EPA Jacket 1706-240

Vol.4

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

March 15, 2018

Linda Fane
Regulatory Affairs Senior Manager
Nalco Company LLC
1601 West Diehl Road
Naperville, IL 60563

Subject: Label Amendment – Minor direction for use modifications and additional graphics
Product Name: Nalco 60620
EPA Registration Number: 1706-240
Application Date: December 12, 2017
Decision Number: 536927

Dear Ms. Fane:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

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.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance

with FIFRA section 6. If you have any questions, please contact Tara Flint via email at flint.tara@epa.gov or Eric Miederhoff at Miederhoff.eric@epa.gov.

Sincerely,

E. Miederhoff

Eric Miederhoff
Product Manager 31
Regulatory Management Branch I
Antimicrobials Division (7510P)
Office of Pesticide Programs

Enclosure

PRECAUTIONARY STATEMENTS: HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed or absorbed through the skin. May cause irritation to the eyes and skin. Do not get in eyes, on skin, or on clothing. Use with adequate ventilation. Wear protective eyewear (goggles, face shield or safety glasses), protective clothing and protective gloves (rubber, chemical resistant) when handling. Remove contaminated clothing and wash clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic organisms. 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.

PHYSICAL AND CHEMICAL HAZARDS

Direct mixing of this product with sodium hypochlorite solutions and other strong oxidizing and alkali chemicals will release hazardous gases. Only mix with other chemicals or materials solutions following the Directions for Use of this product.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Keep container tightly closed. Store in a dry place. Leaking or damaged containers should be placed in an overpack container for disposal. Spills should be contained and cleaned using an absorbent material and disposed of in a sanitary landfill.

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.

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.

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 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.

ACCEPTED
03/15/2018
Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 1706-240

Revised 12/12/2017
EPA Reg. # 1706-240

NALCO Water
An Ecolab Company

NALCO® 60620

A MICROORGANISM CONTROL CHEMICAL

ACTIVE INGREDIENT:
Ammonium Sulfate.....20.0%
INERT INGREDIENTS:.....80.0%
TOTAL:.....100.0%

EPA Reg. No. 1706-240

EPA Est. No. 1706-AL-1 (MG)	EPA Est. No. 1706-PA-1 (EL)
EPA Est. No. 1706-CA-1 (CR)	EPA Est. No. 1706-WA-1 (VW)
EPA Est. No. 1706-IL-1 (BP)	EPA Est. No. 1706-LA-2 (PL)

Letter in () that matches first letter in batch number identifies the establishment number.

KEEP OUT OF REACH OF CHILDREN
CAUTION

FIRST AID

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 a doctor for treatment advice.

IF IN EYES: Hold eyes 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 a doctor for treatment advice.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or a doctor for treatment advice.

NOTE: Have the product container or label with you when calling a poison control center or a doctor, or going for treatment.

SEE LEFT SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

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

Nalco Company, LLC
1601 West Diehl Road
Naperville, IL 60563-1198
EMERGENCY PHONE NO. (800) 424-9300

NET CONTENTS SHOWN ELSEWHERE ON CONTAINER

PRODUCT IS NOT REGULATED UNDER DOT REGULATIONS DURING TRANSPORTATION

DIRECTIONS FOR USE

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

For the control of bacteria, algae and fungi. Nalco 60620 must be used in conjunction with: 1) an EPA registered sodium hypochlorite product (12.5%) to produce monochloramine; and 2) the OxiPRO delivery system at a pH of ≥8.5 as described below. The OxiPRO delivery system can be configured for a primary or secondary dilution strategy. Your Nalco technical representative will determine which OxiPRO delivery system configuration is appropriate for treatment of your system.

Nalco 60620 and the sodium hypochlorite are mixed in a specially designed OxiPRO system that produces the monochloramine solution on site. The products are blended to achieve a molar ratio of 0.5-1.2 ammonium sulfate to 1.0 sodium hypochlorite (12.5%). The monochloramine is typically achieved by mixing 0.8 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). The OxiPRO delivery system controller ensures the automatic production of the dilute monochloramine solution, controls the optimization of the production process, and ensures adequate dosing into the water system requiring treatment. The design, treatment, installation calibration, and operation of the feeding system in all plants is to be conducted onl by authorized and trained personnel.

Use of this product for any other purpose or contrary to the instructions below, or without the supervision of authorized trained personnel is prohibited.

Note: Do not use other feeding modes to mix Nalco 60620 and the sodium hypochlorite. Non-authorized personnel are prohibited from operating or otherwise handling the feeding system or its chemical ingredients.

PULP AND PAPERMILL WATER SYSTEMS AND PRODUCTION OF FIBERGLASS

Dosage Rates: When the system is noticeably fouled, apply sufficient Nalco 60620 and sodium hypochlorite to achieve a chlorine residual in excess of the system oxidant demand. The monochloramine solution produced by the delivery system is immediately added to the influent water system and/or the process waters for which treatment is required. The monochloramine solution may be added to any point of uniform mixing. Addition may be continuous or intermittent depending on the severity of the contamination when treatment starts, and on other system operation parameters.

A. SLUG FEED METHOD

Initial Dose: When the system is noticeably fouled, add the appropriate amount of monochloramine to the system to obtain from 1 to 10 ppm total available chlorine. The monochloramine dosage is typically achieved by mixing 0.8 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Repeat until control is achieved. Badly fouled systems must be cleaned before treatment is begun.

Subsequent Dose: When microbial control is evident, add the appropriate amount of monochloramine to the system daily, or as needed to maintain control and keep the total chlorine residual at 1 to 10 ppm.

B. INTERMITTENT FEED METHOD

Initial Dose: When the system is noticeably fouled, add the appropriate amount of monochloramine to the system to obtain from 1 to 10 ppm total available chlorine. The monochloramine dosage is typically achieved by mixing 0.8 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Badly fouled systems must be cleaned before treatment is begun.

Subsequent Dose: When microbial control is evident, add the appropriate amount of monochloramine to the system to obtain a 1 – 10 ppm total chlorine residual.

C. CONTINUOUS FEED METHOD

Initial Dose: When the system is noticeably fouled, add the appropriate amount of monochloramine to the system to obtain 1 to 10 ppm total available chlorine. The monochloramine dosage is typically achieved by mixing 0.8 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Badly fouled systems must be cleaned before treatment is begun.

Subsequent Dosage: Maintain this treatment level by starting a continuous feed of monochloramine to maintain a 1 to 10 ppm total chlorine residual.
Note to reviewer: Text in brackets [ ] is considered optional text. The optional statement "Not Approved for California" may be added to other use sites as required by CDPR.

INDUSTRIAL WATER SYSTEMS:
Nalco 60620 is used for the control of algal, bacterial and fungal deposits in industrial cooling towers, recirculating cooling water systems, evaporative condensers, influent water systems, industrial fresh water systems, source water for potable water treatment facilities, airwashers, papermill starch slurries, seawater desalination and reverse osmosis systems [(Not Approved for California)], paint spray booth sumps, ponds used for cooling purposes, sewage and wastewater systems [(Not Approved for California)]. This product is also used for the control of algae, bacteria, fungi and [mollusks – NOT APPROVED FOR CALIFORNIA] in both seawater and freshwater influent systems.

When this product is used to treat sewage and wastewater systems, seawater, and freshwater influent systems for once-through industrial water systems [(Not Approved for California)], and seawater desalination and reverse osmosis systems, and the system water is not sent to a POTW; residual levels of monochloramine in the effluent must be monitored and neutralized using on-line monitoring and control equipment.

When this product is used to treat recirculating cooling water systems, evaporative condensers, influent water systems (not part of once-through industrial water systems), airwashers, paint spray booth sumps,–ponds used for cooling purposes; effluent detection of monochloramine should be conducted at least once per shift. If monochloramine is detected in the effluent, it can be neutralized by the addition of sodium metabisulfite until the monochloramine is no longer detected.

Dosage Rates: When noticeably fouled, apply sufficient product and sodium hypochlorite to achieve a total chlorine residual of at least 1 ppm in excess of the system oxidant demand. Once control is achieved, treatment rates can be reduced to sub-demand rates from 50% to 80% of system demand. The product may be added to the system continuously or intermittently as needed to any area of the system where uniform mixing can be obtained.

For intermittent treatment: The monochloramine dosage is typically achieved by mixing 0.8 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Apply the solution at a rate to obtain 1 to 2 ppm in excess of the system oxidant demand (maximum of 5 ppm measured) as total chlorine in the water being treated for 5 to 60 minutes every 1 to 6 hours. The frequency of feeding and the duration of treatment will depend on the severity of the problem. Badly fouled systems must be cleaned before initial treatment.

For continuous treatment: The monochloramine dosage is typically achieved by mixing 0.8 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Apply the solution at a rate to obtain 0.5 to 1 ppm in excess of the system oxidant demand (maximum of 5 ppm measured) as total chlorine in the water being treated on a continuous basis. The frequency of feeding and the duration of treatment will depend on the severity of the problem. Badly fouled systems must be cleaned before initial treatment.

[The following are optional marketing text]

cRc KOSHER 1005

OxiPRO MICROBIAL CONTROL TECHNOLOGY

[NSF Certified to ANSI/NSF 60]
[Insert MUL]
[Insert Chemical Name]
[Insert NSF language]

[FirstCLEAR™]

Flint, Tara

From: Fane, Linda <lfane@ecolab.com>
Sent: Wednesday, March 14, 2018 5:29 PM
To: Flint, Tara
Cc: Miederhoff, Eric; Emerson, Shannon; Fane, Linda
Subject: RE: 1706-240 Label comments
Attachments: 60620_1706-240_Master Label_20171212_EPA Requested Changes_V2_Clean.pdf; 60620_1706-240_Master Label_20171212_EPA Requested Changes_V2.pdf

Hi Tara,
We're going to move forward with the label amendment to add "papermill starch slurries" to the label and will remove the "including vegetative aerobic spore forming" language.

Attached please find a highlighted and clean copy of the revised label. Note that I changed the order of the organisms back to the original "bacteria, algae and fungi" so that it is in line with the current EPA stamped label. Please let me know if you need anything else.

Nalco plans to regroup and decide on a strategy for the "vegetative aerobic spore forming bacteria" language and will reach out to EPA for guidance on acceptability of our proposed path forward. Could you comment on who at EPA we should coordinate with on this?

Thank you for all of your assistance with this!
Linda

Linda Fane
Senior Manager, Regulatory Affairs
NALCO Water | An Ecolab Company 1601 W. DIEHL ROAD, NAPERVILLE, IL 60563
T 630 305 1455 **F** 630 305 2985 **E** lfane@ecolab.com

From: Flint, Tara [mailto:flint.tara@epa.gov]
Sent: Wednesday, March 14, 2018 7:00 AM
To: Fane, Linda <lfane@ecolab.com>
Cc: Miederhoff, Eric <Miederhoff.Eric@epa.gov>
Subject: RE: 1706-240 Label comments

Good morning Linda!

Correct to both of your questions posed below. The amendment could proceed with the papermill starch slurries if you choose to do so. And if you want the spore forming phrasing on the label—some type of data would be required. (Please note that some type of protocol would be likely need to be developed for efficacy testing of this manner since products we have registered related to these types of organism claims are for hard surface use.)

Let me know if that all makes sense.

From: Fane, Linda [mailto:lfane@ecolab.com]
Sent: Tuesday, March 13, 2018 3:59 PM
To: Flint, Tara <flint.tara@epa.gov>

Cc: Miederhoff, Eric <Miederhoff.Eric@epa.gov>; Fane, Linda <lfane@ecolab.com>
Subject: RE: 1706-240 Label comments

Thanks for the additional information Tara! I have a meeting scheduled with the product team to discuss this further.

So, as I understand where we are now – if we remove the new language "vegetative aerobic spore forming" and make no changes to that section of the label, then we can still proceed with this amendment for the addition of the "papermill starch slurries" – correct?

Also, if we wanted to add "vegetative aerobic spore forming bacteria" to the label, am I correct in understanding that, per the efficacy review team, that would be a public health claim and we would need to generate GLP data to show efficacy to c difficile? Is this correct?

Thanks again for your help!
Linda

Linda Fane
Senior Manager Regulatory Affairs
NALCO Water | An Ecolab Company 1601 W. DIEHL ROAD, NAPERVILLE, IL 60563
T 630 305 1455 **F** 630 305 2985 **E** lfane@ecolab.com

From: Flint, Tara [mailto:flint.tara@epa.gov]
Sent: Tuesday, March 13, 2018 12:21 PM
To: Fane, Linda <lfane@ecolab.com>
Cc: Miederhoff, Eric <Miederhoff.Eric@epa.gov>
Subject: RE: 1706-240 Label comments

Hi Linda

Eric and I asked efficacy for a bit further of an explanation on this situation as initially we had thought it could maybe just be qualified.

The overarching issue (that may give a bit more context) is that here in AD we are in general a bit hesitant any time language comes up related to "spores" due to its possible implications/ties to C. diff. We do not want any product out there that could mislead potential users as to any public health claims, whether or not expressly written out on the label. With that being said, the efficacy team feels that even if "spore forming" is removed from the label as you have it now—the remaining phrasing "vegetative aerobic bacteria" is in effect saying that same thing in different words—tying the use to spores.

Due to all of this, efficacy has kept a pretty hard stance on what is or isn't acceptable when anything related to spores is mentioned on labels. They have asked that all the phrasing related to this that was added to the label be removed—which would ultimately leave us with just the addition of the starch slurries for the label amendment.

At this point, Eric and I are wondering Ecolab's stance on adding this language to the label. The label for this product is obviously pretty limited in its uses and use sites, none of which are public health claim related. We are wondering the company's stance on this proposed language given the hesitancy surrounding the insertion of spores on Antimicrobial products.

I know this isn't quite the answer you were hoping for. I have CC'ed Eric here if you have any further questions or would like to discuss it a bit more with us.

Thanks and have a great afternoon!

Tara Flint
Environmental Protection Specialist
RMB1 | Antimicrobials Division
OPP | Environmental Protection Agency
(703) 347-0398

From: Fane, Linda [mailto:lfane@ecolab.com]
Sent: Monday, March 12, 2018 4:02 PM
To: Flint, Tara <flint.tara@epa.gov>
Cc: Fane, Linda <lfane@ecolab.com>
Subject: RE: 1706-240 Label comments

Hi Tara,
I scheduled a meeting with our RD&E and business folks to discuss the feedback from EPA/Efficacy. We're scheduled to talk on Wednesday.

One quick question – is the request from efficacy to make the changes outlined in #1 and #2 .... Or is it #1 or #2? I'm not sure why we'd need to add "non-public health" to the claim language if we remove "spore forming".

For example – would it be acceptable to have either of these "vegetative aerobic bacteria" or "non-public health, vegetative aerobic spore forming bacteria"?

Thanks in advance for the clarification!
Linda

Linda Fane
Senior Manager, Regulatory Affairs
NALCO Water | An Ecolab Company 1601 W. DIEHL ROAD, NAPERVILLE, IL 60563
T 630 305 1455 **F** 630 305 2985 **E** lfane@ecolab.com

From: Flint, Tara [mailto:flint.tara@epa.gov]
Sent: Monday, March 12, 2018 8:21 AM
To: Fane, Linda <lfane@ecolab.com>
Subject: 1706-240 Label comments

Hi Linda

Eric had me follow up with efficacy that the addition of "vegetative aerobic spore forming bacteria" was going to be acceptable. They said generally because these industrial uses are not making public health claims but rather just control claims, it is more or less okay. However, they had two small requests: 1)"spore forming" be removed as it is generally restricted for use on sterilants; 2) the addition of some sort of qualifier to clearly denote it as non-public health such as "non-public health", "slime-forming", or "odor-causing".

Let me know what you think of these and feel free to contact me with any questions.

Thank yoU!

Tara Flint
Environmental Protection Specialist
RMB1 | Antimicrobials Division
OPP | Environmental Protection Agency
(703) 347-0398

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Flint, Tara

From: Fane, Linda <lfane@ecolab.com>
Sent: Wednesday, March 7, 2018 3:39 PM
To: Flint, Tara
Cc: Fane, Linda; Emerson, Shannon
Subject: RE: "Starch slurries" clarification

Hi Tara,
Hope you're having a great day!

A brief description of starch slurries is:
Starch slurries are a mixture of industrial starch and paper mill influent water used in the paper making process. The starch is sent to the papermaking process where it is used to achieve technical effects in paper and paperboard such as strength.

If it would be helpful, we can add the term "papermill" in front of the "starch slurries" on the label so it's clear that we're referring to papermill starch slurries.

Please let me know if EPA would want this change to the label and I'll send it to you.

If you have any other questions, please let me know.

Thanks!
Linda

Linda Fane
Senior Manager, Regulatory Affairs
NALCO Water | An Ecolab Company 1601 W. DIEHL ROAD, NAPERVILLE, IL 60563
T 630 305 1455 **F** 630 305 2985 **E** lfane@ecolab.com

From: Flint, Tara [mailto:flint.tara@epa.gov]
Sent: Monday, February 26, 2018 10:01 AM
To: Fane, Linda <lfane@ecolab.com>
Subject: "Starch slurries" clarification

Good morning Linda!

I am going over the small changes to the label for 1706-240 for the current label amendment we have submitted from you. Could you give me some additional information as to what "starch slurries" entails? Upon googling...it could be several different things all related to water systems. We are trying to decipher if it has any possibility of being considered a new use or not.

Thank you!

Tara Flint
Environmental Protection Specialist

RMB1 | Antimicrobials Division
OPP | Environmental Protection Agency
(703) 347-0398

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

December 26, 2017

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

MS. TAMERA MCKEEHAN
ECOLAB, INC.
NALCO COMPANY, LLC
A SUBSIDIARY OF ECOLAB, INC.
370 WABASHA STREET NORTH
ST. PAUL, MN 55102-1390

PRODUCT NAME: NALCO 60620
COMPANY NAME: NALCO COMPANY, LLC
OPP IDENTIFICATION NUMBER:
EPA FILE SYMBOL: 1706-240
EPA RECEIPT DATE: 12/20/17

SUBJECT: RECEIPT OF AMENDMENT

DEAR REGISTRANT:

The Office of Pesticide Programs has received your application for an amendment and it has passed an administrative screen for completeness.

During the initial screen we determined that the application appears to qualify for fast track review. The package will now be forwarded to the Product Manager for review to determine its acceptability for fast track status.

If you have any questions, please contact Antimicrobials Division, Risk Management Team 31, at (703) 347-8028.

Sincerely,

Front End Processing Staff
Information Services Branch
Information Technology & Resources Management Division

NALCO Water
An Ecolab Company

Linda Fane
Senior Manager
1601 W. DIEHL ROAD
NAPERVILLE, IL 60563-1198
lfane@ecolab.com
630 305 1455

December 12, 2017

Office of Pesticide Programs
US Environmental Protection Agency
One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202

Attention: Eric Miederhoff, Product Manager 31
Antimicrobials Division

Subject: **Label Amendment**
Product: **Nalco 60620 (EPA Reg. No. 1706-240)**

Dear Mr. Miederhoff:

Nalco Company is submitting a label amendment for **Nalco 60620 (EPA Reg. No. 1706-240)** with the following changes:

1. Addition of an efficacy claim against vegetative aerobic spore forming bacteria in pulp and papermill water systems (non-public health)
2. Addition of "starch slurries" under Industrial Water Systems
3. Addition of the FirstCLEAR trademark as optional marketing text

Enclosed please find the following:

1. Application Form (EPA Form 8570-1)
2. Proposed label with the changes highlighted in yellow
3. Proposed label with no highlights

If you have any questions, please contact me at 630-305-1455.

Regards,

Linda J Fane
Senior Manager/Regulatory Affairs

Please read instructions on reverse before cc ·eting form. Form Approv OMB No. 2070-0060, Approval expires 2-28-95

EPA	United States **Environmental Protection Agency** Washington, DC 20460	☐ **Registration** ☒ **Amendment** ☐ **Other**	OPP Identifier Number

Application for Pesticide – Section I

1. Company/Product Number **1706-240**	2. EPA Product Manager **Eric Miederhoff**	3. Proposed Classification ☒ None ☐ Restricted
4. Company/Product (Name) **Nalco 60620**	PM# **31**	
5. Name and Address of Applicant *(Include ZIP Code)* Nalco Company LLC 1601 West Diehl Road Naperville, IL 60563 ☐ *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. Nos. Product Names	

Section - II

☒ Amendment – Explain below.
☐ Resubmission in response to Agency letter dated _____
☐ Notification – Explain Below.
☐ Final printed labels in response to Agency letter dated:
☐ "Me Too" Application
☐ Other – Explain Below.

