of water in the syste
SUBSEQUENT DOSE: When microbial control is ev water in the system (9-142 ppm) every 2 days or as nee
CONTINUOUS FEED METHOD – INITIAL DOS ounces of AG-451 per 1000 gallon of water in the syste
SUBSEQUENT DOSE: Maintain treatment level by p per 1000 gallon of water in the system (9-142 ppm) per

IN METALWORKING FI

This product is effective in metalworking fluid concentr 1:4. For controlling (or inhibiting) the growth of bacteri that contain water, add AG-451 to the fluid collection ta
INITIAL OR SLUG DOSE: When the system is notic metalworking fluid to the system. Repeat until control i is evident, add 0.4 – 0.8 gallons of AG-451 per 1000 gal control. Additions can be made continuously or intermi

FOR CONTR

INTERMITTENT METHOD – INITIAL DOSE: Minimum treatment intervals should be 15 minutes. Re microbial control is evident, add 12-48 ppm AG-451 int

Revised: 6/22/10

DOT: NOT REGULATED DURING TRANSPORTATION, PER 49CFR 173.154(D), IF TRANSPORTED IN PACKAGE COMI
ICAO & IMDG: UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (DBNPA: 2,2-Dibromo-3-Nitrilopropionamide)

ACCEPTED
with COMMENTS
n EPA Letter Dated:

SEP 17 2010

r the Federal Insecticide,
cide, and Rodenticide Act as
ded, for the pesticide,
ered under EPA Reg. No. 1706-231

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15-20 minutes. Remove
. Call a poison control

l or an ambulance, then
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treatment advice. Have
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s product into lakes, streams,
National Pollutant Discharge
n writing prior to discharge.
se in secondary oil recovery
reviously notifying the local
nal Office of the EPA.

DIRECTION FOR USE

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

Controls bacteria, fungi, and algae in industrial recirculating water cooling tower systems, and in once-through fresh and seawater industrial cooling water systems; controls slime-forming bacteria and fungi, and yeasts in paper mills, metalworking fluids containing water, and enhanced oil recovery systems.

NOTE: Add AG-451 separately to the system. Do not mix it with other additives, in order to avoid decomposition of AG-451 due to the high pH of many additive formulations.

IN RECIRCULATING WATER SYSTEMS

AG-451 aids in the control of bacterial, fungal, and algal slimes in evaporative condensers, commercial and industrial cooling towers, industrial water scrubbing systems, and brewery pasteurizers. For optimum performance, add AG-451 at a point of uniform mixing. Addition may be continuous or intermittent (slug) depending on the severity of contamination when treatment is begun. When a metering pump is not used for addition, care should be exercised in handling. Refer to **precautionary statements.**

Badly fouled systems must be cleaned before treatment is begun.

FOR THE CONTROL OF BACTERIA

INTERMITTENT (SLUG) METHOD – INITIAL DOSE: When the system is noticeably fouled, add 2.4 – 4.9 fluid ounces of AG-451 per 1000 gallon of water in the system (22-44 ppm). Repeat until control is achieved.

SUBSEQUENT DOSE: When control is evident, add 1.2 – 4.8 fluid ounces of AG-451 per 1000 gallons of water in the system (11 – 44 ppm) every four days or as needed to maintain control.

CONTINUOUS FEED METHOD – INITIAL DOSE: When the system is noticeably fouled, 2.4 – 4.9 fluid ounces of AG-451 per 1000 gallon of water in the system (22-44 ppm).

SUBSEQUENT DOSE: *Maintain this level by pumping a continuous feed of 0.5 – 2.4 fluid ounces of AG-451 per* 1000 gallon of water (4 – 22 ppm) lost from the system by bleedoff.

FOR CONTROL OF FUNGI AND ALGAE

INTERMITTENT OR SLUG METHOD – INITIAL DOSE: When the system is noticeably fouled, add 25 – 49 fluid ounces of AG-451 per 1000 gallon of water in the system (221-438 ppm). Repeat until control is achieved.

SUBSEQUENT DOSE: When microbial control is evident, add 15 - 49 fluid ounces of AG-451 per 1000 gallon of water in the system (135-438 ppm) daily, or as needed to maintain control.

