UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

February 22, 2017

Rachel Majerczak
Regulatory Specialist, Commercial Biocides
Nalco Company, LLC
1601 West Diehl Road
Naperville, IL 60563

Subject: Notification per PRN 98-10 –Adding the patent statement to
The master label.
Product Name: AG-451
EPA Registration Number: 1706-231
Application Date: January 20, 2017
Decision Number: 525732

Dear Ms. Majerczak,

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Antimicrobials Division (AD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The label submitted with the application has been stamped "Notification" and will be placed in our records.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

If you have any questions, you may contact Lorena Rivas at 703-305-5027 or via email at rivas.lorena@epa.gov.

Sincerely,

Registration Risk Manager
Regulatory Management Branch II
Antimicrobials Division (7510P)
Office of Pesticide Programs

Enclosure: Notification Label

NALCO

AG-451

INDUSTRIAL MICROBIOCIDE

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.

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.

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 Requirements

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.

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; 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 must 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 must 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** must 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** must 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 must 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.

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 must 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 must 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 60^0 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. Offer for recycling, if available. Triple rinse (or equivalent) container promptly after emptying. Triple rinse as follows: Empty the 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 and forth, 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

[This product may be patented | Ce produit peut être breveté | Este producto puede ser patentado: www.ecolab.com/patents]

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

NOTIFICATION
1706-231
The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:
02/22/2017

DOT: NOT REGULATED DURING TRANSPORTATION, PER 49CFR 173.154(D), IF TRANSPORTED IN PACKAGE COMPATIBLE WITH THIS MATERIAL
ICAO & IMDG: UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (DBNPA: 2,2-Dibromo-3-Nitrilopropionamide), 8, PG III

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