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

Nalco Company is submitting a label amendment with the following changes:
1) Addition of an efficacy claim against vegetative aerobic spore forming bacteria in pulp and papermill water systems (non-public health)
2) Addition of "starch slurries" under Industrial Water Systems
3) Addition of the FirstCLEAR trademark as optional marketing text

Section - III

1. Material This Product Will Be Packaged In:

Child-Resistant Packaging	Unit Packaging		Water Soluble Packaging		2. Type of Container
☐ Yes ☒ No	☐ Yes ☒ No		☐ Yes ☒ No		☒ Metal ☒ Plastic ☐ Glass ☐ Paper ☐ Other (Specify) _____
**** Certification must be submitted***	If "Yes" Unit Packaging wgt.	No. per Container	If "Yes" Packaging wgt.	No. per Container	

3. Location of Net Contents Information	4. Size(s) Retail Container:	5. Location of Label Directions
☐ Label ☒ Container	275 Gallon plastic tote, 400 Gallon stainless steel tote, bulk	☒ On Label ☐ On Labeling accompanying product

6. Manner in Which Label is Affixed to Product ☐ Lithograph ☒ Paper Glued ☐ Other _____ ☐ Stenciled

Section - IV

1. Contact Point *(Complete items directly below for identification of individual to be contacted, if necessary, to process this application..)*

Name	Title	Telephone No. (Include Area Code)
Linda Fane	Senior Manager/Regulatory Affairs	630-305-1455

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

2. Signature Linda Fane	3. Title Senior Manager/Regulatory Affairs	6. Date Application Received **(Stamped)**
4. Typed Name Linda Fane	5. Date December 12, 2017	

Flint, Tara

From: Fane, Linda <lfane@ecolab.com>
Sent: Wednesday, February 7, 2018 11:38 AM
To: Miederhoff, Eric; Flint, Tara
Cc: Fane, Linda
Subject: RE: Revision of DOT statement, Reg. No. 1706-240
Attachments: 60615_1706-239_Master Label_20180207_highlighted.pdf; 60615_1706-239_Master Label_20180207_no highlights.pdf; 60620_1706-240_Master Label_20180207 _highlighted.pdf; 60620_1706-240_Master Label_20180207_no highlights.pdf; 60630_ 1706-241_Master Label_20180208_highlighted.pdf; 60630_1706-241_Master Label_ 20180208_no highlights.pdf

Hi Eric and Tara,

Per your request (see email below), attached please find the updated master labels (highlighted and standard) for the following registrations:
1706-239
1706-240
1706-241

The only change to each label is the update to the DOT transportation statement to "PRODUCT IS NOT REGULATED UNDER DOT REGULATIONS DURING TRANSPORTATION".

If you have any questions or require any additional information to complete these reviews, please let me know.

Thank you!
Linda

Linda Fane
Senior Manager, Regulatory Affairs
NALCO Water | An Ecolab Company 1601 W. DIEHL ROAD, NAPERVILLE, IL 60563
T 630 305 1455 **F** 630 305 2985 **E** lfane@ecolab.com"

From: Miederhoff, Eric [mailto:Miederhoff.Eric@epa.gov]
Sent: Thursday, January 25, 2018 7:57 AM
To: Flint, Tara <flint.tara@epa.gov>; Fane, Linda <lfane@ecolab.com>
Subject: RE: Revision of DOT statement, Reg. No. 1706-240

Hi Linda,

Please make this correction for other AD products and active ingredients as well. The language also appears on a urea product, 1706-241.

Thank you,

Eric Miederhoff
Product Manager, Team 31
Regulatory Management Branch I
Antimicrobials Division
Office of Pesticide Programs

Environmental Protection Agency
703-347-8028

From: Flint, Tara
Sent: Thursday, January 25, 2018 8:42 AM
To: lfane@ecolab.com
Cc: Miederhoff, Eric <Miederhoff.Eric@epa.gov>
Subject: Revision of DOT statement, Reg. No. 1706-240

Good morning Ms. Fane,

I am one of the regulatory environmental specialists here in the Antimicrobials Division of the EPA. You recently had a label for 1706-168 that you worked on with Donna Kamarei to revise the Department of Transportation statements. Due to those changes, Eric Miederhoff and I are reaching out to initiate the same revisions for your registered ammonium sulfate product with us, Reg. No. 1706-240.

Based on the email correspondence I received from Donna, the statement should now read "Product is not regulated under DOT regulations during transport". If you could revise the label for 1706-240, Eric and I will process this as an agency-initiated notification, so no application page or cover letter is necessary.

Thank you!

Tara Flint
Environmental Protection Specialist
RMB1 | Antimicrobials Division
OPP | Environmental Protection Agency
(703) 347-0398

CONFIDENTIALITY NOTICE: This e-mail communication and any attachments may contain proprietary and privileged information for the use of the designated recipients named above. Any unauthorized review, use, disclosure or distribution is prohibited. If you are not the intended recipient, please contact the sender by reply e-mail and destroy all copies of the original message.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

February 26, 2018

Linda Fane
Regulatory Affairs Senior Manager
Nalco Company LLC
1601 West Diehl Road
Naperville, IL 60563

Subject: Notification per PRN 98-10 – Revision of DOT regulation statement
Product Name: Nalco 60620
EPA Registration Number: 1706-240
Application Date: February 7, 2018
Decision Number: 538635

Dear Ms. Fane:

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 Tara Flint via email at flint.tara@epa.gov or Eric Miederhoff at Miederhoff.eric@epa.gov.

Sincerely,

E. Miederhoff

Eric Miederhoff
Product Manager 31
Regulatory Management Branch I
Antimicrobials Division (7510P)
Office of Pesticide Programs

PRECAUTIONARY STATEMENTS: HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed or absorbed through the skin. May cause irritation to the eyes and skin. Do not get in eyes, on skin, or on clothing. Use with adequate ventilation. Wear protective eyewear (goggles, face shield or safety glasses), protective clothing and protective gloves (rubber, chemical resistant) when handling. Remove contaminated clothing and wash clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic organisms. 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.

PHYSICAL AND CHEMICAL HAZARDS

Direct mixing of this product with sodium hypochlorite solutions and other strong oxidizing and alkali chemicals will release hazardous gases. Only mix with other chemicals or materials solutions following the Directions for Use of this product.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Keep container tightly closed. Store in a dry place. Leaking or damaged containers should be placed in an overpack container for disposal. Spills should be contained and cleaned using an absorbent material and disposed of in a sanitary landfill.

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.

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.

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 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.

NOTIFICATION

1706-240

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:

02/26/2018

Revised 02/07/2018
EPA Reg. # 1706-240
Page 1 of 2

NALCO Water
An Ecolab Company

NALCO® 60620

A MICROORGANISM CONTROL CHEMICAL

ACTIVE INGREDIENT:
Ammonium Sulfate.....20.0%
INERT INGREDIENTS:.....80.0%
TOTAL:.....100.0%

EPA Reg. No. 1706-240

EPA Est. No. 1706-AL-1 (MG)	EPA Est. No. 1706-PA-1 (EL)
EPA Est. No. 1706-CA-1 (CR)	EPA Est. No. 1706-WA-1 (VW)
EPA Est. No. 1706-IL-1 (BP)	EPA Est. No. 1706-LA-2 (PL)

Letter in () that matches first letter in batch number identifies the establishment number.

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID

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 a doctor for treatment advice.

IF IN EYES: Hold eyes 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 a doctor for treatment advice.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or a doctor for treatment advice.

NOTE: Have the product container or label with you when calling a poison control center or a doctor, or going for treatment.

SEE LEFT SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

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

Nalco Company, LLC
1601 West Diehl Road
Naperville, IL 60563-1198
EMERGENCY PHONE NO. (800) 424-9300

NET CONTENTS SHOWN ELSEWHERE ON CONTAINER

PRODUCT IS NOT REGULATED UNDER DOT REGULATIONS DURING TRANSPORTATION

DIRECTIONS FOR USE

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

For the control of bacteria, algae and fungi. Nalco 60620 must be used in conjunction with: 1) an EPA registered sodium hypochlorite product (12.5%) to produce monochloramine; and 2) the OxiPRO®delivery system at a pH of ≥8.5 as described below. The OxiPRO delivery system can be configured for a primary or secondary dilution strategy. Your Nalco technical representative will determine which OxiPRO delivery system configuration is appropriate for treatment of your system.

Nalco 60620 and the sodium hypochlorite are mixed in a specially designed OxiPRO system that produces the monochloramine solution on site. The products are blended to achieve a molar ratio of 0.5-1.2 ammonium sulfate to 1.0 sodium hypochlorite (12.5%). The monochloramine is typically achieved by mixing 0.8 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). The OxiPRO delivery system controller ensures the automatic production of the dilute monochloramine solution, controls the optimization of the production process, and ensures adequate dosing into the water system requiring treatment. The design, treatment, installation, calibration, and operation of the feeding system in all plants is to be conducted only by authorized and trained personnel.

Use of this product for any other purpose or contrary to the instructions below, or without the supervision of authorized trained personnel is prohibited.

Note: Do not use other feeding modes to mix Nalco 60620 and the sodium hypochlorite. Non-authorized personnel are prohibited from operating or otherwise handling the feeding system or its chemical ingredients.

PULP AND PAPERMILL WATER SYSTEMS AND PRODUCTION OF FIBERGLASS

Dosage Rates: When the system is noticeably fouled, apply sufficient Nalco 60620 and sodium hypochlorite to achieve a chlorine residual in excess of the system oxidant demand. The monochloramine solution produced by the delivery system is immediately added to the influent water system and/or the process waters for which treatment is required. The monochloramine solution may be added to any point of uniform mixing. Addition may be continuous or intermittent depending on the severity of the contamination when treatment starts, and on other system operation parameters.

A. SLUG FEED METHOD

Initial Dose: When the system is noticeably fouled, add the appropriate amount of monochloramine to the system to obtain from 1 to 10 ppm total available chlorine. The monochloramine dosage is typically achieved by mixing 0.8 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Repeat until control is achieved. Badly fouled systems must be cleaned before treatment is begun.

Subsequent Dose: When microbial control is evident, add the appropriate amount of monochloramine to the system daily, or as needed to maintain control and keep the total chlorine residual at 1 to 10 ppm.

B. INTERMITTENT FEED METHOD

Initial Dose: When the system is noticeably fouled, add the appropriate amount of monochloramine to the system to obtain from 1 to 10 ppm total available chlorine. The monochloramine dosage is typically achieved by mixing 0.8 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Badly fouled systems must be cleaned before treatment is begun.

Subsequent Dose: When microbial control is evident, add the appropriate amount of monochloramine to the system to obtain a 1 – 10 ppm total chlorine residual.

C. CONTINUOUS FEED METHOD

Initial Dose: When the system is noticeably fouled, add the appropriate amount of monochloramine to the system to obtain 1 to 10 ppm total available chlorine. The monochloramine dosage is typically achieved by mixing 0.8 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Badly fouled systems must be cleaned before treatment is begun.

Subsequent Dosage: Maintain this treatment level by starting a continuous feed of monochloramine to maintain a 1 to 10 ppm total chlorine residual.
Note to reviewer: Text in brackets [ ] is considered optional text. The optional statement "Not Approved for California" may be added to other use sites as required by CDPR.

INDUSTRIAL WATER SYSTEMS:
Nalco 60620 is used for the control of algal, bacterial and fungal deposits in industrial cooling towers, recirculating cooling water systems, evaporative condensers, influent water systems, industrial fresh water systems, source water for potable water treatment facilities, airwashers, seawater desalination and reverse osmosis systems [(Not Approved for California)], paint spray booth sumps, ponds used for cooling purposes, sewage and wastewater systems [(Not Approved for California)]. This product is also used for the control of algae, bacteria, fungi and [mollusks – NOT APPROVED FOR CALIFORNIA] in both seawater and freshwater influent systems.

When this product is used to treat sewage and wastewater systems, seawater, and freshwater influent systems for once-through industrial water systems [(Not Approved for California)], and seawater desalination and reverse osmosis systems, and the system water is not sent to a POTW; residual levels of monochloramine in the effluent must be monitored and neutralized using on-line monitoring and control equipment.

When this product is used to treat recirculating cooling water systems, evaporative condensers, influent water systems (not part of once-through industrial water systems), airwashers, paint spray booth sumps,–ponds used for cooling purposes; effluent detection of monochloramine should be conducted at least once per shift. If monochloramine is detected in the effluent, it can be neutralized by the addition of sodium metabisulfite until the monochloramine is no longer detected.

Dosage Rates: When noticeably fouled, apply sufficient product and sodium hypochlorite to achieve a total chlorine residual of at least 1 ppm in excess of the system oxidant demand. Once control is achieved, treatment rates can be reduced to sub-demand rates from 50% to 80% of system demand. The product may be added to the system continuously or intermittently as needed to any area of the system where uniform mixing can be obtained.

For intermittent treatment: The monochloramine dosage is typically achieved by mixing 0.8 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Apply the solution at a rate to obtain 1 to 2 ppm in excess of the system oxidant demand (maximum of 5 ppm measured) as total chlorine in the water being treated for 5 to 60 minutes every 1 to 6 hours. The frequency of feeding and the duration of treatment will depend on the severity of the problem. Badly fouled systems must be cleaned before initial treatment.

For continuous treatment: The monochloramine dosage is typically achieved by mixing 0.8 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Apply the solution at a rate to obtain 0.5 to 1 ppm in excess of the system oxidant demand (maximum of 5 ppm measured) as total chlorine in the water being treated on a continuous basis. The frequency of feeding and the duration of treatment will depend on the severity of the problem. Badly fouled systems must be cleaned before initial treatment.

[The following are optional marketing text]

CRC KOSHER 1005

OxiPRO MICROBIAL CONTROL TECHNOLOGY

NSF Certified to NSF/ANSI 60

[Insert MUL]
[Insert Chemical Name]
[Insert NSF language]

PRODUCT IS NOT REGULATED UNDER DOT REGULATIONS DURING TRANSPORTATION

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

August 31, 2017

Rachel Stockman
Regulatory Specialist
Nalco Company LLC
1601 West Diehl Road
Naperville, IL 60563

Subject: Label Amendment – Addition of non-public health use site
Product Name: Nalco 60620
EPA Registration Number: 1706-240
Application Date: May 19, 2017
Decision Number: 529869

Dear Ms. Stockman:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

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.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance

with FIFRA section 6. If you have any questions, please contact Tara Flint by phone at 703-347-0398, or via email at flint.tara@epa.gov.

Sincerely,

E. Miederhoff

Eric Miederhoff
Product Manager 31
Regulatory Management Branch I
Antimicrobials Division (7510P)
Office of Pesticide Programs

Enclosure

PRECAUTIONARY STATEMENTS: HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed or absorbed through the skin. May cause irritation to the eyes and skin. Do not get in eyes, on skin, or on clothing. Use with adequate ventilation. Wear protective eyewear (goggles, face shield or safety glasses), protective clothing and protective gloves (rubber, chemical resistant) when handling. Remove contaminated clothing and wash clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic organisms. 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.

PHYSICAL AND CHEMICAL HAZARDS

Direct mixing of this product with sodium hypochlorite solutions and other strong oxidizing and alkali chemicals will release hazardous gases. Only mix with other chemicals or materials solutions following the Directions for Use of this product.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Keep container tightly closed. Store in a dry place. Leaking or damaged containers should be placed in an overpack container for disposal. Spills should be contained and cleaned using an absorbent material and disposed of in a sanitary landfill.

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.

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.

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 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.

ACCEPTED
08/31/2017
Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 1706-240

NALCO Water
An Ecolab Company

NALCO® 60620

A MICROORGANISM CONTROL CHEMICAL

ACTIVE INGREDIENT:
Ammonium Sulfate.....20.0%
INERT INGREDIENTS:.....80.0%
TOTAL:.....100.0%

EPA Reg. No. 1706-240

EPA Est. No. 1706-AL-1 (MG)	EPA Est. No. 1706-PA-1 (EL)
EPA Est. No. 1706-CA-1 (CR)	EPA Est. No. 1706-WA-1 (VW)
EPA Est. No. 1706-IL-1 (BP)	EPA Est. No. 1706-LA-2 (PL)

Letter in () that matches first letter in batch number identifies the establishment number.

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID

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 a doctor for treatment advice.

IF IN EYES: Hold eyes 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 a doctor for treatment advice.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or a doctor for treatment advice.

NOTE: Have the product container or label with you when calling a poison control center or a doctor, or going for treatment.

SEE LEFT SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

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

Nalco Company, LLC
1601 West Diehl Road
Naperville, IL 60563-1198
EMERGENCY PHONE NO. (800) 424-9300

NET CONTENTS SHOWN ELSEWHERE ON CONTAINER
PRODUCT IS NOT REGULATED DURING TRANSPORTATION

DIRECTIONS FOR USE

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

For the control of bacteria, algae and fungi. Nalco 60620 must be used in conjunction with: 1) an EPA registered sodium hypochlorite product (12.5%) to produce monochloramine; and 2) the OxiPRO delivery system at a pH of ≥8.5 as described below. The OxiPRO delivery system can be configured for a primary or secondary dilution strategy. Your Nalco technical representative will determine which OxiPRO delivery system configuration is appropriate for treatment of your system.

Nalco 60620 and the sodium hypochlorite are mixed in a specially designed OxiPRO system that produces the monochloramine solution on site. The products are blended to achieve a molar ratio of 0.5-1.2 ammonium sulfate to 1.0 sodium hypochlorite (12.5%). The monochloramine is typically achieved by mixing 0.8 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). The OxiPRO delivery system controller ensures the automatic production of the dilute monochloramine solution, controls the optimization of the production process, and ensures adequate dosing into the water system requiring treatment. The design, treatment, installation, calibration, and operation of the feeding system in all plants is to be conducted only by authorized and trained personnel.

Use of this product for any other purpose or contrary to the instructions below, or without the supervision of authorized trained personnel is prohibited.

Note: Do not use other feeding modes to mix Nalco 60620 and the sodium hypochlorite. Non-authorized personnel are prohibited from operating or otherwise handling the feeding system or its chemical ingredients.

PULP AND PAPERMILL WATER SYSTEMS AND PRODUCTION OF FIBERGLASS

Dosage Rates: When the system is noticeably fouled, apply sufficient Nalco 60620 and sodium hypochlorite to achieve a chlorine residual in excess of the system oxidant demand. The monochloramine solution produced by the delivery system is immediately added to the influent water system and/or the process waters for which treatment is required. The monochloramine solution may be added to any point of uniform mixing. Addition may be continuous or intermittent depending on the severity of the contamination when treatment starts, and on other system operation parameters.

A. SLUG FEED METHOD

Initial Dose: When the system is noticeably fouled, add the appropriate amount of monochloramine to the system to obtain from 1 to 10 ppm total available chlorine. The monochloramine dosage is typically achieved by mixing 0.8 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Repeat until control is achieved. Badly fouled systems must be cleaned before treatment is begun.

Subsequent Dose: When microbial control is evident, add the appropriate amount of monochloramine to the system daily, or as needed to maintain control and keep the total chlorine residual at 1 to 10 ppm.

B. INTERMITTENT FEED METHOD

Initial Dose: When the system is noticeably fouled, add the appropriate amount of monochloramine to the system to obtain from 1 to 10 ppm total available chlorine. The monochloramine dosage is typically achieved by mixing 0.8 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Badly fouled systems must be cleaned before treatment is begun.

Subsequent Dose: When microbial control is evident, add the appropriate amount of monochloramine to the system to obtain a 1 – 10 ppm total chlorine residual.

C. CONTINUOUS FEED METHOD

Initial Dose: When the system is noticeably fouled, add the appropriate amount of monochloramine to the system to obtain 1 to 10 ppm total available chlorine. The monochloramine dosage is typically achieved by mixing 0.8 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Badly fouled systems must be cleaned before treatment is begun.

Subsequent Dosage: Maintain this treatment level by starting a continuous feed of monochloramine to maintain a 1 to 10 ppm total chlorine residual.
Note to reviewer: Text in brackets [ ] is considered optional text. The optional statement "Not Approved for California" may be added to other use sites as required by CDPR.

INDUSTRIAL WATER SYSTEMS:
Nalco 60620 is used for the control of algal, bacterial and fungal deposits in industrial cooling towers, recirculating cooling water systems, evaporative condensers, influent water systems, industrial fresh water systems, source water for potable water treatment facilities, airwashers, seawater desalination and reverse osmosis systems [(Not Approved for California)], paint spray booth sumps, ponds used for cooling purposes, sewage and wastewater systems [(Not Approved for California)]. This product is also used for the control of algae, bacteria, fungi and [mollusks – NOT APPROVED FOR CALIFORNIA] in both seawater and freshwater influent systems.

When this product is used to treat sewage and wastewater systems, seawater, and freshwater influent systems for once-through industrial water systems [(Not Approved for California)], and seawater desalination and reverse osmosis systems, and the system water is not sent to a POTW; residual levels of monochloramine in the effluent must be monitored and neutralized using on-line monitoring and control equipment.

When this product is used to treat recirculating cooling water systems, evaporative condensers, influent water systems (not part of once-through industrial water systems), airwashers, paint spray booth sumps,-ponds used for cooling purposes; effluent detection of monochloramine should be conducted at least once per shift. If monochloramine is detected in the effluent, it can be neutralized by the addition of sodium metabisulfite until the monochloramine is no longer detected.

Dosage Rates: When noticeably fouled, apply sufficient product and sodium hypochlorite to achieve a total chlorine residual of at least 1 ppm in excess of the system oxidant demand. Once control is achieved, treatment rates can be reduced to sub-demand rates from 50% to 80% of system demand. The product may be added to the system continuously or intermittently as needed to any area of the system where uniform mixing can be obtained.

For intermittent treatment: The monochloramine dosage is typically achieved by mixing 0.8 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Apply the solution at a rate to obtain 1 to 2 ppm in excess of the system oxidant demand (maximum of 5 ppm measured) as total chlorine in the water being treated for 5 to 60 minutes every 1 to 6 hours. The frequency of feeding and the duration of treatment will depend on the severity of the problem. Badly fouled systems must be cleaned before initial treatment.

For continuous treatment: The monochloramine dosage is typically achieved by mixing 0.8 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Apply the solution at a rate to obtain 0.5 to 1 ppm in excess of the system oxidant demand (maximum of 5 ppm measured) as total chlorine in the water being treated on a continuous basis. The frequency of feeding and the duration of treatment will depend on the severity of the problem. Badly fouled systems must be cleaned before initial treatment.