CONTINUOUS FEED METHOD – INITIAL DOSE: When the system is noticeably fouled add 25 – 49 fluid ounces of AG-451 per 1000 gallon of water in the system (221-438 ppm).

SUBSEQUENT DOSE: Maintain treatment level by pumping a continuous feed of 15 – 49 fluid ounces of AG-451 per 1000 gallon of water in the system (135-438 ppm) per day. Badly fouled systems must be cleaned before treatment is begun.

IN PAPER MILLS

For control of bacterial, fungal, and yeast growths in pulp, paper and paperboard mills, add AG-451 at the rate of 7.7 – 19.2 fluid ounces per ton of pulp or paper (dry basis). Addition may be continuous or intermittent, depending upon the type of system and the severity of the contamination. It should be made with a metering pump at a location that will ensure uniform distribution of AG-451 in the mass of fiber and water, such as the beaters, jordan inlet or discharge, broke chest, furnish chests, save-alls, and white-water tanks.

Heavily fouled systems should be boiled out, then treated with 7.7 – 19.2 fluid ounces of AG-451 per ton of paper (dry basis), as necessary for control. **Moderately fouled systems** should be treated continuously with 19.2 – 25.9 fluid ounces of AG-451 per ton of paper (dry basis) until the slime accumulation is controlled. Additional rates can then be reduced to 7.7 – 19.2 fluid ounces of AG-451 per ton of paper on a continuous or intermittent basis, as needed for control. Dislodged slime may cause breaks in the paper and a clean up of the paper machine may be advisable. **Slightly fouled systems** should be treated continuously with 7.7 – 19.2 fluid ounces of AG-451 per ton of paper (dry basis) until the slime is controlled, then added on an intermittent basis to maintain control.

IN AIR WASHER SYSTEMS

Add 1 –32 fluid ounces of AG-451 per 1000 gallons of water in the system (9-285 ppm), depending on the severity of the contamination to control slime-forming bacteria and fungi in the industrial air washing system. NOTE: For use only in industrial air washer systems that maintain effective mist eliminating components. Badly fouled systems must be cleaned before treatment is begun.

INTERMITTENT (SLUG) METHOD – INITIAL DOSE: When the system is noticeably fouled, add 20 – 32 fluid ounces of AG-451 per 1000 gallon of water in the system (176-285 ppm). Repeat until control is achieved.

SUBSEQUENT DOSE: When microbial control is evident, add 1 – 16 fluid ounces of AG-451 per 1000 gallon of water in the system (9-142 ppm) every 2 days or as needed to maintain control.

CONTINUOUS FEED METHOD – INITIAL DOSE: When the system is noticeably fouled add 20 – 32 fluid ounces of AG-451 per 1000 gallon of water in the system (178-285 ppm).

SUBSEQUENT DOSE: Maintain treatment level by pumping a continuous feed of 1 – 16 fluid ounces of AG-451 per 1000 gallon of water in the system (9-142 ppm) per day.

IN METALWORKING FLUIDS CONTAINING WATER

This product is effective in metalworking fluid concentrates which have been diluted with water at ratios of 1: 100 – 1:4. For controlling (or inhibiting) the growth of bacteria, fungi, and yeasts that may deteriorate metalworking fluids that contain water, add AG-451 to the fluid collection tank. Additions should be made with a metering pump.

INITIAL OR SLUG DOSE: When the system is noticeably fouled, add 1.0 gallon of AG-451 per 1000 gallons of metalworking fluid to the system. Repeat until control is achieved. **SUBSEQUENT DOSE:** When microbial control is evident, add 0.4 – 0.8 gallons of AG-451 per 1000 gallons of metalworking fluid per day, or as needed to maintain control. Additions can be made continuously or intermittently. Slug the system as required.

FOR CONTROL OF BACTERIA

INTERMITTENT METHOD – INITIAL DOSE: When system is noticeably fouled, add 24-48 ppm AG-451. Minimum treatment intervals should be 15 minutes. Repeat until control is achieved. **SUBSEQUENT DOSE**: When microbial control is evident, add 12-48 ppm AG-451 intermittently as needed to maintain control.