[The following are optional marketing text]

cRc KOSHER 1005

OxiPRO MICROBIAL CONTROL TECHNOLOGY

NSF

[Insert MUL]
[Insert Chemical Name]
[Insert NSF language]

PRODUCT IS NOT REGULATED DURING TRANSPORTATION

RE: Ammonium sulfate question

Erickson, William

Tue 8/29/2017 11:48 AM

To:Breithaupt, James <Breithaupt.James@epa.gov>; Parsons, Laura <Parsons.Laura@epa.gov>;

Cc:Flint, Tara <flint.tara@epa.gov>; McMahon, Tim <McMahon.Tim@epa.gov>; Miederhoff, Eric <Miederhoff.Eric@epa.gov>; Leighton, Timothy <Leighton.Timothy@epa.gov>; Dole, Timothy <Dole.Timothy@epa.gov>;

I agree

From: Breithaupt, James
Sent: Tuesday, August 29, 2017 11:45 AM
To: Parsons, Laura <Parsons.Laura@epa.gov>; Erickson, William <Erickson.William@epa.gov>
Cc: Flint, Tara <flint.tara@epa.gov>; McMahon, Tim <McMahon.Tim@epa.gov>; Miederhoff, Eric <Miederhoff.Eric@epa.gov>; Leighton, Timothy <Leighton.Timothy@epa.gov>; Dole, Timothy <Dole.Timothy@epa.gov>
Subject: RE: Ammonium sulfate question

I do not see any additional exposure to non-target organisms based on this proposed use. The basis is the formation of monochloramine and the required neutralization by sodium metabisulfite.

From: Parsons, Laura
Sent: Tuesday, August 29, 2017 11:30 AM
To: Erickson, William <Erickson.William@epa.gov>; Breithaupt, James <Breithaupt.James@epa.gov>
Cc: Flint, Tara <flint.tara@epa.gov>; McMahon, Tim <McMahon.Tim@epa.gov>; Miederhoff, Eric <Miederhoff.Eric@epa.gov>; Leighton, Timothy <Leighton.Timothy@epa.gov>; Dole, Timothy <Dole.Timothy@epa.gov>
Subject: RE: Ammonium sulfate question

There should be no new HH concerns.

For eco risks, the lack of potential exposure is usually based on the compounds being neutralized prior to disposal.

Bill and Jim – can you look at this label to see if you think that there will be any additional nontarget organism exposure from this new use? The explanation is in the first message of this email chain.

Thanks,
LP

From: Flint, Tara
Sent: Tuesday, August 29, 2017 8:14 AM
To: McMahon, Tim <McMahon.Tim@epa.gov>; Parsons, Laura <Parsons.Laura@epa.gov>; Miederhoff, Eric <Miederhoff.Eric@epa.gov>; Leighton, Timothy <Leighton.Timothy@epa.gov>; Dole, Timothy

<Dole.Timothy@epa.gov>
Subject: RE: Ammonium sulfate question

Attached is the electronic version of the label for everyone.

From: McMahon, Tim
Sent: Tuesday, August 29, 2017 7:40 AM
To: Parsons, Laura <Parsons.Laura@epa.gov>; Miederhoff, Eric <Miederhoff.Eric@epa.gov>; Flint, Tara <flint.tara@epa.gov>; Leighton, Timothy <Leighton.Timothy@epa.gov>; Dole, Timothy <Dole.Timothy@epa.gov>
Subject: RE: Ammonium sulfate question

Which is also a valid point. The use, although implying exposure in drinking water, may not change our assessment since we went with a qualitative approach for human health.

From: Parsons, Laura
Sent: Monday, August 28, 2017 6:09 PM
To: Miederhoff, Eric <Miederhoff.Eric@epa.gov>; Flint, Tara <flint.tara@epa.gov>; McMahon, Tim <McMahon.Tim@epa.gov>; Leighton, Timothy <Leighton.Timothy@epa.gov>; Dole, Timothy <Dole.Timothy@epa.gov>
Subject: RE: Ammonium sulfate question

I would like to look at the label.

I am not too worried about it being new exposure in drinking water. They use it to release chlorine/chloramine and this would be dissipated by the time the water is treated and distributed.

From: Miederhoff, Eric
Sent: Monday, August 28, 2017 4:13 PM
To: Flint, Tara <flint.tara@epa.gov>; McMahon, Tim <McMahon.Tim@epa.gov>; Leighton, Timothy <Leighton.Timothy@epa.gov>; Dole, Timothy <Dole.Timothy@epa.gov>
Cc: Parsons, Laura <Parsons.Laura@epa.gov>
Subject: RE: Ammonium sulfate question

We are concerned that the proposed amendment may result in a new avenue of exposure via drinking water, since this use proposes to treat water intended for potable water treatment facilities.

From: Flint, Tara
Sent: Monday, August 28, 2017 3:44 PM
To: McMahon, Tim <McMahon.Tim@epa.gov>; Leighton, Timothy <Leighton.Timothy@epa.gov>; Dole, Timothy <Dole.Timothy@epa.gov>
Cc: Parsons, Laura <Parsons.Laura@epa.gov>; Miederhoff, Eric <Miederhoff.Eric@epa.gov>
Subject: RE: Ammonium sulfate question

Hi Tim

So a bit more context. The label has subheadings under the directions for use for "pulp and papermill water systems" and "industrial water systems". They have added "used for the control of algal, bacterial and fungal deposits in source water for potable water treatment facilities".

The use rate is mixing 0.8 gallons of the product (at 20% ammonium sulfate) with 1 gallon of sodium hypochlorite. It's applied to levels of 0.5-2 ppm of the residual chlorine in excess of the system oxidant demand.

I can show you the label as well if you'd like.

Tara

From: McMahon, Tim
Sent: Monday, August 28, 2017 2:30 PM
To: Flint, Tara <flint.tara@epa.gov>; Leighton, Timothy <Leighton.Timothy@epa.gov>; Dole, Timothy <Dole.Timothy@epa.gov>
Subject: RE: Ammonium sulfate question

I'm not sure what the language of that amendment means. My initial impression is that the amendment is skirting the edges of the current water uses for ammonium sulfate so I am not sure if it is a new use or not. This use seems like a more direct use in potable water which would imply a new use to me. What is the use rate?

From: Flint, Tara
Sent: Monday, August 28, 2017 1:54 PM
To: Leighton, Timothy <Leighton.Timothy@epa.gov>; Dole, Timothy <Dole.Timothy@epa.gov>; McMahon, Tim <McMahon.Tim@epa.gov>
Subject: Ammonium sulfate question

Good afternoon RASSB Tims

I have worked with several ammonium sulfate products and I know several of you are currently looking at a new registration with this for me. I wanted to send you a quick question concerning a label amendment I am working on.

The company is trying to add on the use for "source water for potable water treatment facilities" within the water treatment sub-heading. Do you think that would be considered a new use for the a.i. or should it be covered? I have attached a couple of the original assessment docs for reference.

Any input is appreciated! Thank you.

Tara Flint
Environmental Protection Specialist
RMB1 | Antimicrobials Division
OPP | Environmental Protection Agency
(703) 347-0398

OFFICIAL LISTING

NSF International Certifies that the products appearing on this Listing conform to the requirements of NSF/ANSI Standard 60 - Drinking Water Treatment Chemicals - Health Effects

This is the Official Listing recorded on August 17, 2017.

Nalco Company
1601 West Diehl Road
Naperville, IL 60563-1198
630-305-1000

Facility: # 3100 Victoria Australia

Chemical/ Trade Designation	Function	Max Use	
Aluminum Chlorohydrate [AL]			
Ultrion™ 8187	Coagulation & Flocculation	180	mg/L
Polyaluminum Chloride [AL]			
Ultrion™ 8187	Coagulation & Flocculation	180	mg/L

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water shall not exceed 2 mg/L.

Facility: # 20 USA

Chemical/ Trade Designation	Function	Max Use	
Polyaluminum Chloride [AL]			
Aluminex 5	Coagulation & Flocculation	250	mg/L

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water shall not exceed 2 mg/L.

Facility: # 21 Canada

Chemical/ Trade Designation	Function	Max Use	
Polyaluminum Chloride [AL]			
Aluminex 5	Coagulation & Flocculation	250	mg/L
CLAR30481A	Coagulation & Flocculation	200	mg/L
Polymer Blends [AL] [PY]			
Aluminex 6	Coagulation & Flocculation	166	mg/L
Aluminex OS8	Coagulation & Flocculation	125	mg/L
Aluminex OSX	Coagulation & Flocculation	125	mg/L

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water shall not exceed 2 mg/L.

[PY] Polyamines Certified by NSF International comply with 40 CFR 141.111 requirements for percent monomer and dose.

Facility: # 29 USA

Note: Additions shall not be made to this document without prior evaluation and acceptance by NSF International.

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Chemical/ Trade Designation	Function	Max Use	
Ferric Sulfate			
Ferralyte 8131	Coagulation & Flocculation	300	mg/L
Polymer Blends [AL] [PY]			
CLAR30443A	Coagulation & Flocculation	250	mg/L

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water shall not exceed 2 mg/L.

[PY] Polyamines Certified by NSF International comply with 40 CFR 141.111 requirements for percent monomer and dose.

Facility: # 90 USA

Chemical/ Trade Designation	Function	Max Use
Sodium Chloride [1] [2]		
Nalco 73660S	Other	NA
PreChlor	Other	NA
PreChlor 99.97%, Salt	Other	NA
Sodium Chloride (99.97%)	Other	NA

[1] Certified for use in electrochlorination process for on-site disinfectant generators as well as softener resin regeneration.

[2] For electrolytic sodium hypochlorite generator use of this product, the maximum disinfectant feed concentration shall not exceed 10 mg Cl2/L. This requirement limits bromate production in the effluent sodium hypochlorite and is based on the bromide concentration in the salt.

Facility: #101 USA

Chemical/ Trade Designation	Function	Max Use	
Miscellaneous Water Supply Products [1] [2]			
NALCO® PC-96	Membrane Cleaner	NA	
PermaClean™ PC-98	Membrane Cleaner	NA	
PERMACLEAN™ PC-98 PLUS	Membrane Cleaner	NA	
Poly (Diallyldimethylammonium Chloride) (pDADMAC)			
Cat-Floc 8103 Plus	Coagulation & Flocculation	57	mg/L
Polyacrylamide [PC]			
Nalclear 7763	Coagulation & Flocculation Filtration Aid	1	mg/L
Nalclear 7766 Plus	Coagulation & Flocculation	1	mg/L
Nalclear 7768	Coagulation & Flocculation	1	mg/L
Nalclear 7769	Coagulation & Flocculation	1	mg/L
Nalclear 8170 PULV	Coagulation & Flocculation	1	mg/L
Nalclear 8173 PULV	Coagulation & Flocculation	1	mg/L
Nalclear 8182	Coagulation & Flocculation	1	mg/L
Optimer 7128	Coagulation & Flocculation	1	mg/L
Optimer 8110 PULV	Coagulation & Flocculation	1	mg/L
Polyamines [PY]			
Nalcolyte™ 8100	Coagulation & Flocculation	10	mg/L

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Nalcolyte™ 8105	Coagulation & Flocculation	10	mg/L
Sodium Aluminate [AL]			
Nalco 2	Coagulation & Flocculation	100	mg/L
Sodium Hypochlorite [CL]			
PermaCare™ PC-7410	Oxidant	29	mg/L
Sodium Silicate			
Nalco 2513	Corrosion & Scale Control	25	mg/L
Tetrapotassium Pyrophosphate			
Nalco 7396	Corrosion & Scale Control Sequestering	29	mg/L

[1] These products are designed to be used off-line and flushed out prior to using the system for drinking water, following the manufacturer's use instructions.

[2] The pH of the influent and effluent water should be monitored to ensure that all traces of the product have been removed before placing into service.

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water shall not exceed 2 mg/L.

[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations.

[PC] Polyacrylamide Products Certified by NSF International comply with 40 CFR 141.111 requirements for percent monomer and dose.

[PY] Polyamines Certified by NSF International comply with 40 CFR 141.111 requirements for percent monomer and dose.

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Facility: #106 USA

Chemical/ Trade Designation	Function	Max Use	
Miscellaneous Corrosion Chemicals [ZN]			
Nalco 7390	Corrosion & Scale Control	33	mg/L
Zinc Chloride [ZN]			
Nalco 7384	Corrosion & Scale Control	6	mg/L

[ZN] Based on an evaluation of health effects data, the level of zinc in the finished drinking water shall not exceed 2.0 mg/L.

Facility: #108 USA

Chemical/ Trade Designation	Function	Max Use	
Polymer Blends [AL] [PY]			
ULTRION™ 8157	Coagulation & Flocculation	102	mg/L

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water shall not exceed 2 mg/L.

[PY] Polyamines Certified by NSF International comply with 40 CFR 141.111 requirements for percent monomer and dose.

Facility: #109 USA

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Chemical/ Trade Designation	Function	Max Use	
Ammonium Sulfate			
NALCO® 60620 DW	Chloramination Disinfection & Oxidation	5	mg/L
Ferric Sulfate			
Ferralyte 8131	Coagulation & Flocculation	300	mg/L
Miscellaneous Treatment Chemical			
PermaTreat™ PC-191	Reverse Osmosis Antiscalant	15	mg/L
PermaTreat™ PC-191 T	Reverse Osmosis Antiscalant	15	mg/L
Purate [CL]	Disinfection & Oxidation	5	mg/L
PurateDW [CL]	Disinfection & Oxidation	5	mg/L
Miscellaneous Water Supply Products [1]			
PermaClean™ PC-11	Reverse Osmosis Membrane Biocide	NA	
Miscellaneous Water Supply Products			
NALCO® PC-2040	Distillation Antiscalant Reverse Osmosis Antiscalant	20	mg/L
TRASAR™ 23299	Separation Process Tracer	4	mg/L
Miscellaneous Water Supply Products [2]			
PermaClean™ PC-87	Reverse Osmosis Antiscalant	NA	
Phosphoric Acid			
3D TRASAR™ 3DT186	Corrosion & Scale Control pH Adjustment	21	mg/L
Poly (Diallyldimethylammonium Chloride)(pDADMAC)			
Cat-Floc 8102 Plus	Coagulation & Flocculation	50	mg/L
Cat-Floc 8103 Plus	Coagulation & Flocculation	57	mg/L
Cat-Floc 8108 Plus	Coagulation & Flocculation	50	mg/L
Cat-Floc 8799 Plus	Coagulation & Flocculation	25	mg/L
Cat-Floc DL	Coagulation & Flocculation Filtration Aid	57	mg/L
Cat-Floc LS	Coagulation & Flocculation Filtration Aid	100	mg/L
PermaFloc™ PC-306	Coagulation & Flocculation	57	mg/L
PermaFloc™ PC-306T	Coagulation & Flocculation	57	mg/L
VeliGON TL-M	Coagulation & Flocculation Molluscicide	50	mg/L
Polyacrylamide [3] [PC]			
Nalco ASP-700	Drilling Fluid	NA	
Polyacrylamide [PC]			
BOM ZE	Coagulation & Flocculation Filtration Aid	1	mg/L
Core Shell 71325	Coagulation & Flocculation	1	mg/L
Nalclear 7744	Coagulation & Flocculation	4	mg/L
Nalclear 7763	Coagulation & Flocculation Filtration Aid	1	mg/L
Nalclear 7766 Plus	Coagulation & Flocculation	1	mg/L
Nalclear 7768	Coagulation & Flocculation	1	mg/L
Nalclear 7769	Coagulation & Flocculation	1	mg/L

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Nalclear 8173 PULV	Coagulation & Flocculation	1	mg/L
Nalclear 8181	Coagulation & Flocculation	1	mg/L
	Filtration Aid		
Nalco® 9970	Coagulation & Flocculation	1	mg/L
OPTIMER™ 7193 PLUS	Coagulation & Flocculation	1	mg/L
Prosedim AEP45109	Coagulation & Flocculation	1	mg/L
Polyaluminum Chloride [AL]			
Ultrion™ 8187	Coagulation & Flocculation	180	mg/L
Polyamines [PY]			
Nalcolyte 8100	Coagulation & Flocculation	10	mg/L
Nalcolyte 8105	Coagulation & Flocculation	10	mg/L
Polymer Blends [AL] [PY]			
Cat-Floc 4954	Coagulation & Flocculation	100	mg/L
Cat-Floc KL-10	Coagulation & Flocculation	125	mg/L
Ferralyte 8130	Coagulation & Flocculation	150	mg/L
Ferralyte 8133	Coagulation & Flocculation	100	mg/L
Nalco® DVP1C002	Coagulation & Flocculation	200	mg/L
ULTRION 8905	Coagulation & Flocculation	88	mg/L
ULTRION™ 8155	Coagulation & Flocculation	88	mg/L
ULTRION™ 8156	Coagulation & Flocculation	97	mg/L
ULTRION™ 8157	Coagulation & Flocculation	102	mg/L
Ultrion™ 8159	Coagulation & Flocculation	77	mg/L
	Filtration Aid		
Ultrion™ 8185	Coagulation & Flocculation	20	mg/L
Ultrion™ 8186	Coagulation & Flocculation	100	mg/L
Sodium Aluminate [AL]			
Nalco 2	Coagulation & Flocculation	100	mg/L
Sodium Bisulfate [4]			
PERMACARE™ PC-7408	Dechlorination	46	mg/L
Sodium Silicate			
Nalco 2513	Corrosion & Scale Control	25	mg/L

[1] Certified for use as an off-line membrane cleaner. When used as an off-line membrane cleaner, this product is designed to be flushed out prior to using the system for drinking water. Follow manufacturer's use instructions.

[2] These products are designed to be used off-line and flushed out prior to using the system for drinking water, following manufacturer's use instructions.

[3] This product should not be used in constructing wells in highly porous formations such as cavernous limestone.
This product is designed to be flushed out prior to using the system for drinking water.
Certification of this product is based on a well drilling model with the following assumptions:
The amount of well drilling fluid used is 3780 L (1000 U.S. gallons) to which the drilling fluid has been added at the manufacturer's recommended level. The aquifer contains 3.1 million liters of water (815,000 gallons) based on a 0.5 acre aquifer of 6.1 meter depth (20 ft.) and 25% porosity. The bore hole is 61 meters (200 ft.) in total depth, the screen is 6.1 meters in length (20 ft.), and the bore hole is 25.4 cm (10 in.) in diameter. The amount of well drilling fluid removed from the well during construction is equal to the combined volumes of the casing, the screen and the bore hole annuals around the casing and the screen, plus an additional amount removed through the well disinfection and development (90% removed).

[4] This product contains sulfite. Sulfites have been known to cause potentially lethal allergic reactions in sulfite-sensitive individuals. The maximum recommended allowable

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residual sulfite level in the finished drinking water is 100 ppb (0.1 mg/L).

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water shall not exceed 2 mg/L.

[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations.

[PC] Polyacrylamide Products Certified by NSF International comply with 40 CFR 141.111 requirements for percent monomer and dose.

[PY] Polyamines Certified by NSF International comply with 40 CFR 141.111 requirements for percent monomer and dose.

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Facility: #111 USA

Chemical/ Trade Designation	Function	Max Use	
Blended Phosphates			
CL-50	Corrosion & Scale Control Sequestering	28	mg/L
Miscellaneous Corrosion Chemicals [PC]			
BLR-3715	Corrosion & Scale Control Sequestering	7	mg/L
Miscellaneous Treatment Chemical			
PermaTreat™ PC-1638T	Reverse Osmosis Antiscalant	15	mg/L
PermaTreat™ PC-191	Reverse Osmosis Antiscalant	15	mg/L
PermaTreat™ PC-191T	Reverse Osmosis Antiscalant	15	mg/L
PermaTreat™ PC-391T Antiscalant	Reverse Osmosis Antiscalant	15	mg/L
PERMATREAT™ PC-504T	Reverse Osmosis Antiscalant	15	mg/L
Miscellaneous Water Supply Products			
NALCO® PC-1850T	Reverse Osmosis Antiscalant	7	mg/L
PERMACARE™ PC-5600	Reverse Osmosis Antiscalant	7	mg/L
PermaClean™ PC-87 [1]	Reverse Osmosis Antiscalant	N/A	
PermaClean™ PC-97	Membrane Cleaner	NA	
PermaTreat™ PC-195T	Reverse Osmosis Antiscalant	7	mg/L
Phosphoric Acid			
3D TRASAR™ 3DT186	Corrosion & Scale Control pH Adjustment	21	mg/L
Poly (Diallyldimethylammonium Chloride) (pDADMAC)			
Cat-Floc 71259	Coagulation & Flocculation	23	mg/L
Cat-Floc 8102 Plus	Coagulation & Flocculation	50	mg/L
Cat-Floc 8103 Plus	Coagulation & Flocculation	57	mg/L
Cat-Floc 8108 Plus	Coagulation & Flocculation	50	mg/L
Cat-Floc 8799 Plus	Coagulation & Flocculation	25	mg/L
Cat-Floc A	Coagulation & Flocculation	81	mg/L
Cat-Floc CFC	Coagulation & Flocculation	25	mg/L
Cat-Floc CFL	Coagulation & Flocculation	50	mg/L
Cat-Floc CL	Coagulation & Flocculation	25	mg/L
Cat-Floc DL	Coagulation & Flocculation Filtration Aid	57	mg/L

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Cat-Floc LS	Coagulation & Flocculation Filtration Aid	100	mg/L
PermaFloc™ PC-306T	Coagulation & Flocculation	57	mg/L
Veligon TL-M	Coagulation & Flocculation Molluscicide	50	mg/L
Polymer Blends [AL]			
Cat-Floc 4954	Coagulation & Flocculation	100	mg/L
Cat-Floc KL-10	Coagulation & Flocculation	125	mg/L
Ferralyte 8130	Coagulation & Flocculation	150	mg/L
Ultrion™ 8186	Coagulation & Flocculation	100	mg/L
Sodium Silicate			
Nalco 2513	Corrosion & Scale Control	25	mg/L
Tetrapotassium Pyrophosphate			
Nalco 7396	Corrosion & Scale Control Sequestering	29	mg/L

[1] These products are designed to be used off-line and flushed out prior to using the system for drinking water, following manufacturer's use instructions.

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water shall not exceed 2 mg/L.

[PC] Polyacrylamide Products Certified by NSF International comply with 40 CFR 141.111 requirements for percent monomer and dose.

[PC] Polyacrylamide Products Certified by NSF International comply with 40 CFR 141.111 requirements for percent monomer and dose.

Facility: #1110 Germany

Chemical/ Trade Designation	Function	Max Use	
Blended Phosphates			
CL-50	Corrosion & Scale Control	28	mg/L
NALCO® WT-500	Corrosion & Scale Control	28	mg/L
Miscellaneous Treatment Chemical			
PermaTreat™ PC-1611T	Reverse Osmosis Antiscalant	10	mg/L
PermaTreat™ PC-191	Reverse Osmosis Antiscalant	15	mg/L
Miscellaneous Water Supply Products			
PermaClean™ PC-11 [1]	Reverse Osmosis Membrane Biocide	NA	
PermaClean™ PC-87 [2]	Reverse Osmosis Antiscalant	NA	
PermaTreat™ PC-191T	Reverse Osmosis Antiscalant	15	mg/L

[1] Certified for use as an off-line membrane cleaner. When used as an off-line membrane cleaner, this product is designed to be flushed out prior to using the system for drinking water. Follow manufacturer's use instructions.

[2] This product is designed to be used off-line and flushed out prior to using the system for drinking water, following manufacturer's use instructions.

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Facility: #1120 Italy

Chemical/ Trade Designation	Function	Max Use	

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Miscellaneous Treatment Chemical			
NALCO® PC-2020	Distillation Antiscalant Reverse Osmosis Antiscalant	30	mg/L
OsmoTreat™ OSM35T	Reverse Osmosis Antiscalant	15	mg/L
PermaTreat™ PC-1020T	Reverse Osmosis Antiscalant	26	mg/L
PermaTreat™ PC-191	Reverse Osmosis Antiscalant	15	mg/L
PermaTreat™ PC-191T	Reverse Osmosis Antiscalant	15	mg/L
Miscellaneous Water Supply Products			
NALCO® PC-2040	Distillation Antiscalant Reverse Osmosis Antiscalant	20	mg/L
NALCO® PC-2040T	Distillation Antiscalant Reverse Osmosis Antiscalant	20	mg/L
Miscellaneous Water Supply Products [1]			
PermaClean™ PC-11	Reverse Osmosis Membrane Biocide	NA	
Poly (Diallyldimethylammonium Chloride) (pDADMAC)			
Cat-Floc 8103 Plus	Coagulation & Flocculation	57	mg/L
Cat-Floc 8799 Plus	Coagulation & Flocculation	25	mg/L
PermaFloc PC-306	Coagulation & Flocculation	57	mg/L

[1] Certified for use as an off-line membrane cleaner. When used as an off-line membrane cleaner, this product is designed to be flushed out prior to using the system for drinking water. Follow manufacturer's use instructions.

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Facility: #1130 Spain

Chemical/ Trade Designation	Function	Max Use	
Blended Phosphates			
CL-50	Corrosion & Scale Control	28	mg/L
NALCO® WT-500	Corrosion & Scale Control	28	mg/L
Miscellaneous Treatment Chemical			
PermaTreat™ PC-1020T	Reverse Osmosis Antiscalant	26	mg/L
PermaTreat™ PC-1521T	Reverse Osmosis Antiscalant	8	mg/L
PermaTreat™ PC-191	Reverse Osmosis Antiscalant	15	mg/L
PermaTreat™ PC-191T	Reverse Osmosis Antiscalant	15	mg/L
PermaTreat™ PC-391T	Reverse Osmosis Antiscalant	15	mg/L
PermaTreat™ PC-510T	Reverse Osmosis Antiscalant	10	mg/L
Miscellaneous Water Supply Products			
PermaTreat™ PC-504T	Reverse Osmosis Antiscalant	15	mg/L
Miscellaneous Water Supply Products			
PermaClean™ PC-11 [1]	Reverse Osmosis Membrane Biocide	NA	
PermaTreat™ PC-1638T	Reverse Osmosis Antiscalant	15	mg/L

[1] Certified for use as an off-line membrane cleaner. When used as an off-line membrane cleaner, this product is designed to be flushed out prior to using the system for drinking water. Follow manufacturer's use instructions.

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Facility: #1140 United Kingdom

Chemical/ Trade Designation	Function	Max Use	
Blended Corrosion Inhibitor			
PermaGuard™ PC-900 Corrosion Inhibitor	Corrosion & Scale Control	60	mg/L
Blended Phosphates			
CL-50	Corrosion & Scale Control	28	mg/L
NALCO® WT-500	Corrosion & Scale Control	28	mg/L
Miscellaneous Water Supply Products [1]			
OsmoTreat OSM711	Membrane Cleaner	NA	
OsmoTreat OSM724	Membrane Cleaner Reverse Osmosis Antiscalant	NA	
PermaClean PC-33	Membrane Cleaner	NA	
PermaClean PC-67	Membrane Cleaner Reverse Osmosis Antiscalant	NA	
PermaClean PC-77	Membrane Cleaner	NA	

[1] These products are designed to be used off-line and shall be flushed and drained before being placed into service, following manufacturer's use instructions. The pH of the influent and effluent water shall be monitored to ensure that all traces of the product have been removed before placing into service.

Facility: #123 USA

Chemical/ Trade Designation	Function	Max Use	
Ammonium Sulfate			
NALCO® 60620 DW	Chloramination Disinfection & Oxidation	5	mg/L
Polyacrylamide [PC]			
Nalclear 8181	Coagulation & Flocculation Filtration Aid	1	mg/L
Polyaluminum Chloride [AL]			
Ultrion™ 8187	Coagulation & Flocculation	180	mg/L
Polyamines [PY]			
Nalcolyte 8105	Coagulation & Flocculation	10	mg/L
Polymer Blends [AL] [PY]			
SD46137	Coagulation & Flocculation	97	mg/L
ULTRION™ 8155	Coagulation & Flocculation	88	mg/L
ULTRION™ 8156	Coagulation & Flocculation	97	mg/L
ULTRION™ 8157	Coagulation & Flocculation	102	mg/L
Ultrion™ 8185	Coagulation & Flocculation	20	mg/L
Sodium Bisulfite [1]			
PERMACARE™ PC-7408	Dechlorination	46	mg/L

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[1] This product contains sulfite. Sulfites have been known to cause potentially lethal allergic reactions in sulfite-sensitive individuals. The maximum recommended allowable residual sulfite level in the finished drinking water is 100 ppb (0.1 mg/L).

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water shall not exceed 2 mg/L.

[PC] Polyacrylamide Products Certified by NSF International comply with 40 CFR 141.111 requirements for percent monomer and dose.

[PY] Polyamines Certified by NSF International comply with 40 CFR 141.111 requirements for percent monomer and dose.

Facility: #138 USA

Chemical/ Trade Designation	Function	Max Use	
Blended Phosphates			
C-5	Corrosion & Scale Control Sequestering	28	mg/L
CL-50	Corrosion & Scale Control Sequestering	28	mg/L
Miscellaneous Treatment Chemical [CL]			
Purate	Disinfection & Oxidation Oxidant	5	mg/L
Purate808	Disinfection & Oxidation Oxidant	5	mg/L
PurateDW	Disinfection & Oxidation Oxidant	5	mg/L
Phosphoric Acid			
3D TRASAR™ 3DT186	Corrosion & Scale Control pH Adjustment	21	mg/L
Zinc Orthophosphate [ZN]			
C-9	Corrosion & Scale Control Sequestering	15	mg/L
C-9L	Corrosion & Scale Control Sequestering	26.7	mg/L
C-9L Corrosion Inhibitor	Corrosion & Scale Control Sequestering	23	mg/L

[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations.

[ZN] Based on an evaluation of health effects data, the level of zinc in the finished drinking water shall not exceed 2.0 mg/L.

Facility: #140 USA

Chemical/ Trade Designation	Function	Max Use	
Blended Phosphates			
C-5	Corrosion & Scale Control Sequestering	28	mg/L

CL-50	Corrosion & Scale Control Sequestering	28	mg/L
Miscellaneous Corrosion Chemicals [ZN]			
Nalco 7390	Corrosion & Scale Control	33	mg/L
Miscellaneous Corrosion Chemicals			
6-R Micromet Crystals	Corrosion & Scale Control Sequestering	11	mg/L
BLR-3715	Corrosion & Scale Control Sequestering	7	mg/L
Nalco 7399	Corrosion & Scale Control	40	mg/L
Nalco 8759	Corrosion & Scale Control	40	mg/L
NALCO® SW3220	Corrosion & Scale Control	79	mg/L
Miscellaneous Treatment Chemical			
Accuvator 100A	Corrosion & Scale Control pH Adjustment	15	mg/L
NALCO® PC-1850T	Reverse Osmosis Antiscalant	7	mg/L
PC-510T	Reverse Osmosis Antiscalant	10	mg/L
PermaCare™ PC-7412	pH Adjustment	100	mg/L
PermaTreat™ PC-1020T	Reverse Osmosis Antiscalant	26	mg/L
PermaTreat™ PC-1521T	Reverse Osmosis Antiscalant	8	mg/L
PermaTreat™ PC-1638T	Reverse Osmosis Antiscalant	15	mg/L
PermaTreat™ PC-191	Reverse Osmosis Antiscalant	15	mg/L
PermaTreat™ PC-191T	Reverse Osmosis Antiscalant	15	mg/L
PermaTreat™ PC-195T	Reverse Osmosis Antiscalant	15	mg/L
PermaTreat™ PC-391T Antiscalant	Reverse Osmosis Antiscalant	15	mg/L
Miscellaneous Water Supply Products [4]			
PermaClean™ PC-11	Reverse Osmosis Membrane Biocide	NA	
Miscellaneous Water Supply Products [5]			
PermaClean™ PC-33	Membrane Cleaner	NA	
PermaClean™ PC-98	Membrane Cleaner	NA	
Miscellaneous Water Supply Products [1]			
NALCO® 2838 [2]	Other	NA	
NALCO® PC-96 [3]	Membrane Cleaner	NA	
Miscellaneous Water Supply Products [1]			
PermaClean™ PC-40	Membrane Cleaner Reverse Osmosis Antiscalant	NA	
PermaClean™ PC-56	Reverse Osmosis Membrane Biocide	NA	
PermaClean™ PC-67	Membrane Cleaner Reverse Osmosis Antiscalant	NA	
PermaClean™ PC-77	Membrane Cleaner	NA	
PermaClean™ PC-87	Reverse Osmosis Antiscalant	NA	
Miscellaneous Water Supply Products			
EL-5300	Distillation Antiscalant Reverse Osmosis Antiscalant	5	mg/L
NALCO® PC-2040	Distillation Antiscalant Reverse Osmosis Antiscalant	20	mg/L
PermaTreat™ PC-1611T	Reverse Osmosis Antiscalant	10	mg/L

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Phosphoric Acid			
3D TRASAR™ 3DT186	Corrosion & Scale Control pH Adjustment	21	mg/L
Poly (Diallyldimethylammonium Chloride) (pDADMAC) [6]			
PermaFloc® PC-306T	Coagulation & Flocculation	57	mg/L
Poly (Diallyldimethylammonium Chloride) (pDADMAC)			
Cat-Floc 71259	Coagulation & Flocculation	23	mg/L
Cat-Floc 8102 Plus	Coagulation & Flocculation	50	mg/L
Cat-Floc 8103 Plus	Coagulation & Flocculation	57	mg/L
Cat-Floc 8108 Plus	Coagulation & Flocculation	50	mg/L
Cat-Floc 8799 Plus	Coagulation & Flocculation	25	mg/L
Cat-Floc CFL	Coagulation & Flocculation	50	mg/L
Cat-Floc CL	Coagulation & Flocculation	25	mg/L
Cat-Floc DL	Coagulation & Flocculation Filtration Aid	57	mg/L
Cat-Floc LS	Coagulation & Flocculation Filtration Aid	100	mg/L
Cat-Floc T	Coagulation & Flocculation	50	mg/L
Nalco® CLSP	Coagulation & Flocculation	25	mg/L
PermaFloc™ PC-306	Coagulation & Flocculation	57	mg/L
VeliGON TL-M	Coagulation & Flocculation Molluscicide	50	mg/L
Polyacrylamide [PC]			
CORE SHELL® 71301	Coagulation & Flocculation	1	mg/L
Nalclear 7744	Coagulation & Flocculation	4	mg/L
Nalclear 7763	Coagulation & Flocculation Filtration Aid	1	mg/L
Nalclear 7766 Plus	Coagulation & Flocculation	1	mg/L
Nalclear 7768	Coagulation & Flocculation	1	mg/L
OPTIMER™ 7193 PLUS	Coagulation & Flocculation	1	mg/L
Pol-E-Z 2706	Coagulation & Flocculation	3.5	mg/L
Pol-E-Z 675	Coagulation & Flocculation	3.5	mg/L
POL-E-Z™ 692 PLUS	Coagulation & Flocculation	1	mg/L
Polyaluminum Chloride [AL]			
Aluminex-1	Coagulation & Flocculation Filtration Aid	250	mg/L
Nalco 8158	Coagulation & Flocculation Filtration Aid	250	mg/L
Ultrion™ 8187	Coagulation & Flocculation	180	mg/L
Polyamines [PY]			
Nalcolyte 8100	Coagulation & Flocculation	10	mg/L
Nalcolyte™ 8105	Coagulation & Flocculation	10	mg/L
Polymer Blends [AL] [PY]			
71254	Coagulation & Flocculation	176	mg/L
71950	Coagulation & Flocculation	176	mg/L
Cat-Floc 2953	Coagulation & Flocculation	189	mg/L
Cat-Floc 4954	Coagulation & Flocculation	100	mg/L
Cat-Floc 71264	Coagulation & Flocculation	111	mg/L
Cat-Floc KL-10	Coagulation & Flocculation	125	mg/L

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Ferralyte 8130	Coagulation & Flocculation	150	mg/L
PermaFloc™ PC-603	Coagulation & Flocculation	150	mg/L
Ultrion™ 8185	Coagulation & Flocculation	20	mg/L
Ultrion™ 8186	Coagulation & Flocculation	100	mg/L
Sodium Bisulfite [7]			
PERMACARE™ PC-7408	Dechlorination	46	mg/L
Sodium Hydroxide			
PermaCare™ PC-7409	pH Adjustment	100	mg/L
Tetrapotassium Pyrophosphate			
Nalco 2574	Corrosion & Scale Control Sequestering	29	mg/L
Nalco 7396	Corrosion & Scale Control Sequestering	29	mg/L
Zinc Chloride [ZN]			
Nalco 7384	Corrosion & Scale Control	6	mg/L
Zinc Orthophosphate [ZN]			
C-9	Corrosion & Scale Control Sequestering	15	mg/L
C-9L Corrosion Inhibitor	Corrosion & Scale Control Sequestering	26	mg/L
MSW-109	Corrosion & Scale Control Sequestering	15	mg/L

[1] These products are designed to be used off-line and flushed out prior to using the system for drinking water, following manufacturer's use instructions.

[2] This product is to be used for the long term storage of ultrafiltration membranes. Following storage the solution should be drained from the membrane and flushed according to manufacturers use instructions. A flush volume of 100L/M2 should be applied for 125 minutes or a flush volume of 20L/M2 should be applied for 140 minutes.

[3] The pH of the influent and effluent water should be monitored to ensure that all traces of the product have been removed before placing into service.

[4] Certified for use as an off-line membrane cleaner. When used as an off-line membrane cleaner, this product is designed to be flushed out prior to using the system for drinking water. Follow manufacturer's use instructions.

[5] These products are designed to be used off-line and flushed out prior to using the system for drinking water. The pH of the influent and effluent water should be monitored to ensure that all traces of the product have been removed before placing into service.

[6] This product is designed to be used upstream of a reverse osmosis system.

[7] This product contains sulfite. Sulfites have been known to cause potentially lethal allergic reactions in sulfite-sensitive individuals. The maximum recommended allowable residual sulfite level in the finished drinking water is 100 ppb (0.1 mg/L).

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water shall not exceed 2 mg/L.

[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations.

[PC] Polyacrylamide Products Certified by NSF International comply with 40 CFR 141.111 requirements for percent monomer and dose.

[PY] Polyamines Certified by NSF International comply with 40 CFR 141.111 requirements for percent monomer and dose.

[ZN] Based on an evaluation of health effects data, the level of zinc in the finished drinking water shall not exceed 2.0 mg/L.

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Facility: #150 Canada

Chemical/ Trade Designation	Function	Max Use	
Ferric Sulfate			
Ferralyte 8131	Coagulation & Flocculation	300	mg/L
Miscellaneous Chemical Products			
Nalco 2490	Coagulation & Flocculation Filtration Aid	5	mg/L
Miscellaneous Water Supply Products [1]			
PermaClean™ PC-87	Reverse Osmosis Antiscalant	NA	
Phosphoric Acid			
3D TRASAR™ 3DT186	Corrosion & Scale Control pH Adjustment	21	mg/L
Polyacrylamide [PC]			
Nalclear 7763	Coagulation & Flocculation	1	mg/L
Nalclear 7766 Plus	Coagulation & Flocculation	1	mg/L
Nalclear 7768	Coagulation & Flocculation	1	mg/L
Nalclear 8170 PULV	Coagulation & Flocculation	1	mg/L
Nalclear 8173 PULV	Coagulation & Flocculation	1	mg/L
Nalclear 8181	Coagulation & Flocculation Filtration Aid	1	mg/L
Nalclear 8182	Coagulation & Flocculation	.9	mg/L
OPTIMER™ 7193 PLUS	Coagulation & Flocculation	1	mg/L
Polyaluminum Chloride [AL]			
Aluminex-1	Coagulation & Flocculation Filtration Aid	250	mg/L
Nalco 8158	Coagulation & Flocculation Filtration Aid	250	mg/L
Polyamines [PY]			
Nalcolyte 8100	Coagulation & Flocculation	20	mg/L
Nalcolyte 8105	Coagulation & Flocculation	20	mg/L
Polymer Blends [AL] [PY]			
Aluminex-2	Coagulation & Flocculation	167	mg/L
Aluminex-4	Coagulation & Flocculation Filtration Aid	150	mg/L
ALUMINEX® OS8	Coagulation & Flocculation	125	mg/L
ALUMINEX® OSX	Coagulation & Flocculation	125	mg/L
Ferralyte 8130	Coagulation & Flocculation	150	mg/L
PermaFloc™ PC-603	Coagulation & Flocculation	150	mg/L
Ultrion™ 8185	Coagulation & Flocculation	20	mg/L
Ultrion™ 8186	Coagulation & Flocculation	100	mg/L
Sodium Aluminate [AL]			
Nalco 2	Coagulation & Flocculation	100	mg/L
Nalco 8750	Coagulation & Flocculation	100	mg/L
Sodium Chlorite [CL]			

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201A	Disinfection & Oxidation	22	mg/L
HYG-25	Disinfection & Oxidation	22	mg/L
Sodium Silicate			
Nalco 2513	Corrosion & Scale Control	25	mg/L
Zinc Orthophosphate [ZN]			
C-9	Corrosion & Scale Control Sequestering	15	mg/L
C-9L	Corrosion & Scale Control Sequestering	26.7	mg/L
C-9L Corrosion Inhibitor	Corrosion & Scale Control Sequestering	23	mg/L
SD46126	Corrosion & Scale Control Sequestering	23	mg/L

[1] These products are designed to be used off-line and flushed out prior to using the system for drinking water, following manufacturer's use instructions.

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water shall not exceed 2 mg/L.

[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations.

[PC] Polyacrylamide Products Certified by NSF International comply with 40 CFR 141.111 requirements for percent monomer and dose.

[PY] Polyamines Certified by NSF International comply with 40 CFR 141.111 requirements for percent monomer and dose.

[WL] These products are designed to be flushed out prior to using the system for drinking water. The well shall be properly flushed and drained before being placed in service.

[ZN] Based on an evaluation of health effects data, the level of zinc in the finished drinking water shall not exceed 2.0 mg/L.

Facility: #176 Canada

Chemical/ Trade Designation	Function	Max Use	
Polyaluminum Chloride [AL]			
Nalco CGR720	Coagulation & Flocculation	200	mg/L
Polyamines [PY]			
NALCOLYTE™ 8105	Coagulation & Flocculation	20	mg/L
Sodium Chlorite [CL]			
HYG-25	Disinfection & Oxidation	22	mg/L

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water shall not exceed 2 mg/L.

[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations.

[PY] Polyamines Certified by NSF International comply with 40 CFR 141.111 requirements for percent monomer and dose.