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NET CONTENTS SH

EPA REG. NO. 1706-

TRANSPORTATION, PER 49CFR 173.154(D), IF TRANSPORTED IN PACKAGE COMPATIBLE WITH THIS MATERIAL
IVE LIQUID, ACIDIC, ORGANIC, N.O.S. (DBNPA: 2,2-Dibromo-3-Nitrilopropionamide), 8, PG III

[Batch/Lot Number: _

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OR USE
in a manner inconsistent with its labeling.

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VATER SYSTEMS
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SYSTEMS
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CONTAINING WATER
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Slug the system as required.

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CONTINUOUS FEED METHOD – INTIAL DOSE: When the system is noticeably fouled, add 24-48 ppm AG-
continuously to the system. **SUBSEQUENT DOSE**: W nicrobial control is evident, pump a continuous feed
-24 ppm AG-451 continuously to the system. Badly foule stems must be cleaned before treatment is begun.

FOR CONTROL OF FUNGI AND ALGAE

INTERMITTENT METHOD – INITIAL DOSE: When the system is noticeably fouled add 240-472 ppm AG-451 to the system. The minimum treatment interval should be 15 minutes. Repeat until control is achieved.
SUBSEQUENT DOSE: When microbial control is evident, add 144-472 ppm AG-451 to the system daily, or as needed to maintain control. The minimum treatment interval should be 15 minutes. Badly fouled systems must be cleaned before treatment is begun.
CONTINUOUS FEED METHOD – INITIAL DOSE: When the system is noticeably fouled add 240-472 ppm AG-451 to the system. **SUBSEQUENT DOSE**: When microbial control is evident, pump a continuous feed of 144-472 ppm AG-451 to the system. Badly fouled systems must be cleaned before treatment is begun.

IN ENHANCED OIL-RECOVERY SYSTEMS

For controlling slime-forming bacteria, yeasts and fungi in oil field water, polymer or mycellar floods, water disposal systems, or other oil field water systems, add 0.4 – 25 gallons of AG-451 per 2400 barrels of water, depending on the severity of contamination. Additions should be made with a metering pump either continuously or intermittently.
CONTINUOUS FEED METHOD: When the system is noticeably fouled, add 3.2 – 25 gallons of AG-451 per 2400 barrels of water continuously until the desired degree of control is achieved. Subsequently treat with 0.4 – 4.8 gallons of AG-451 per 2400 barrels of water continuously or as needed to maintain control.
INTERMITTENT (SLUG) METHOD: When the system is noticeably fouled, or to maintain control of the system, add 3.2 – 25 gallons of AG-451 per 2400 barrels of water intermittently for 4-8 hours per day or as needed depending on the severity of contamination. Addition of AG-451 may be made at the free water knockouts, before or after the injection pumps and injection well headers. **NOTE:** For control of bacteria, yeast and fungi in aqueous solutions of biopolymer used in flooding operations, add 4.8 – 25 gallons of AG-451 per 2400 barrels of water. Additions of AG-451 should be made with a metering pump immediately after the preparation of the aqueous biopolymer solution to prevent loss of viscosity.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.
PESTICIDE STORAGE: To maintain product quality, store at temperatures below 60° C. Keep container tightly closed when not in use.
PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. 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.
(Instructions for refillable containers:)
CONTAINER HANDLING: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling, if available, or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedure approved by state and local authorities.
(Instructions for non-refillable containers greater than 5 gallons:)
CONTAINER HANDLING: Non-refillable container. Do not reuse or refill this container. Triple rinse (or equivalent) container promptly after emptying. Triple rinse as follows: Empty remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling, if available, or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedure approved by state and local authorities.
(Instructions for non-refillable containers 5 gallons or less:)
CONTAINER HANDLING: Non-refillable container. Do not reuse or refill this container. Triple rinse (or equivalent) container promptly after emptying. Triple rinse as follows: Empty remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling, if available, or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedure approved by state and local authorities.

NET CONTENTS SHOWN ELSEWHERE ON CONTAINER.

EPA REG. NO. 1706-231 EPA EST. NO. 1706-PA-1

Letters in ( ) that match the prefix in batch number identify the establishment number

Nalco Company
1601 West Diehl Road
Naperville, IL 60563-1198
Emergency Phone No.: (800) 424-9300

[Batch/Lot Number: _____] *Note to EPA Reviewer: Batch/Lot number may or may not appear on the label.*