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Facility: #2120 Brazil

Chemical/ Trade Designation	Function	Max Use	

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Calcium Hypochlorite [CL]			
ECLIBR43361	Bactericide Disinfection & Oxidation	15	mg/L
ELGICIDE BIO-C	Bactericide Disinfection & Oxidation	15	mg/L
Miscellaneous Corrosion Chemicals [ZN]			
Nalco® 7390	Corrosion & Scale Control	33	mg/L
Miscellaneous Treatment Chemical			
PermaTreat™ PC-191	Reverse Osmosis Antiscalant	15	mg/L
PermaTreat™ PC-191T	Reverse Osmosis Antiscalant	15	mg/L
PermaTreat™ PC-391T Antiscalant	Reverse Osmosis Antiscalant	15	mg/L
Miscellaneous Water Supply Products [3]			
OsmoTreat™ OSM742	Reverse Osmosis Antiscalant	NA	
PermaClean™ PC-11	Reverse Osmosis Membrane Biocide	NA	
PermaClean™ PC-87	Reverse Osmosis Antiscalant	NA	
Miscellaneous Water Supply Products [1] [2]			
NALCO® PC-96	Membrane Cleaner	NA	
PermaClean™ PC-33	Membrane Cleaner	NA	
Miscellaneous Water Supply Products [1]			
PermaClean™ PC-67	Membrane Cleaner Reverse Osmosis Antiscalant	NA	
PermaClean™ PC-77	Membrane Cleaner	NA	
Polyacrylamide [BR] [PC]			
NALCLEAR™ 8181	Coagulation & Flocculation Filtration Aid	1	mg/L

[1] This product is designed to be used off-line and flushed out prior to using the system for drinking water.

[2] The pH of the influent and effluent water shall be monitored to ensure that all traces of the product have been removed before placing into service.

[3] These products are designed to be used off-line and flushed out prior to using the system for drinking water, following the manufacturer's use instructions.

[BR] This product meets the requirements of the Brazil ABNT NBR 15784 standard for drinking water treatment chemicals.

[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations.

[PC] Polyacrylamide Products Certified by NSF International comply with 40 CFR 141.111 requirements for percent monomer and dose.

[ZN] Based on an evaluation of health effects data, the level of zinc in the finished drinking water shall not exceed 2.0 mg/L.

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Facility: #2130 Chile

Chemical/ Trade Designation	Function	Max Use	
Aluminum Hydroxychloride [AL]			
Nalco® 47511	Coagulation & Flocculation Filtration Aid	250	mg/L

Note: Additions shall not be made to this document without prior evaluation and acceptance by NSF International.

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[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water shall not exceed 2 mg/L.

Facility: #2150 Mexico

Chemical/ Trade Designation	Function	Max Use	
Miscellaneous Treatment Chemical			
PermaTreat™ PC-191T	Reverse Osmosis Antiscalant	15	mg/L
Miscellaneous Water Supply Products			
NALCO® PC-2040T	Distillation Antiscalant	20	mg/L
	Reverse Osmosis Antiscalant		
PERMACLEAN® PC-11 [1]	Reverse Osmosis Membrane Biocide	NA	
Polyaluminum Chloride [AL]			
ULTRION® 8187	Coagulation & Flocculation	180	mg/L

[1] Certified for use as an off-line membrane cleaner. When used as an off-line membrane cleaner, this product is designed to be flushed out prior to using the system for drinking water. Follow manufacturer's use instructions.

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water shall not exceed 2 mg/L.

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Facility: #3103 Cheltenham

Chemical/ Trade Designation	Function	Max Use	
Aluminum Chlorohydrate [AL]			
Ultrion™ 8187	Coagulation & Flocculation	180	mg/L
Miscellaneous Treatment Chemical			
PermaTreat™ PC-1020T	Reverse Osmosis Antiscalant	26	mg/L
Polyaluminum Chloride [AL]			
Ultrion™ 8187	Coagulation & Flocculation	180	mg/L
Sodium Chlorite [CL]			
HYG-25	Disinfection & Oxidation	22	mg/L

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water shall not exceed 2 mg/L.

[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations.

Facility: #3104 Darra

Chemical/ Trade Designation	Function	Max Use	
Aluminum Chlorohydrate [AL]			
Ultrion™ 8187	Coagulation & Flocculation	180	mg/L
Miscellaneous Treatment Chemical			
PermaTreat™ PC-1020T	Reverse Osmosis Antiscalant	26	mg/L

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PermaTreat™ PC-191T	Reverse Osmosis Antiscalant	15	mg/L
PermaTreat™ PC-510T	Reverse Osmosis Antiscalant	10	mg/L
PermaTreat™ PC-691T	Reverse Osmosis Antiscalant	30	mg/L
POSM35T	Reverse Osmosis Antiscalant	15	mg/L
Miscellaneous Water Supply Products [1]			
PermaClean™ PC-11	Reverse Osmosis Membrane Biocide	NA	
Poly (Diallyldimethylammonium Chloride) (pDADMAC)			
Cat-Floc 8103 Plus	Coagulation & Flocculation	57	mg/L
NALCO® 3265	Coagulation & Flocculation	40	mg/L
NALCO® 9597	Coagulation & Flocculation	24	mg/L
PermaFloc™ PC-306	Coagulation & Flocculation	57	mg/L
Polyaluminum Chloride [AL]			
Ultrion™ 8187	Coagulation & Flocculation	180	mg/L
Polymer Blends [AL]			
Ultrion™ 44560 [PY]	Coagulation & Flocculation	40	mg/L
Ultrion™ 44697	Coagulation & Flocculation	84	mg/L
Sodium Chlorite [CL]			
HYG-25	Disinfection & Oxidation	22	mg/L

[1] This product is designed to be used off-line and flushed out prior to using the system for drinking water, following manufacturer's use instructions.

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water shall not exceed 2 mg/L.

[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations.

[PY] Polyamines Certified by NSF International comply with 40 CFR 141.111 requirements for percent monomer and dose.

Facility: #3125 Australia

Chemical/ Trade Designation	Function	Max Use	
Miscellaneous Treatment Chemical			
PC-1020T	Reverse Osmosis Antiscalant	26	mg/L
PermaCare™ POSM35T	Reverse Osmosis Antiscalant	15	mg/L
PermaTreat™ PC-1020T	Reverse Osmosis Antiscalant	26	mg/L
PermaTreat™ PC-191T	Reverse Osmosis Antiscalant	15	mg/L
Miscellaneous Water Supply Products			
PermaCare™ PC-691T	Reverse Osmosis Antiscalant	30	mg/L
PermaCare™ POSM352T	Reverse Osmosis Antiscalant	15	mg/L
PermaTreat™ PC-391T	Reverse Osmosis Antiscalant	15	mg/L
PermaTreat™ PC-510T	Reverse Osmosis Antiscalant	10	mg/L
Zinc Chloride [ZN]			
Nalco 7384	Corrosion & Scale Control	6	mg/L
Tetrapotassium Pyrophosphate			
Nalco 7396	Corrosion & Scale Control Sequestering	29	mg/L

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www.nsf.org

[1] These products are designed to be used off-line and flushed out prior to using the system for drinking water, following manufacturer's use instructions.

[2] The pH of the influent and effluent water should be monitored to ensure that all traces of the product have been removed before placing into service.

[ZN] Based on an evaluation of health effects data, the level of zinc in the finished drinking water shall not exceed 2.0 mg/L.

NOTE: Only products bearing the NSF Mark are considered Certified.

Facility: #4105 Korea, Republic of

Chemical/ Trade Designation	Function	Max Use	
Blended Phosphates			
CL-50	Corrosion & Scale Control	30	mg/L
SD46086	Corrosion & Scale Control	30	mg/L
Miscellaneous Corrosion Chemicals			
NALCO® 7399	Corrosion & Scale Control	40	mg/L
Miscellaneous Treatment Chemical			
PERMATREAT® PC-191T	Reverse Osmosis Antiscalant	15	mg/L
PermaTreat™ PC-510T	Reverse Osmosis Antiscalant	10	mg/L
Miscellaneous Water Supply Products [1]			
NALCO® PC-96 [2]	Membrane Cleaner	NA	
PermaClean™ PC-11	Reverse Osmosis Membrane Biocide	NA	
PermaClean™ PC-77 [2]	Membrane Cleaner	NA	

[1] This product is designed to be used off-line and flushed out prior to using the system for drinking water, following manufacturer's use instructions.

[2] The pH of the influent and effluent water shall be monitored to ensure that all traces of the product have been removed before placing into service.

Facility: #4110 India

Chemical/ Trade Designation	Function	Max Use	
Aluminum Chlorohydrate [AL]			
ULTRION™ 8187	Coagulation & Flocculation	180	mg/L
Miscellaneous Treatment Chemical			
PermaTreat™ PC-1020T	Reverse Osmosis Antiscalant	26	mg/L
PermaTreat™ PC-191	Reverse Osmosis Antiscalant	15	mg/L
PermaTreat™ PC-191T	Reverse Osmosis Antiscalant	15	mg/L
PermaTreat™ PC-391T	Reverse Osmosis Antiscalant	15	mg/L
Miscellaneous Water Supply Products			
NALCO® PC-2040	Distillation Antiscalant Reverse Osmosis Antiscalant	20	mg/L
PermaTreat™ PC-510T	Reverse Osmosis Antiscalant	10	mg/L
Miscellaneous Water Supply Products [1]			
PermaClean™ PC-67	Membrane Cleaner Reverse Osmosis Antiscalant	NA	
Miscellaneous Water Supply Products [1] [2]			

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PermaClean™ PC-33	Membrane Cleaner Reverse Osmosis Antiscalant	NA	
PermaClean™ PC-40	Membrane Cleaner Reverse Osmosis Antiscalant	NA	
PermaClean™ PC-77	Membrane Cleaner Reverse Osmosis Antiscalant	NA	
PermaClean™ PC-98	Membrane Cleaner	NA	
Miscellaneous Water Supply Products [3]			
PermaClean™ PC-11	Reverse Osmosis Membrane Biocide	NA	
Polyaluminum Chloride [AL]			
ULTRION™ 8187	Coagulation & Flocculation	180	mg/L
Polyamines [PY]			
NALCOLYTE™ 8100	Coagulation & Flocculation	20	mg/L
NALCOLYTE™ 8105	Coagulation & Flocculation	20	mg/L
Polymer Blends [AL] [PY]			
ULTRION™ 8185	Coagulation & Flocculation	20	mg/L
Poly (Diallyldimethylammonium Chloride) (pDADMAC)			
Cat-Floc 8102 Plus	Coagulation & Flocculation	50	mg/L
Cat-Floc T	Coagulation & Flocculation	50	mg/L
Calcium Hypochlorite [CL]			
Nalco 2591	Disinfection & Oxidation	15	mg/L

[1] These products are designed to be used off-line and flushed out prior to using the system for drinking water, following manufacturer's use instructions.

[2] The pH of the influent and effluent water shall be monitored to ensure that all traces of the product have been removed before placing into service.

[3] Certified for use as an off-line membrane cleaner. When used as an off-line membrane cleaner, this product is designed to be flushed out prior to using the system for drinking water. Follow manufacturer's use instructions.

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water shall not exceed 2 mg/L.

[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations.

[PY] Polyamines Certified by NSF International comply with 40 CFR 141.111 requirements for percent monomer and dose.

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Facility: #4111 India

Chemical/ Trade Designation	Function	Max Use	
Aluminum Chlorohydrate [AL]			
Ultrion 8187	Coagulation & Flocculation	180	mg/L
Miscellaneous Treatment Chemical			
Permatreat® PC-191T	Reverse Osmosis Antiscalant	15	mg/L
Permatreat® PC-391T	Reverse Osmosis Antiscalant	15	mg/L
Miscellaneous Water Supply Products			
PermaClean™ PC-98 [1] [2]	Membrane Cleaner	NA	
PermaTreat PC-504T	Reverse Osmosis Antiscalant	15	mg/L

Note: Additions shall not be made to this document without prior evaluation and acceptance by NSF International.

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PermaTreat PC-510T	Reverse Osmosis Antiscalant	10	mg/L
Polyaluminum Chloride [AL]			
Ultrion 8187	Coagulation & Flocculation	180	mg/L
Polymer Blends			
FERRALYTE™ 8130	Coagulation & Flocculation	150	mg/L

[1] This product is designed to be used off-line and flushed out prior to using the system for drinking water, following the manufacturer's use instructions.

[2] This pH of the influent and effluent water should be monitored to ensure that all traces of the product have been removed before placing into service.

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water shall not exceed 2 mg/L.

Facility: #4115 Saudi Arabia

Chemical/ Trade Designation	Function	Max Use	
Blended Phosphates			
CL-50	Corrosion & Scale Control Sequestering	28	mg/L
Miscellaneous Treatment Chemical			
PermaTreat® PC-510T	Reverse Osmosis Antiscalant	10	mg/L
PermaTreat™ PC-1020T	Reverse Osmosis Antiscalant	26	mg/L
PermaTreat™ PC-1638T	Reverse Osmosis Antiscalant	15	mg/L
PermaTreat™ PC-191	Reverse Osmosis Antiscalant	15	mg/L
PermaTreat™ PC-191T	Reverse Osmosis Antiscalant	15	mg/L
PermaTreat™ PC-504T	Reverse Osmosis Antiscalant	15	mg/L
Miscellaneous Water Supply Products			
PermaTreat™ PC-1611T	Reverse Osmosis Antiscalant	10	mg/L
Miscellaneous Water Supply Products [1] [2]			
PermaClean™ PC-33	Membrane Cleaner	NA	

[1] These products are designed to be used off-line and flushed out prior to using the system for drinking water, following manufacturer's use instructions.

[2] The pH of the influent and effluent water shuld be monitored to ensure that all traces of the product have been removed before placing into service.

Facility: #4120 Indonesia

Chemical/ Trade Designation	Function	Max Use	
Aluminum Chlorohydrate [AL]			
Ultrion™ 8187	Coagulation & Flocculation	100	mg/L
Miscellaneous Treatment Chemical			
PermaTreat™ PC-1020T	Reverse Osmosis Antiscalant	26	mg/L
PermaTreat™ PC-191T	Reverse Osmosis Antiscalant	15	mg/L
Miscellaneous Water Supply Products [1]			
PermaClean® PC-11	Reverse Osmosis Membrane Biocide	NA	
PermaClean™ PC-77 [2]	Membrane Cleaner	NA	
PermaClean™ PC-98 [2]	Membrane Cleaner	NA	

Note: Additions shall not be made to this document without prior evaluation and acceptance by NSF International.

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Polyaluminum Chloride [AL]			
3276PLUS	Coagulation & Flocculation	80	mg/L

[1] This product is designed to be used off-line and flushed out prior to using the system for drinking water, following the manufacturer's use instructions.

[2] The pH of the influent and effluent water should be monitored to ensure that all traces of the product have been removed before placing into service.

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water shall not exceed 2 mg/L.

Facility: #4140 Singapore

Chemical/ Trade Designation	Function	Max Use	
Calcium Hypochlorite [CL]			
Nalco 2591	Disinfection & Oxidation	15	mg/L
Miscellaneous Treatment Chemical			
Permatreat PC-191	Reverse Osmosis Antiscalant	15	mg/L
PermaTreat™ PC-191T	Reverse Osmosis Antiscalant	15	mg/L
Miscellaneous Water Supply Products			
PermaTreat™ PC-1638T	Reverse Osmosis Antiscalant	15	mg/L
Polyacrylamide [PC]			
Nalclear 8181	Coagulation & Flocculation Filtration Aid	1	mg/L

[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations.

[PC] Polyacrylamide Products Certified by NSF International comply with 40 CFR 141.111 requirements for percent monomer and dose.

Facility: #4150 Taiwan

Chemical/ Trade Designation	Function	Max Use	
Miscellaneous Treatment Chemical			
OsmoTreat™ OSM72	Reverse Osmosis Antiscalant	10	mg/L
PermaTreat™ PC-1020T	Reverse Osmosis Antiscalant	26	mg/L
PermaTreat™ PC-191T	Reverse Osmosis Antiscalant	15	mg/L
PermaTreat™ PC-510	Reverse Osmosis Antiscalant	10	mg/L
Permatreat™ PC-510T	Reverse Osmosis Antiscalant	10	mg/L
SD46155	Reverse Osmosis Antiscalant	10	mg/L
Miscellaneous Water Supply Products			
OsmoTreat™ OSM352	Reverse Osmosis Antiscalant	15	mg/L
OsmoTreat™ OSM711	Membrane Cleaner	NA	
OsmoTreat™ OSM731 [1]	Membrane Cleaner	NA	
PermaClean™ PC-11 [3]	Reverse Osmosis Membrane Biocide	NA	
PermaClean™ PC-33 [1] [2]	Membrane Cleaner	NA	
PermaClean™ PC-77 [1]	Membrane Cleaner	NA	
PermaTreat™ PC-100	Reverse Osmosis Antiscalant	5	mg/L
PermaTreat™ PC-391	Reverse Osmosis Antiscalant	15	mg/L

Note: Additions shall not be made to this document without prior evaluation and acceptance by NSF International.

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PermaTreat™ PC-391T	Reverse Osmosis Antiscalant	15	mg/L

[1] These products are designed to be used off-line. These products are designed to be flushed out prior to using the system for drinking water, following the manufacturer's use instructions.

[2] The pH of the influent and effluent water shall be monitored to ensure that all traces of the product have been removed before placing into service.

[3] Certified for use as an off-line membrane cleaner. When used as an off-line membrane cleaner, this product is designed to be flushed out prior to using the system for drinking water. Follow manufacturer's use instructions.

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Facility: #609 USA

Chemical/ Trade Designation	Function	Max Use	
Polyacrylamide [PC]			
Nalclear® 8173 PULV	Coagulation & Flocculation	1	mg/L
Nalco® 9970	Coagulation & Flocculation	1	mg/L
OPTIMER™ 83949	Coagulation & Flocculation	1	mg/L

[PC] Polyacrylamide Products Certified by NSF International comply with 40 CFR 141.111 requirements for percent monomer and dose.

Facility: #702 USA

Chemical/ Trade Designation	Function	Max Use	
Miscellaneous Water Supply Products			
PermaClean™ PC-90	Membrane Cleaner	NA	
PermaClean™ PC-97	Membrane Cleaner	NA	

Facility: Dubai, United Arab Emirates

Chemical/ Trade Designation	Function	Max Use	
Blended Corrosion Inhibitor			
PermaGuard™ PC-900 Corrosion Inhibitor	Corrosion & Scale Control	60	mg/L
Miscellaneous Treatment Chemical			
PermaTreat™ PC-1020T	Reverse Osmosis Antiscalant	26	mg/L
PermaTreat™ PC-1638T	Reverse Osmosis Antiscalant	15	mg/L
PermaTreat™ PC-191	Reverse Osmosis Antiscalant	15	mg/L
PermaTreat™ PC-191T	Reverse Osmosis Antiscalant	15	mg/L

Facility: Hamilton, New Zealand

Chemical/ Trade Designation	Function	Max Use	
Sodium Chlorite [CL]			
Nalco PC-1	Disinfection & Oxidation	5	mg/L

[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations.

Note: Additions shall not be made to this document without prior evaluation and acceptance by NSF International.

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Facility: Rayong, Thailand

Chemical/ Trade Designation	Function	Max Use	
Miscellaneous Treatment Chemical			
PermaTreat™ PC-191T	Reverse Osmosis Antiscalant	15	mg/L
Permatreat™ PC-510T	Reverse Osmosis Antiscalant	10	mg/L
Miscellaneous Water Supply Products			
PermaClean™ PC-11 [1]	Reverse Osmosis Membrane Biocide	NA	
PermaClean™ PC-33 [2]	Reverse Osmosis Antiscalant	NA	
PermaClean™ PC-67 [3]	Membrane Cleaner Reverse Osmosis Antiscalant	NA	
PermaClean™ PC-77 [3]	Membrane Cleaner	NA	
PermaClean™ PC-98 [2]	Membrane Cleaner	NA	
Poly (Diallyldimethylammonium Chloride) (pDADMAC)			
Cat-Floc 8102 Plus	Coagulation & Flocculation	50	mg/L
Cat-Floc 8103 Plus	Coagulation & Flocculation	57	mg/L
Polyacrylamide [PC]			
Nalclear 8170 PULV	Coagulation & Flocculation	1	mg/L
Nalclear 8173 PULV	Coagulation & Flocculation	1	mg/L
Nalclear 8181	Coagulation & Flocculation	1	mg/L
Polyaluminum Chloride [AL]			
Ultrion™ 8187	Coagulation & Flocculation	180	mg/L
Polyamines [PY]			
Nalcolyte™ 8100	Coagulation & Flocculation	10	mg/L
Nalcolyte™ 8105	Coagulation & Flocculation	10	mg/L
Polymer Blends [AL] [PY]			
FERRALYTE® 8130	Coagulation & Flocculation	150	mg/L
Ultrion™ 8185	Coagulation & Flocculation	20	mg/L
Tetrapotassium Pyrophosphate			
Nalco 7396	Corrosion & Scale Control Sequestering	29	mg/L
Zinc Chloride [ZN]			
Nalco 7384	Corrosion & Scale Control	6	mg/L

[1] Certified for use as an off-line membrane cleaner. When used as an off-line membrane cleaner, this product is designed to be flushed out prior to using the system for drinking water. Follow manufacturer's use instructions.

[2] These products are designed to be used off-line and flushed out prior to using the system for drinking water. The pH of the influent and effluent water should be monitored to ensure that all traces of the product have been removed before placing into service.

[3] These products are designed to be used off-line and flushed out prior to using the system for drinking water, following manufacturer's use instructions.

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water shall not exceed 2 mg/L.

[PC] Polyacrylamide Products Certified by NSF International comply with 40 CFR 141.111 requirements for percent monomer and dose.

[PY] Polyamines Certified by NSF International comply with 40 CFR 141.111 requirements for percent monomer and dose.

[PY] Polyamines Certified by NSF International comply with 40 CFR 141.111 requirements for

Note: Additions shall not be made to this document without prior evaluation and acceptance by NSF International.

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percent monomer and dose.

[ZN] Based on an evaluation of health effects data, the level of zinc in the finished drinking water shall not exceed 2.0 mg/L.

Facility: Soledad, Colombia

Chemical/ Trade Designation	Function	Max Use	
Polyamines [PY]			
Nalcolyte™ 8105	Coagulation & Flocculation	10	mg/L
Polymer Blends [AL]			
NALCO® 8157 PLUS	Coagulation & Flocculation	102	mg/L

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water shall not exceed 2 mg/L.

[PY] Polyamines Certified by NSF International comply with 40 CFR 141.111 requirements for percent monomer and dose.

Facility: Scott, LA

Chemical/ Trade Designation	Function	Max Use	
Miscellaneous Water Supply Products			
PermaClean™ PC-11 [1]	Reverse Osmosis Membrane Biocide	NA	
PermaClean™ PC-56 [1]	Reverse Osmosis Membrane Biocide	NA	
PermaTreat PC-504T	Reverse Osmosis Antiscalant	15	mg/L
Sodium Bisulfite [2]			
Nalco 7408	Dechlorination	46	mg/L

[1] This product is designed to be used off-line and flushed out prior to using the system for drinking water, following manufacturer's use instructions.

[2] This product contains sulfite. Sulfites have been known to cause potentially lethal allergic reactions in sulfite-senstive individuals. The maximum recommended allowable residual sulfite level in the finished drinking water is 100 ppb (0.1mg/L).

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

May 24, 2017

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

RACHEL STOCKMAN
NALCO COMPANY, LLC
A SUBSIDIARY OF ECOLAB, INC.
1601 WEST DIEHL ROAD
NAPERVILLE, IL 60563-1198

PRODUCT NAME: NALCO 60620
COMPANY NAME: NALCO COMPANY, LLC
OPP IDENTIFICATION NUMBER:
EPA FILE SYMBOL: 1706-240
EPA RECEIPT DATE: 05/19/17

SUBJECT: RECEIPT OF AMENDMENT

DEAR REGISTRANT:

The Office of Pesticide Programs has received your application for an amendment and it has passed an administrative screen for completeness.

During the initial screen we determined that the application appears to qualify for fast track review. The package will now be forwarded to the Product Manager for review to determine its acceptability for fast track status.

If you have any questions, please contact Antimicrobials Division, Risk Management Team 31, at (703) 347-8028.

Sincerely,

Front End Processing Staff
Information Services Branch
Information Technology & Resources Management Division

NALCO Water
An Ecolab Company

Rachel C. Stockman
Regulatory Specialist I

1601 W. DIEHL ROAD
NAPERVILLE, IL 60563-1198
Rachel.Stockman@ecolab.com
630 305 2963

May 19, 2017

Office of Pesticide Programs
US Environmental Protection Agency
One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202

Attention: Eric Miederhoff, Product Manager 31
Antimicrobials Division

Subject: **Label Amendment**
Product: **Nalco 60620 (EPA Reg. No. 1706-240)**

Dear Mr. Miederhoff:

Nalco Company is submitting a label amendment for **Nalco 60620 (EPA Reg. No. 1706-240)** with the following changes:

1. Addition of a non-public health use site, "source water for potable water treatment facilities," under the INDUSTRIAL WATER SYSTEMS section.
2. Addition of the NSF mark as optional marketing text.
    a. *Final approval from NSF is expected by July 2017. Nalco does not intend to use this mark on the Nalco 60620 label until final approval is received by NSF.*

In support of this amendment the following are enclosed:

1. Application Form (EPA Form 8570-1)
2. Proposed label with the changes highlighted in yellow

If you have any questions, please contact me at 630-305-2963 or via email.

Sincerely,

Rachel Stockman

Rachel Stockman

DOCUMENTUM

Please read instructions on reverse before con ing form. Form Approved MB No. 2070-0060, Approval expires 2-28-95

EPA	United States **Environmental Protection Agency** Washington, DC 20460	☐ **Registration** ☒ **Amendment** ☐ **Other**	OPP Identifier Number

Application for Pesticide – Section I

1. Company/Product Number **1706-240**	2. EPA Product Manager **Eric Miederhoff**	3. Proposed Classification ☒ None ☐ Restricted
4. Company/Product (Name) **Nalco 60620**	PM# **31**	
5. Name and Address of Applicant *(Include ZIP Code)* Nalco Company LLC 1601 West Diehl Road Naperville, IL 60563 ☐ *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. Nos. Product Names	

Section - II

☒ Amendment – Explain below.
☐ Resubmission in response to Agency letter dated _____
☐ Notification – Explain Below.
☐ Final printed labels in response to Agency letter dated:
☐ "Me Too" Application
☐ Other – Explain Below.

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

Label amendment to add:
1) a non-public health use site to the Nalco 60620 label
2) the NSF mark as optional marketing text

Section - III

1. Material This Product Will Be Packaged In:

Child-Resistant Packaging	Unit Packaging		Water Soluble Packaging		2. Type of Container
☐ Yes ☒ No	☐ Yes ☒ No		☐ Yes ☒ No		☒ Metal ☒ Plastic ☐ Glass ☐ Paper ☐ Other (Specify) _____
**** Certification must be submitted***	If "Yes" Unit Packaging wgt.	No. per Container	If "Yes" Packaging wgt.	No. per Container	

3. Location of Net Contents Information	4. Size(s) Retail Container:	5. Location of Label Directions
☐ Label ☒ Container	275 Gallon plastic tote, 400 Gallon stainless steel tote, bulk	☒ On Label ☐ On Labeling accompanying product

6. Manner in Which Label is Affixed to Product ☐ Lithograph ☒ Paper Glued ☐ Other _____ ☐ Stenciled

Section - IV

1. Contact Point *(Complete items directly below for identification of individual to be contacted, if necessary, to process this application..)*

Name	Title	Telephone No. (Include Area Code)
Rachel C. Stockman	Regulatory Specialist I	630-305-2963

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
Rachel Stockman	Regulatory Specialist I
4. Typed Name Rachel C. Stockman	5. Date May 19, 2017

DOCUMENTUM

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

July 26, 2017

Rachel Stockman
Regulatory Specialist I
Nalco Company LLC
1601 West Diehl Road
Naperville, IL 60563

Subject: Notification per PRN 98-10 – New alternate brand name
Product Name: Nalco 60620
EPA Registration Number: 1706-240
Application Date: June 6, 2017
Decision Number: 530312

Dear Ms. Stockman:

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 alternate brand name "Nalco 60620 DW" has been added to the product record.

If you have any questions, you may contact Tara Flint via email at flint.tara@epa.gov or phone at (703) 347-0398.

Sincerely,

For
Eric Miederhoff, Product Manager 31
Regulatory Management Branch 1
Antimicrobials Division (7510P)
Office of Pesticide Programs

NALCO Water
An Ecolab Company

Rachel C. Stockman
Regulatory Specialist I

1601 W. DIEHL ROAD
NAPERVILLE, IL 60563-1198
Rachel.Stockman@ecolab.com
630 305 2963

June 6, 2017

Office of Pesticide Programs
US Environmental Protection Agency
One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202

Attention: Eric Miederhoff, Product Manager 31
Antimicrobials Division

Subject: **ABN Notification**

Product: **Nalco 60620 (EPA Reg. No. 1706-240)**

Dear Mr. Miederhoff:

Nalco Company is submitting a notification to add an alternate brand name to our registration under 1706-240. The alternate brand name is **NALCO™ 60620 DW**.

In support of this notification the following are enclosed:

1. Application Form (EPA Form 8570-1)

If you have any questions, please contact me at 630-305-2963 or via email.

Sincerely,

Rachel Stockman

Rachel Stockman

Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060, Approval expires 2-28-95

EPA

United States
Environmental Protection Agency
Washington, DC 20460

☐ **Registration**
☐ **Amendment**
☒ **Other**

OPP Identifier Number

Application for Pesticide – Section I

1. Company/Product Number **1706-240**	2. EPA Product Manager **Eric Miederhoff**	3. Proposed Classification ☒ None ☐ Restricted
4. Company/Product (Name) **Nalco 60620**	PM# **31**	
5. Name and Address of Applicant *(Include ZIP Code)* Nalco Company LLC 1601 West Diehl Road Naperville, IL 60563 ☐ *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. Nos. Product Names	

Section - II

☐ Amendment – Explain below.
☐ Resubmission in response to Agency letter dated _____
☒ Notification – Explain Below.
☐ Final printed labels in response to Agency letter dated:
☐ "Me Too" Application
☐ Other – Explain Below.

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

Notification of an alternate brand name (ABN) for this registration. The ABN is NALCO™ 606020 DW.

This notification is consistent with the provisions of PR Notice 98-10 and EPA regulation at 40 CRF 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statements to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Section - III

1. Material This Product Will Be Packaged In:

Child-Resistant Packaging	Unit Packaging		Water Soluble Packaging		2. Type of Container
☐ Yes ☒ No **** Certification must be submitted***	☐ Yes ☒ No If "Yes" Unit Packaging wgt.	No. per Container	☐ Yes ☒ No If "Yes" Packaging wgt.	No. per Container	☒ Metal ☒ Plastic ☐ Glass ☐ Paper ☐ Other (Specify) _____

3. Location of Net Contents Information	4. Size(s) Retail Container:	5. Location of Label Directions
☐ Label ☒ Container	275 Gallon plastic tote, 400 Gallon stainless steel tote, bulk	☒ On Label ☐ On Labeling accompanying product

6. Manner in Which Label is Affixed to Product ☐ Lithograph ☒ Paper Glued ☐ Other _____ ☐ Stenciled

Section - IV

1. Contact Point *(Complete items directly below for identification of individual to be contacted, if necessary, to process this application..)*

Name	Title	Telephone No. (Include Area Code)
Rachel C. Stockman	Regulatory Specialist I	630-305-2963

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

2. Signature Rachel Stockman	3. Title Regulatory Specialist I	6. Date Application Received **(Stamped)**
4. Typed Name Rachel C. Stockman	5. Date June 6, 2017	

PROCESSING REQUEST

Reg. #: 1706-240 **Decision #: 525024**

Description: New basic CSF

Material Sent (see jacket):

XX New CSF(s) Dated: 12/19/2016

☐ Other:

Reviewer: Tara Flint

Division: Antimicrobials Division

Phone: 703 347 0398 **Date: 4/5/2017**

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

May 1, 2017

Rachel Stockman
Regulatory Specialist
Nalco Company LLC
1601 W Diehl Road
Naperville, IL 60563

Subject: Label Amendment – Change in directions for use and other minor label modifications
Product Name: Nalco 60620
EPA Registration Number: 1706-240
Application Date: March 9, 2017
Decision Number: 527063

Dear Ms. Stockman:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

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.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance

with FIFRA section 6. If you have any questions, please contact Tara Flint via email at flint.tara@epa.gov or Eric Miederhoff at Miederhoff.eric@epa.gov.

Sincerely,

E. Miederhoff

Eric Miederhoff
Product Manager 31
Regulatory Management Branch I
Antimicrobials Division (7510P)
Office of Pesticide Programs

Enclosure

PRECAUTIONARY STATEMENTS: HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed or absorbed through the skin. May cause irritation to the eyes and skin. Do not get in eyes, on skin, or on clothing. Use with adequate ventilation. Wear protective eyewear (goggles, face shield or safety glasses), protective clothing and protective gloves (rubber, chemical resistant) when handling. Remove contaminated clothing and wash clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic organisms. 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.

PHYSICAL AND CHEMICAL HAZARDS

Direct mixing of this product with sodium hypochlorite solutions and other strong oxidizing and alkali chemicals will release hazardous gases. Only mix with other chemicals or materials solutions following the Directions for Use of this product.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Keep container tightly closed. Store in a dry place. Leaking or damaged containers should be placed in an overpack container for disposal. Spills should be contained and cleaned using an absorbent material and disposed of in a sanitary landfill.

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.

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.

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 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.

ACCEPTED
05/01/2017
Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 1706-240

Revised 03/08/2017
EPA Reg. # 1706-240

NALCO Water
An Ecolab Company

NALCO® 60620

A MICROORGANISM CONTROL CHEMICAL

ACTIVE INGREDIENT:
Ammonium Sulfate.....20.0%
INERT INGREDIENTS:.....80.0%
TOTAL:.....100.0%

EPA Reg. No. 1706-240

EPA Est. No. 1706-AL-1 (MG)	EPA Est. No. 1706-PA-1 (EL)
EPA Est. No. 1706-CA-1 (CR)	EPA Est. No. 1706-WA-1 (VW)
EPA Est. No. 1706-IL-1 (BP)	EPA Est. No. 1706-LA-2 (PL)

Letter in () that matches first letter in batch number identifies the establishment number.

KEEP OUT OF REACH OF CHILDREN
CAUTION

FIRST AID

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 a doctor for treatment advice.
IF IN EYES: Hold eyes 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 a doctor for treatment advice.
IF INHALED: Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or a doctor for treatment advice.

NOTE: Have the product container or label with you when calling a poison control center or a doctor, or going for treatment.

SEE LEFT SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

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

Nalco Company, LLC
1601 West Diehl Road
Naperville, IL 60563-1198
EMERGENCY PHONE NO. (800) 424-9300

NET CONTENTS SHOWN ELSEWHERE ON CONTAINER
PRODUCT IS NOT REGULATED DURING TRANSPORTATION

DIRECTIONS FOR USE

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

For the control of bacteria, algae and fungi. Nalco 60620 must be used in conjunction with: 1) an EPA registered sodium hypochlorite product (12.5%) to produce monochloramine; and 2) the OxiPRO delivery system at a pH of ≥8.5 as described below. The OxiPRO delivery system can be configured for a primary or secondary dilution strategy. Your Nalco technical representative will determine which OxiPRO delivery system configuration is appropriate for treatment of your system.

Nalco 60620 and the sodium hypochlorite are mixed in a specially designed OxiPRO system that produces the monochloramine solution on site. The products are blended to achieve a molar ratio of 0.5-1.2 ammonium sulfate to 1.0 sodium hypochlorite (12.5%). The monochloramine is typically achieved by mixing 0.8 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). The OxiPRO delivery system controller ensures the automatic production of the dilute monochloramine solution, controls the optimization of the production process, and ensures adequate dosing into the water system requiring treatment. The design, treatment, installation, calibration, and operation of the feeding system in all plants is to be conducted only by authorized and trained personnel.

Use of this product for any other purpose or contrary to the instructions below, or without the supervision of authorized trained personnel is prohibited.

Note: Do not use other feeding modes to mix Nalco 60620 and the sodium hypochlorite. Non-authorized personnel are prohibited from operating or otherwise handling the feeding system or its chemical ingredients.

PULP AND PAPERMILL WATER SYSTEMS AND PRODUCTION OF FIBERGLASS

Dosage Rates: When the system is noticeably fouled, apply sufficient Nalco 60620 and sodium hypochlorite to achieve a chlorine residual in excess of the system oxidant demand. The monochloramine solution produced by the delivery system is immediately added to the influent water system and/or the process waters for which treatment is required. The monochloramine solution may be added to any point of uniform mixing. Addition may be continuous or intermittent depending on the severity of the contamination when treatment starts, and on other system operation parameters.

A. SLUG FEED METHOD
Initial Dose: When the system is noticeably fouled, add the appropriate amount of monochloramine to the system to obtain from 1 to 10 ppm total available chlorine. The monochloramine dosage is typically achieved by mixing 0.8 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Repeat until control is achieved. Badly fouled systems must be cleaned before treatment is begun.

Subsequent Dose: When microbial control is evident, add the appropriate amount of monochloramine to the system daily, or as needed to maintain control and keep the total chlorine residual at 1 to 10 ppm.

B. INTERMITTENT FEED METHOD
Initial Dose: When the system is noticeably fouled, add the appropriate amount of monochloramine to the system to obtain from 1 to 10 ppm total available chlorine. The monochloramine dosage is typically achieved by mixing 0.8 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Badly fouled systems must be cleaned before treatment is begun.

Subsequent Dose: When microbial control is evident, add the appropriate amount of monochloramine to the system to obtain a 1 – 10 ppm total chlorine residual.

C. CONTINUOUS FEED METHOD
Initial Dose: When the system is noticeably fouled, add the appropriate amount of monochloramine to the system to obtain 1 to 10 ppm total available chlorine. The monochloramine dosage is typically achieved by mixing 0.8 gallons of Nalco 60620

with 1.0 gallon of sodium hypochlorite (12.5%). Badly fouled systems must be cleaned before treatment is begun.

Subsequent Dosage: Maintain this treatment level by starting a continuous feed of monochloramine to maintain a 1 to 10 ppm total chlorine residual.

Note to reviewer: Text in brackets [ ] is considered optional text. The optional statement "Not Approved for California" may be added to other use sites as required by CDPR.

INDUSTRIAL WATER SYSTEMS:

Nalco 60620 is used for the control of algal, bacterial and fungal deposits in industrial cooling towers, recirculating cooling water systems, evaporative condensers, influent water systems, industrial fresh water systems, airwashers, seawater desalination and reverse osmosis systems [(Not Approved for California)], paint spray booth sumps, ponds used for cooling purposes, sewage and wastewater systems [(Not Approved for California)]. This product is also used for the control of algae, bacteria, fungi and [mollusks – NOT APPROVED FOR CALIFORNIA] in both seawater and freshwater influent systems.

When this product is used to treat sewage and wastewater systems, seawater, and freshwater influent systems for once-through industrial water systems [(Not Approved for California)], and seawater desalination and reverse osmosis systems, and the system water is not sent to a POTW; residual levels of monochloramine in the effluent must be monitored and neutralized using on-line monitoring and control equipment.

When this product is used to treat recirculating cooling water systems, evaporative condensers, influent water systems (not part of once-through industrial water systems), airwashers, paint spray booth sumps,-ponds used for cooling purposes; effluent detection of monochloramine should be conducted at least once per shift. If monochloramine is detected in the effluent, it can be neutralized by the addition of sodium metabisulfite until the monochloramine is no longer detected.

Dosage Rates: When noticeably fouled, apply sufficient product and sodium hypochlorite to achieve a total chlorine residual of at least 1 ppm in excess of the system oxidant demand. Once control is achieved, treatment rates can be reduced to sub-demand rates from 50% to 80% of system demand. The product may be added to the system continuously or intermittently as needed to any area of the system where uniform mixing can be obtained.

For intermittent treatment: The monochloramine dosage is typically achieved by mixing 0.8 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Apply the solution at a rate to obtain 1 to 2 ppm in excess of the system oxidant demand (maximum of 5 ppm measured) as total chlorine in the water being treated for 5 to 60 minutes every 1 to 6 hours. The frequency of feeding and the duration of treatment will depend on the severity of the problem. Badly fouled systems must be cleaned before initial treatment.

For continuous treatment: The monochloramine dosage is typically achieved by mixing 0.8 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Apply the solution at a rate to obtain 0.5 to 1 ppm in excess of the system oxidant demand (maximum of 5 ppm measured) as total chlorine in the water being treated on a continuous basis. The frequency of feeding and the duration of treatment will depend on the severity of the problem. Badly fouled systems must be cleaned before initial treatment.

[The following are optional marketing text]

CRC KOSHER 1005

OxiPRO MICROBIAL CONTROL TECHNOLOGY

PRODUCT IS NOT REGULATED DURING TRANSPORTATION

Note for future label revisions and mixing rates (4/19/2017)

The original label for this product lists mixing 0.5 gallons of Nalco product with 1 gallon of sodium hypochlorite within the Directions for Use. The current label amendment action proposes increasing this to 0.8 gallons of the Nalco product to 1 gallon of sodium hypochlorite.

Throughout the registration process of this product, there were constant references to another ammonium sulfate product registered under Buckman (Reg. No. 1448-433). The Buckman lists ammonia as its active ingredient, however there was a history of dialogue that is should have been registered with ammonium sulfate. The risk assessment team states that the Buckman product has 28% ammonium sulfate, whereas the Nalco product is 20% in the Ammonia and Ammonium Sulfate Human Health Registration Review Scoping Document from September 14, 2012. This document summarizes the AI levels and general toxicity conclusions related to the four products that were registered at the time with ammonium sulfate/ammonia. It also presents information on AI concentration and qualitatively concludes that there are no exposure risks with this AI in pulp and paper mill products due to the process in which it is used. The ammonium sulfate is mixed with sodium hypochlorite (12.5%) in a **closed** system to produce monochloramine. There is no dietary risk as any monochloramine remaining in the water system is assumed to degrade under the high temperature conditions for the paper drying process.

On the Buckman label the mixing rate is 0.5 gallons of their product to 1 gallon of sodium hypochlorite. Upon calculating for the differences in AI concentration versus mixing rate the following results:

> Nalco proposed rate: 0.8 gallons product * 0.20 (percent AI) = 0.16 concentration of AI in end use product
> Buckman current label: 0.5 gallons product * 0.28 (percent AI) = 0.14 concentration of AI in end use product

The difference between the two for the directions for use end result product is very minimal in this situation at 0.02 difference in AI concentration. This change can be considered minimal without exposure concern due to the qualitative nature of the Agency risk assessment reviews/documents for ammonium sulfate products. All risk assessments specific to the product from 2011, as well as the general Scoping Document mentioned above, all discuss the lack of exposure or risk associated with the AI due to the closed system application and processing in pulp/paper mills.

Therefore, the change in the mixing rate in the Directions for Use for the Nalco product is deemed acceptable.

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

6/29/11

MEMORANDUM

SUBJECT: Nalco Co. Proposed Registration of Nalco 60620 Slimicide Containing Ammonium Sulfate for Use in Paper and Paperboard Water Systems: Ecological and Human Health Risk Assessments.

PC Codes: Ammonium sulfate: 005601 Chloramine: NA	DP Barcode Nos.: D391302
Decision Nos.: 443828	Registration Nos.: 1706-EUN
Petition No(s).: NA	Regulatory Action: Registration of an end-use product containing a new active ingredient
Risk Assess Type: Human health and ecological	Case No.: NA
TXR No.: NA	CAS Nos.: Ammonium sulfate: 7783-20-2 chloramine: 10599-90-3
MRID Nos.: NA	40 CFR: NA

FROM: William Hazel, Ph.D., Risk Assessor
Risk Assessment and Science Support Branch
Antimicrobials Division (7510P)

THRU: Nader Elkassabany, Ph.D., Chief
Risk Assessment and Science Support Branch
Antimicrobials Division (7510P)

TO: Dennis Edwards, Chief
Regulatory Management Branch 1
Antimicrobials Division (7510P)
and
Tracy Lantz, Chemical Review Manager
Regulatory Management Branch 1
Antimicrobials Division (7510P)

Rec'd in RMC 7/19/2011

EXECUTIVE SUMMARY

Nalco Co. has requested to register Nalco 60620 (EPA Reg. No 1706-EUN) containing 20% ammonium sulfate. This product is to be mixed on site with sodium hypochlorite to form chloramine and used as a slimicide in paper and paperboard water systems at a residual chlorine level of 1-10 ppm. Treated paper and paperboard may be used for food contact.

The following conclusions have been drawn from the available information to address registration of this pending ammonium sulfate product and human health and ecological risks associated with use of this product as proposed:

- The pesticide active ingredient in this pending product is ammonium sulfate.
- Ammonium sulfate has low acute toxicity. Longer term mammalian dosing studies resulted in such low toxicity that toxicity endpoints could not be selected.
- The only potentially toxic compound resulting in the water system is chloramine. Although only limited toxicity data are available on chloramine, it is not expected to remain in the paper to migrate to food. The only residues in paper will be sulfate, nitrate, ammonium, and chloride ions which are not of toxicological concern. Therefore, no dietary (food) risks are expected to be associated with the proposed uses.
- Very low levels of chloramine and hypochlorous acid may be discharged but these would rapidly dissipate before there is the potential to contaminate drinking water. Therefore, no drinking water risks are expected from the proposed uses.
- The paper and paperboard water system use patterns have no associated residential exposure.
- Occupational risks from ammonium sulfate are not anticipated to be of concern because ammonium sulfate is of low toxicity and it is handled in a closed system. It is also anticipated that the reaction of ammonium sulfate with sodium hypochlorite will be controlled to enhance the production of monochloramine while minimizing the production of trichloramine. Little volatilization of chloramine from water systems is expected. However, it may be advisable to minimize aerosol or mist generation.
- The air sample results submitted by Nalco indicate that chloramines, which could include nitrogen trichloride, were detected at air concentrations ranging from 0.067 mg/m^3 to greater than >0.14 mg/m^3. The exact air concentration could not be determined, however, because breakthrough occurred. The identity of these chloramines is also unknown because the sampling method did not include a silica gel tube which would have screened out hypochlorite, monochloramine and dichloramine. Thus, at this time, there does not appear to be a concern for exposure of pulp and paper mill workers to nitrogen trichloride.

- The only compounds of potential ecotoxicity concern in the water system are chloramine and hypochlorous acid. Very low levels of these compounds may be discharged but these would rapidly dissipate in the lagoon well before they could enter an aquatic or terrestrial environment. Thus, no measurable risk to nontarget organisms is expected from the proposed use.
- Several label revisions are recommended for clarification.

BACKGROUND

Nalco Co. has requested to register Nalco 60620 (EPA Reg. No 1706-EUN) containing 20% ammonium sulfate. This product is proposed to be used as a slimicide in paper and paperboard water systems. This ammonium sulfate product is to be mixed in situ (on site) with a sodium hypochlorite product to produce chloramine.

This memorandum contains the human health and ecological risk assessments and serves to make recommendations to risk managers in Regulatory Management Branch 1 concerning the identity of the active ingredient in Nalco 60620 and whether there is sufficient scientific information available to permit registration of this pending product containing the new active ingredient ammonium sulfate. The following scientific memoranda formed the basis of the assessments and recommendations contained herein:

- Earl Goad. 2/17/11. Nalco 60620. EPA Reg. No. 1706-EUN. D385697. Product chemistry.
- Najm Shamim. 3/31/11. Nalco Company's Proposed Registration of Nalco 60620 Slimicide Containing Ammonium Sulfate for Use in Pulp and Paper Water Systems: Chemistry, Chemical Processes and Transformation Products. D391308.
- Steve Malish. 4/19/11. Ammonium sulfate and monochloramine. D391291. Hazard assessment.
- Timothy Dole. 6/29/11. Occupational exposure assessment for the proposed use of ammonium sulfate as Nalco 60620 in pulp and paper mill water systems. D391275.
- A. Najm Shamim. 4/27/11. Environmental Fate Assessment of Ammonium Sulfate and Chloramine. D391290.
- David Bays. 4/28/11. Ecological Risk Assessment for Nalco 60620 which is an end-use product containing ammonium sulfate. The proposed registration of this product is for use in controlling microorganisms using an in-situ generating system for use in pulp and paper mills. D391292.

PROPOSED USE

Nalco 60620 (20% ammonium sulfate) is proposed to be mixed in situ with a sodium hypochlorite product using the specially-designed OxiPRO delivery system operated only by authorized and trained personnel. The draft label for Nalco 60620 directs the use of a molar ratio of ammonium sulfate to sodium hypochlorite of 1:1 to 1.2:1. Sodium hypochlorite is the active ingredient in a number of end-use products registered for pulp and paper mill use. Treatment is proposed to be made using either the slug feed, intermittent feed, or continuous feed method to achieve and maintain a 1-10 ppm available chlorine level.

REACTIONS BETWEEN AMMONIUM SULFATE AND SODIUM HYPOCHLORITE

In aqueous solution under most conditions, hypochlorite ion (OCl^-) exists in some equilibrium or ratio with both molecular chlorine (Cl_2) and hypochlorous acid (HOCl). The ratio mainly depends on pH but temperature and the concentration of nitrogenous and organic materials are also important. Thus, although a sodium hypochlorite product is proposed to be mixed with Nalco 60620, it is the hypochlorous acid form that reacts with ammonia (in equilibrium with the ammonium sulfate from Nalco 60620) because hypochlorous acid is a much stronger oxidizing/antimicrobial agent than hypochlorite ion. Reactions involving ammonia/ammonium sulfate and hypochlorous acid are also greatly dependent upon pH, temperature, ratio of ammonium sulfate to hypochlorous acid, organic matter content, etc. The Nalco Co. OxiPRO system must be operated at a pH of ≥12 and the molar ratios of ammonium sulfate to hypochlorous acid must be at or above 1:1, i.e., never an excess of available chlorine. These conditions result in the formation of chloramine which is metered into the paper or paperboard water system. In the water system, chloramine degrades to hypochlorous acid.

HAZARD CHARACTERIZATION

The active ingredient, ammonium sulfate, has been affirmed by FDA as Generally Recognized as Safe (GRAS) when used as a direct food additive (21 CFR §184.1143). It is also exempt from the requirements of a tolerance when used as an inert ingredient in pesticide formulations applied to growing crops or to raw agricultural commodities after harvest (40 CFR §180.910). Ammonium and sulfate ions are normal body constituents. Ammonium ion is important in body pH balance and is excreted largely in the urine. It is a naturally-occurring crop constituent that is found in commonly consumed foods.

Fertility and developmental toxicity studies testing ammonium sulfate have not been conducted. As ammonium sulfate dissociates in biological systems, studies testing other ammonium and sulfate salts can be translated to ammonium

sulfate. A screening study conducted according to the OECD TG 422 protocol dosing with ammonium phosphate as an analog substance (forms ammonium ion in water) is available. Fully valid fertility studies with analog compounds containing sulfate ions are, however, lacking. Two limited studies with sodium sulfate can be used for assessment of fertility and developmental toxicity; however, the fetuses were not examined histologically in either of these studies. There are no in vivo genotoxicity data on ammonium sulfate. However, to bridge to ammonium sulfate, a study testing ammonium chloride was used.

Based on its natural occurrence, being a human metabolite, history of safe use as a direct food additive, and due to the absence of adverse effects in test animals at high doses, there is virtually no hazard expected from human exposure to ammonium sulfate. Therefore, toxicity endpoints for ammonium sulfate were not selected and quantitative risk assessments are not warranted.

Acute Toxicity

Ammonium sulfate is of relatively low acute toxicity via the oral route (rat, LD_{50}: 2000 - 4250 mg/kg), the dermal route (rat/mouse, LD_{50} >2000 mg/kg), and inhalation route (rat, 8-hr LC_{50} >1000 mg/m^3); note that Toxicity Categories were not assigned. Clinical signs after oral exposure included staggering, prostration, apathy, and labored and irregular breathing immediately after treatment at doses near or exceeding the LD_{50} value. In humans, inhalation of an ammonium sulfate aerosol at 0.1-0.5 mg/m^3 for 2-4 hr induced no pulmonary effects. At 1 mg/m^3, a very slight decrease in expiratory flow, in pulmonary flow resistance, and in dynamic lung compliance were observed in healthy volunteers after acute exposure. Neat ammonium sulfate was not irritating to the skin and eyes of rabbits. A study conducted using ammonium hydroxide indicates that ammonium sulfate is not likely to be a dermal sensitizer.

Inhalation

A 14-day inhalation study on rats exposed to 300 mg/m^3, the only tested dose, did not report histopathological changes in the lower respiratory tract. As the respiratory tract is the target organ system for inhalation exposure, the NOEL for toxicity to the lower respiratory tract is 300 mg/m^3.

Mutagenicity

Ammonium sulfate was not mutagenic to bacteria (Ames test) and yeasts with or without metabolic activation. It did not induce chromosomal aberrations in mammalian or human cell cultures. No in vivo genotoxicity tests are available. Based on the negative results from in vitro studies and the negative results in the in vivo micronucleus test using ammonium chloride, mutagenic activity of ammonium sulfate in vivo is unlikely.

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

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

September 14, 2012

MEMORANDUM

SUBJECT: Ammonia and Ammonium Sulfate: Human Health Registration Review Scoping Document

PC Code: 005302, 005601	DP Barcode: 404903, 401474
Decision No.: NA	Registration No.: NA
Petition No.: NA	Regulatory Action: Registration Review
Risk Assess Type: Single Chemical	Case No.: 7440, 5073
TXR No.: NA	CAS No.: 7664-41-7, 7783-20-2
MRID No.: NA	40 CFR: NA

FROM: Timothy C. Dole, CIH, Industrial Hygienist
Jenny Tao, Senior Toxicologist
William Hazel, Ph.D., Senior Chemist
Risk Assessment and Science Support Branch (RASSB)
Antimicrobials Division (7510P)

THROUGH: Timothy Leighton, Senior Scientist
Risk Assessment and Science Support Branch (RASSB)
Antimicrobials Division (7510P)

Steve Weiss, Acting Branch Chief
Risk Assessment and Science Support Branch (RASSB)
Antimicrobials Division (7510P)

TO: Rebecca von dem Hagen, Chemical Review Manager
Regulatory Management Branch II (RMBII)
Antimicrobials Division (7510P)

EXECUTIVE SUMMARY

Ammonium sulfate is registered for paper mills and industrial water systems. It is used in conjunction with sodium hypochlorite (12.5 percent) in a closed system to produce monochloramine. The specified dose on product labels is 1 to 10 ppm available chlorine for both initial and subsequent treatments.

The toxicology database is considered to be adequate for the currently registered uses and no additional studies are needed. Toxicity endpoints for ammonium sulfate have not been selected and quantitative risk assessments are not warranted. Based on its natural occurrence, being a human metabolite, history of safe use as a direct food additive, and due to the absence of adverse effects in test animals at high doses, there is no hazard expected from human exposure to ammonium sulfate from the registered uses.

No dietary (food) risks are expected to be associated with the existing uses. The only potentially toxic compound resulting in the water system from the uses of ammonium sulfate is chloramine, however, any monochloramine not consumed in the water system is expected to degrade under the high temperature conditions of the paper drying process (110° C) and it is not expected to remain in the paper to migrate to food.

No drinking water risks are expected from the proposed uses of ammonium sulfate. Very low levels of chloramine may survive to the point of discharge. EPA has established a maximum residual disinfectant level (MRDL) of 4.0 ppm and water utilities are required to maintain total chloramines at or below this MRDL. Given this limit, the fact that the maximum application rate is 10 ppm (for paper mills) and the fact that most of the monochloroamine will be consumed during the treatment process, it is highly unlikely that drinking water exposures to chloramine will result in risks of concern.

Occupational exposures are not anticipated to result in any risks of concern for ammonium sulfate because ammonium sulfate is of low toxicity and it is handled in a closed system. It is also understood that the reaction of ammonium sulfate with the chlorine source is controlled to enhance the production of monochloramine, which is non-volatile, while minimizing the production of trichloramine, which is volatile. It is recommended that the conditions needed to prevent the production of trichloramine be stated on the label.

Given the above, no toxicology or exposure data will be needed for registration review of ammonium sulfate. The Agency does not anticipate the need to conduct a quantitative human health risk assessment on ammonium sulfate.

1.0 BACKGROUND INFORMATION

1.1 Product Types

According to OPPIN, there are two products that list ammonia (PC Code 005302) as the active ingredient (ai) and two products that list ammonium sulfate (PC Code 005601) as the ai. These products are listed in Table 1.

Table 1 – Registered Products Containing Ammonia and Ammonium Sulfate

EPA Reg. Number	Product Name	Company Name	Active Ingredient Listed on Label – Percent A.I.	Active Ingredient Expressed as Percent A.I. Ammonium Sulfate
9386-49	Fennosurf 586	Kemira	Ammonia (total) – 7.59%	Ammonium Sulfate – 28%
1706-240	Nalco 60620	Nalco	Ammonium Sulfate – 20%	Ammonium Sulfate – 20%
1448-433	Busan 1215	Buckman	Ammonia (total) – 7.59%	Ammonium Sulfate – 28%
1448-432	BCMW	Buckman	Ammonia (total) – 7.59%	Ammonium Sulfate – 28%

1.2 Summary of Registered Uses

Ammonium sulfate is registered for paper mill and industrial water system uses as listed in Table 2. It is used in conjunction with sodium hypochlorite (12.5 percent) in a closed metered chemical feed system to produce monochloramine. The treatment can be administered using the slug, intermediate or continuous feed methods. The specified dose is 1 to 10 ppm available chlorine for both initial and subsequent treatments.

Table 2 – Ammonium Sulfate Antimicrobial Uses

Use	Application Rate (Available Chlorine)
Pulp and Paper Mill Water Systems	1 to 10 ppm
Industrial Cooling Towers	1 to 5 ppm
Recirculating Cooling Water Systems	1 to 5 ppm
Evaporative Condensers	1 to 5 ppm
Influent water Systems	1 to 5 ppm
Brewery and Food Pasteurizers	1 to 5 ppm
Industrial Fresh Water Systems	1 to 5 ppm
Seawater desalination and reverse osmosis systems	1 to 5 ppm
Paint booth sumps	1 to 5 ppm
Decorative fountains and ponds used for cooling purposes	1 to 5 ppm
Sewage and wastewater systems	1 to 5 ppm

1.3 Chemical and Physical Properties

The chemical and physical properties of ammonium sulfate that are relevant for human health risk assessment are listed in Table 3.

Table 3 - Chemical and Physical Properties of Ammonium Sulfate		
Property	**Value**	**Reference**
Molecular Formula	$(NH_4)_2SO_4$	HSDB
Molecular Weight	132 gm/mole	HSDB
Physical State	Solid	HSDB
Melting Point	280 C (decomposes)	HSDB
Water Solubility	77.6 gm/100 gm H_2O at 25 C	HSDB
Vapor Pressure	1×10^{-22} mm Hg at 25 C	HSDB
Henry's Law Constant	5.5×10^{-9} atm-m^3/mole	HSDB

HSDB = Hazardous Substances Database (www.toxnet.nlm.nih.gov)

2.0 TOXICOLOGY

When ammonium sulfate was registered, the toxicology databases for ammonium sulfate and monochloramine were considered to be adequate and no additional studies were required (EPA, 2011). No additional studies have been submitted by the registrants or published in the open literature. The toxicity information for ammonium sulfate was taken mainly from the OECD SIDS Dossier for ammonium sulfate (SIDS, 2004) and is reviewed by the agency in D401626 (EPA, 2012). The toxicology database for monochloramine has been reviewed previously in D386325 (EPA, 2011b) and is discussed below.

2.1 Acute Toxicity

The acute toxicity studies indicate that ammonium sulfate is of low acute toxicity (i.e. toxicity category III or IV) by all routes of administration and is not a dermal sensitizer.

2.2 Subchronic and Chronic Toxicity of Ammonium Sulfate

Inhalation Study in Rats (Pepelko, et al, 1980)
A 14-day inhalation study on rats is included in the SIDS Dossier for ammonia sulfate. During this study, 10 male rats were exposed to an ammonium sulfate aerosol for 8 hours/day at a concentration of 300 mg/m^3 (count mean particle diameter: 1 - 2 μm). Arterial blood gases were measured after 1, 3, 7, and 14 days. Pulmonary function tests were performed after 14 days of exposure and histological examinations were performed at the end of the exposure period. The exposure did not result in any significant changes in lung morphology, lung volumes, and arterial blood gases. The histological examinations did not reveal any changes in the trachea, bronchial lymph nodes, and lungs and the exposure had no adverse effects on body weight. A NOAEL of 300 mg/m^3 for toxicity to the lower respiratory tract can be deduced from the study.

Subchronic Oral Study in Rats (Takagi et al, 1999)
A 13-week oral toxicity study of ammonium sulfate was performed in F344 rats of both sexes by feeding them a CRF-1 powder diet containing concentrations of 0%, 0.39%, 0.75%, 1.5% and 3.0% of the substance. Rats were randomly divided into 5 groups each consisting of 10 males and 10 females. Male animals in the 3% group exhibited diarrhea during the administration period. No changes indicating obvious ammonium sulfate toxicity were observed in the body weights, organ weights, hematological, serum biochemical or histopathological examinations.

Based on the results, the NOAEL of ammonium sulfate was judged to be 1.5% of the diet of males (866 mg/kg/day) and 3% of females (1975 mg/kg/day). It was also determined that the maximum tolerated dose (to be used in the 2-year carcinogenicity studies) was 3.0% or more in the diet.

Chronic Toxicity/Carcinogenicity Oral Study in Rats (Ota et al, 2006)
Chronic toxicity and carcinogenicity studies of ammonium sulfate were performed in male and female Fisher 344 rats at dietary concentrations of 0%, 0.1 %, 0.6% and 3% in a 52 week toxicity study and 0%, 1.5% and 3% in a 104 week (2 year) carcinogenicity study. Significant increases in kidney and/or liver weights were observed in males and females of the 3.0% diet group, but no effects were found on survival rate, body weights, and hematological, serum biochemistry, or histological parameters at any dose levels in the chronic study. Regarding carcinogenicity, no significant influence on the incidences of tumors in any of the organs and tissues examined was observed. It was concluded that the NOAEL was 0.6% of the diet, which is equivalent to 256 and 284 mg/kg/day in males and females, respectively, and that the compound is not carcinogenic under the conditions of the study.

Metabolism
Absorbed ammonium ion is transported to the liver and ultimately incorporated in nitrogenous waste compounds such as uric acid and urea and excreted in the urine. Ammonium ion is also an endogenous substance that serves a major role in the maintenance of the acid-base balance. Minor amounts of ammonium nitrogen are incorporated in the physiological N-pool. Sulfate is a normal intermediate in the metabolism of endogenous sulfur compounds, and is excreted unchanged or in conjugated form in urine.

Mutagenicity
Ammonium sulfate was not mutagenic to bacteria (Ames test) and yeasts with or without metabolic activation. It did not induce chromosomal aberrations in mammalian or human cell cultures. No in vivo genotoxicity tests are available. Based on the negative results from in vitro studies and the negative results in the in vivo micronucleus test using ammonium chloride, mutagenic activity of ammonium sulfate in vivo is unlikely. Similar to other salts, high doses of ammonium sulfate may have the capability of tumor promotion in the rat stomach; it is, however, much less potent than sodium chloride when tested under identical conditions.

Reproductive and Developmental Toxicity
There are no reproductive and developmental toxicity studies for ammonium sulfate in the Agency's hazard database. As ammonium sulfate dissociates into ammonium (NH_4^+) and sulfate (SO_4^{-2}) ions, studies with other ammonium and sulfate salts, as analogues, available in the open literature and unpublished studies were included in the SIDS Dossier (SIDS, 2004) and summarized below.

Reproduction/Developmental Toxicity Screening Study (Fertilizer Institute, 2002)
This study was performed according to OECD Test Guideline 422. Rats were administered diammonium phosphate at dose levels of 0, 250, 750, and 1500 mg/kg/day by gavage (animals were paired 2 weeks after start of treatment). No mortality was reported, and no treatment-related signs of clinical toxicity were observed. Some treatment-related effects on hematology

parameters were noticed at the mid- and high-dose levels. Body weight gain was reduced temporarily in the high-dose group. Banding of the enamel of the incisors of the parent animals were observed from the mid-dose group, which was likely due to the inhibiting effect of phosphate on mineralization of the teeth. There were no effects on the offspring of parents exposed to diammonium phosphate. There were no effects on the time to achieve conception and pregnancy length. Viability up to day 4 postpartum and macroscopic necropsy showed no effect on the pups. The NOAEL for developmental toxicity was determined to be 1500 mg/kg/day

One Generation Reproduction Study in Mice (Andres, et al, 1989).
Female ICR mice were treated with sodium sulfate at doses of 840, 2040, 4320, or 6560 mg/kg/day in drinking water from one week prior to breeding until study end (day 21 of second parity). No treatment-related effects were found in litter size, litter weaning weights, or gestational or lactational weight gain of the dams. However, no fertility indices were measured nor were fetuses examined histopathologically.

Developmental Study in Mice (Seidenberg et al, 1986)
Aqueous sodium sulfate was administered by gavage to 28 pregnant ICR mice at a single dose of 2800 mg/kg/day from gestation days 8 through 12. The dose selected was at or near the dose level producing overt maternal toxicity in preliminary range-finding studies with non-regnant animals. No macroscopic effects or adverse effects on body weight gain were detected in the pups, however, the pups were not examined histopathologically and the exposure period was short compared to a valid guideline study, therefore the study is of limited reliability.

2.3 Subchronic and Chronic Toxicity of Monochloroamine

Developmental/Reproductive Toxicity
The developmental and reproductive toxicity of monochloramine has been examined in rats, but with suboptimal studies. However, due to the chemical relationship between mono-chloramine and chlorine, the Agency believes that the reproductive and developmental studies for chlorine may be used to satisfy these data gaps for monochloramine. The available studies do not indicate concerns for increased sensitivity of the fetus or offspring.

Reproductive Study in Rats (Carlton et al., 1986)
Chloramine was administered by gavage in water at doses of 0, 2.5, 5.0 and 10 mg/kg/day to male (12/dose group) and female (24/dose group) rats for a total of 66-76 days. Males were treated for 56 days and females for 14 days prior to mating. Dosing continued during the 10-day mating period and afterward females were dosed with chloramine daily during gestation and lactation. Males were necropsied at the end of the mating period. Dams and some offspring were necropsied at 21 days after birth. Other offspring were dosed with chloramine after weaning until they were 28-40 days old. No statistical differences were observed between control and exposed rats in fertility, viability, litter size, day of eye opening or average day of vaginal patency. There were no alterations in sperm count, direct progressive sperm movement, percent mobility or sperm morphology in adult males. Weights of male and female reproductive organs were not significantly different among control and test groups, and there were no significant morbid anatomic changes evident on tissue examination. There were no signs of toxicity, changes in blood counts, or effects on body weight in adult

rats of either sex at any dose level. The mean weight of the pups was not affected by chloramine treatment. A NOAEL of 10 mg/kg/day for reproductive effects can be defined from this study.

Developmental Study in Rats (Abdel-Rahman, et al, 1982)
Monochloramine was administered in the drinking water to female Sprague-Dawley rats (6/dose group) at 0, 0.15, 1.5 and 15 mg/kg/day. Treatment did not increase the number of fetal resorptions or affect fetal weight nor did it induce soft-tissue anomalies or skeletal malformations. The developmental NOAEL is 15 mg mg/kg/day although confidence is low due to the small number of animals exposed.

Mutagenicity/Carcinogenicity
Monochloramine is not classifiable as to human carcinogenicity (Group D) based on inadequate human data and equivocal evidence of carcinogenicity from animal bioassays. A two-year bioassay showed marginal increase in mononuclear cell leukemia in female F344/N rats. No evidence of carcinogenic activity was reported in male rats or male or female B6C3F1 mice. Genotoxicity studies, both *in vitro* and *in vivo*, gave negative results.

Chronic Toxicity (NTP, 2002)
The long-term effects of chloraminated water were examined in F344/N rats and B6C3F1 mice. Groups of rats (70/sex/dose) and mice (70/sex/dose) were administered chloraminated drinking water at 0 (controls), 50, 100 or 200 ppm for 103-104 weeks. Based on body weight and water consumption data provided in the study, the intake of chloramine was 0, 2.6, 4.8, and 8.7 mg/kg/day for male rats; 0, 3.4, 5.3 and 9.5 mg/kg/day for female rats. Consumption of chloramine in mice was 0, 5.0, 8.9, and 15.9 mg/kg/day for males; and 0, 4.9, 9.0, and 17.2 mg/kg/day for females. Interim sacrifices (10/sex/dose) were conducted at weeks 14 and 66. In both species, there were no statistically significant findings attributable to chemical exposure at the highest dose tested of 200 ppm. Based on the study results, the NOAEL was determined to be 200 ppm, or 9.5 mg chloramines/kg/day for rats and 17.2 mg chloramines/kg/day for mice.

3.0 DIETARY ASSESSMENT

3.1 Dietary Exposure

Dietary exposures to ammonium sulfate and monochloroamine were evaluated in D391302 (EPA, 2011a) which was written for the registration of ammonium sulfate as Nalco 60620. Ammonium sulfate products are mixed on site with sodium hypochlorite to form mono-chloramine which is used as a slimicide in paper and paperboard water systems at a residual chlorine level of 1-10 ppm. Treated paper and paperboard may be used for food contact. Ammonium sulfate has low acute toxicity. Longer term mammalian dosing studies resulted in such low toxicity that toxicity endpoints could not be selected. The only potentially toxic compound resulting from ammonium sulfate uses in the water system is monochloramine. Any monochloramine not consumed in the water system is expected to degrade under the high temperature conditions of the paper drying process (110 °C). Although only limited toxicity data are available on monochloramine, it is not expected to remain in the paper to migrate to food. The chemical species likely to remain to be incorporated into the dried/finished paper and

paperboard are ammonium ion, sulfate ion, nitrate ion, and chloride ion for which there are no dietary toxicity concerns. It is only these benign compounds that could potentially migrate into food from food-contact paper or paperboard. Therefore, no dietary (food) risks are expected to be associated with the proposed uses and a dietary risk assessment is not anticipated for this registration review.

3.2 Drinking Water Exposure

No drinking water risks are expected from the proposed uses of ammonium sulfate. Very low levels of monochloramine may survive to the point of discharge. EPA has established a maximum residual disinfectant level (MRDL) of 4.0 ppm and water utilities are required to maintain total chloramines at or below this MRDL. Given this limit, the fact that the maximum application rate is 10 ppm (for paper mills) and the fact that most of the monochloramine will be consumed during the treatment process, it is highly unlikely that drinking water exposures to monochloramine will result in risks of concern.

4.0 OCCUPATIONAL AND RESIDENTIAL EXPOSURES

Occupational exposures to ammonium sulfate and monochloroamine were evaluated in D391275 (EPA, 2011c) which was written for the registration of ammonium sulfate as Nalco 60620. The Agency determined that exposures were not anticipated to result in any risks of concern for ammonium sulfate because ammonium sulfate is of low toxicity and it is handled in a closed system. It was also anticipated that the reaction of ammonium sulfate with sodium hypochlorite would be controlled to enhance the production of monochloramine, which is non-volatile, while minimizing the production of trichloramine, which is volatile. It was recommended that the conditions needed to prevent the production of trichloramine be stated on the label.

Residential exposures are not anticipated for ammonium sulfate and monochloroamine because these products are only used in industrial areas.

5.0 AGGREGATE AND CUMULATIVE EXPOSURE

As there are no dietary (food or drinking water) or residential exposures associated with the currently registered uses of ammonium sulfate there is no need to estimate aggregate risks.

As discussed in D391302 (EPA, 2011a), it was assumed that, for the purposes of the section 3 registration action, that ammonium sulfate does not have a common mechanism of toxicity with other substances largely because it elicits no adverse effects in mammals. No new data have become available that would change that assumption.

6.0 INCIDENTS

There are nine human exposure incidents in the OPP incident database that are associated with ammonia or ammonium sulfate. All of these incidents are classified as minor (HD). One of

these incidents involves hand exposure to a spray adjuvant inert product, two involve foreign products that are not registered in the U.S. and six involve a currently registered antimicrobial product. No other information is included in the incident reports.

7.0 TOLERANCES

Residues of ammonium sulfate are exempted from the requirement of a tolerance when used as a solid diluent or carrier in accordance with good agricultural practices as inert (or occasionally active) ingredients in pesticide formulations applied to growing crops or to raw agricultural commodities after harvest (40 CFR 180.910).

8.0 ENDOCRINE DISRUPTION EFFECTS

As required by FIFRA and FFDCA, EPA reviews numerous studies to assess potential adverse outcomes from exposure to chemicals. Collectively, these studies include acute, subchronic and chronic toxicity, including assessments of carcinogenicity, neurotoxicity, developmental, reproductive, and general or systemic toxicity. These studies include endpoints which may be susceptible to endocrine influence, including effects on endocrine target organ histopathology, organ weights, estrus cyclicity, sexual maturation, fertility, pregnancy rates, reproductive loss, and sex ratios in offspring. For ecological hazard assessments, EPA evaluates acute tests and chronic studies that assess growth, developmental and reproductive effects in different taxonomic groups. A human health risk assessment identifying the most sensitive endpoints has not been conducted for the ammonia/ammonium sulfate case. As required by FFDCA section 408(p), ammonia/ammonium sulfate is subject to the endocrine screening part of the Endocrine Disruptor Screening Program (EDSP).

EPA has developed the EDSP to determine whether certain substances (including pesticide active and other ingredients) may have an effect in humans or wildlife similar to an effect produced by a "naturally occurring estrogen, or other such endocrine effects as the Administrator may designate." The EDSP employs a two-tiered approach to making the statutorily required determinations. Tier 1 consists of a battery of 11 screening assays to identify the potential of a chemical substance to interact with the estrogen, androgen, or thyroid (E, A, or T) hormonal systems. Chemicals that go through Tier 1 screening and are found to have the potential to interact with E, A, or T hormonal systems will proceed to the next stage of the EDSP where EPA will determine which, if any, of the Tier 2 tests are necessary based on the available data. Tier 2 testing is designed to identify any adverse endocrine-related effects caused by the substance, and establish a dose-response relationship between the dose and the E, A, or T effect. Under FFDCA section 408(p), the Agency must screen all pesticide chemicals. Between October 2009 and February 2010, EPA issued test orders/data call-ins for the first group of 67 chemicals, which contains 58 pesticide active ingredients and 9 inert ingredients. Ammonium sulfate is not among the group of 58 pesticide active ingredients on the initial list to be screened under the EDSP. For further information on the status of the EDSP, the policies and procedures, the list of 67 chemicals, future lists, the test guidelines and the Tier 1 screening battery, please visit our website: http://www.epa.gov/endo/.

9.0 ANTICIPATED DATA NEEDS

9.1 Toxicology Studies

No additional studies are needed to assess the hazards of ammonium sulfate or mono-chloramine.

9.2 Exposure Studies

No dietary or occupational and residential exposure studies are needed to assess the antimicrobial uses of ammonium sulfate.

10.0 REFERENCES

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NALCO Water
An Ecolab Company

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March 9, 2017

Document Processing Desk
Office of Pesticide Programs
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

Attention: Eric Miederhoff, Product Manager 31
Antimicrobials Division

Subject: **Label Amendment**
Product: **Nalco 60620 (EPA Reg. No. 1706-240)**

Dear Mr. Miederhoff:

Nalco Company is submitting a label amendment for **Nalco 60620 (EPA Reg. No. 1706-240)** with the following changes:

1. Updated company name and logo
2. Addition of our standard patent statement
3. Addition of "influent water" use site in the PULP & PAPER WATER SYSTEMS paragraph
4. Re-written ratio of ammonium sulfate to sodium hypochlorite under DIRECTIONS FOR USE to improve the mixing instructions so they are more clear to our customers
5. Replacement of "chloramine" with "monochloramine" each time it appears on the label in an effort to be more specific about the generated solution

In support of this amendment the following are enclosed:

1. Application Form (EPA Form 8570-1)
2. Proposed label with the changes highlighted in yellow

If you have any questions, please contact me at 630-305-2963.

Sincerely,

Rachel Stockman

Rachel C. Stockman

NALCO Water
An Ecolab Company

Rachel C. Stockman
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If you have any questions, please contact me at 630-305-2963.

Sincerely,

Rachel Stockman

Rachel C. Stockman

Hello Eric,

I submitted PSP package # EP-182506 via CDX yesterday. I'd like to withdraw it because I need to make another change to the label and submit again.

I apologize for the inconvenience.

Rachel

Rachel Stockman (Majerczak)
Regulatory Specialist I
GLOBAL REGULATORY AFFAIRS

NALCO Water | An Ecolab Company 1601 W. DIEHL ROAD, NAPERVILLE, IL 60563
T 630 305 2963 **E** rmajerczak@nalco.com

NalcoWaterlogo

Please read instructions on reverse before completing form. Form Approved. OMB No. 2070-0060, Approval expires 2-28-95

EPA	United States **Environmental Protection Agency** Washington, DC 20460	☐ **Registration** ☒ **Amendment** ☐ **Other**	OPP Identifier Number

Application for Pesticide – Section I

1. Company/Product Number **1706-240**	2. EPA Product Manager **Eric Miederhoff**	3. Proposed Classification ☒ None ☐ Restricted
4. Company/Product (Name) **Nalco 60620**	PM# **31**	
5. Name and Address of Applicant *(Include ZIP Code)* Nalco Company LLC 1601 West Diehl Road Naperville, IL 60563 ☐ *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. Nos. Product Names	

Section - II

☒ Amendment – Explain below.
☐ Resubmission in response to Agency letter dated _____
☐ Notification – Explain Below.
☐ Final printed labels in response to Agency letter dated
☐ "Me Too" Application
☐ Other – Explain Below.

Explanation: Use additional page(s) if necessary. (For Section I and Section II.)
Nalco Company is submitting a label amendment for with the following changes:
- Updated company name and logo
- Addition of our standard patent statement
- Addition of "influent water" use site in the PULP & PAPER WATER SYSTEMS paragraph
- Re-written ratio of ammonium sulfate to sodium hypochlorite under DIRECTIONS FOR USE to improve the mixing instructions so they are more clear to our customers
- Replacement of "chloramine" with "monochloramine" each time it appears on the label in an effort to be more specific about the generated solution

Section - III

1. Material This Product Will Be Packaged In:

Child-Resistant Packaging	Unit Packaging		Water Soluble Packaging		2. Type of Container
☐ Yes ☒ No	☐ Yes ☒ No		☐ Yes ☒ No		☒ Metal ☒ Plastic ☐ Glass ☐ Paper ☐ Other (Specify) _____
**** Certification must be submitted***	If "Yes" Unit Packaging wgt.	No. per Container	If "Yes" Packaging wgt.	No. per Container	

3. Location of Net Contents Information	4. Size(s) Retail Container:	5. Location of Label Directions
☐ Label ☒ Container	275 Gallon plastic tote, 400 Gallon stainless steel tote, bulk	☒ On Label ☐ On Labeling accompanying product

6. Manner in Which Label is Affixed to Product ☐ Lithograph ☒ Paper Glued ☐ Other _____ ☐ Stenciled

Section - IV

1. Contact Point *(Complete items directly below for identification of individual to be contacted, if necessary, to process this application..)*

Name	Title	Telephone No. (Include Area Code)
Rachel C. Stockman	Regulatory Specialist I	630-305-2963

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

2. Signature Rachel Stockman	3. Title Regulatory Specialist I	6. Date Application Received **(Stamped)**
4. Typed Name Rachel C. Stockman	5. Date March 9, 2017	

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

April 5, 2017

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

Subject: PRIA CSF Amendment – Addition of alternate vendor
Product Name: Nalco 60620
EPA Registration Number: 1706-240
Application Date: December 19, 2016
Decision Number: 525024

Dear Ms. Majerczak:

The Confidential Statement of Formula (CSF) referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

Please note that the record for this product currently contains the following CSFs:

- Basic CSF dated 12/19/2016

Any CSFs other than those listed above are superseded/no longer valid. If you have any questions, please contact Tara Flint by email at flint.tara@epa.gov or Eric Miederhoff at Miederhoff.eric@epa.gov.

Sincerely,

E. Miederhoff

Eric Miederhoff
Product Manager 31
Regulatory Management Branch I
Antimicrobials Division (7510P)
Office of Pesticide Programs

Product ingredient source information may be entitled to confidential treatment

Tek, Vekalet

From: Majerczak, Rachel <rmajerczak@nalco.com>
Sent: Thursday, March 30, 2017 4:49 PM
To: Tek, Vekalet
Subject: RE: Supplier information: Reg. No. 1706-240
Attachments: [redacted]

Dr. Vekalet,

Attached please find the updated COA from the supplier. I am still trying to get you an updated composition letter.

Thanks,
Rachel

From: Majerczak, Rachel
Sent: Thursday, March 30, 2017 1:20 PM
To: Tek, Vekalet <tek.vekalet@epa.gov>
Subject: RE: Supplier information: Reg. No. 1706-240

Dr. Vekalet,

Per our phone conversation I am sending you the latest approved/signed CSF dated 11/12/14.

Thanks,
Rachel

From: Majerczak, Rachel
Sent: Thursday, March 30, 2017 10:23 AM
To: Tek, Vekalet <tek.vekalet@epa.gov>
Cc: 'Flint, Tara' <flint.tara@epa.gov>
Subject: RE: Supplier information: Reg. No. 1706-240

Dr. Vekalet,

Good morning. Apologies for not getting back to you sooner, but I have been out of the office sick the past few days. I did request an updated COA and composition letter from the vendor [redacted] but am still waiting to receive it. I have followed-up again today.

In your voicemail from Tuesday you mentioned you have a question regarding the CSF. Please let me know what your questions are so I may address them.

Thank you,

Rachel Stockman (Majerczak)
Regulatory Specialist I
GLOBAL REGULATORY AFFAIRS

NALCO Water | An Ecolab Company 1601 W. DIEHL ROAD, NAPERVILLE, IL 60563
T 630 305 2963 **E** rmajerczak@nalco.com

From: Flint, Tara [mailto:flint.tara@epa.gov]
Sent: Tuesday, March 28, 2017 3:29 PM
To: Majerczak, Rachel <rmajerczak@nalco.com>
Subject: Supplier information: Reg. No. 1706-240

Good afternoon Rachel

I just wanted to shoot you a quick email related to the current CSF amendment we have for this action. The chemist conducting the review for the supplier contacted me today as she said she hasn't heard back from you yet regarding the requested information for the new supplier for the AI.

If you could contact her via email or phone at your earliest convenience to give her an update on where you are at with getting this information that would be much appreciated!

Thank you

Tara Flint
Environmental Protection Specialist
RMB1 | Antimicrobials Division
OPP | Environmental Protection Agency
(703) 347-0398

CONFIDENTIALITY NOTICE: This e-mail communication and any attachments may contain proprietary and privileged information for the use of the designated recipients named above. Any unauthorized review, use, disclosure or distribution is prohibited. If you are not the intended recipient, please contact the sender by reply e-mail and destroy all copies of the original message.

Product ingredient source information may be entitled to confidential treatment

Tek, Vekalet

From: Majerczak, Rachel <rmajerczak@nalco.com>
Sent: Thursday, March 30, 2017 2:20 PM
To: Tek, Vekalet
Subject: RE: Supplier information: Reg. No. 1706-240
Attachments: removed.txt; 60620_1706-240_CSF_20141112.pdf

Dr. Vekalet,

Per our phone conversation I am sending you the latest approved/signed CSF dated 11/12/14.

Thanks,
Rachel

From: Majerczak, Rachel
Sent: Thursday, March 30, 2017 10:23 AM
To: Tek, Vekalet <tek.vekalet@epa.gov>
Cc: 'Flint, Tara' <flint.tara@epa.gov>
Subject: RE: Supplier information: Reg. No. 1706-240

Dr. Vekalet,

Good morning. Apologies for not getting back to you sooner, but I have been out of the office sick the past few days. I did request an updated COA and composition letter from the vendor [redacted] but am still waiting to receive it. I have followed-up again today.

In your voicemail from Tuesday you mentioned you have a question regarding the CSF. Please let me know what your questions are so I may address them.

Thank you,

Rachel Stockman (Majerczak)
Regulatory Specialist I
GLOBAL REGULATORY AFFAIRS

NALCO Water | An Ecolab Company 1601 W. DIEHL ROAD, NAPERVILLE, IL 60563
T 630 305 2963 **E** rmajerczak@nalco.com

From: Flint, Tara [mailto:flint.tara@epa.gov]
Sent: Tuesday, March 28, 2017 3:29 PM
To: Majerczak, Rachel <rmajerczak@nalco.com>
Subject: Supplier information: Reg. No. 1706-240

Good afternoon Rachel

I just wanted to shoot you a quick email related to the current CSF amendment we have for this action. The chemist conducting the review for the supplier contacted me today as she said she hasn't heard back from you yet regarding the requested information for the new supplier for the AI.

If you could contact her via email or phone at your earliest convenience to give her an update on where you are at with getting this information that would be much appreciated!

Thank you

Tara Flint
Environmental Protection Specialist
RMB1 | Antimicrobials Division
OPP | Environmental Protection Agency
(703) 347-0398

CONFIDENTIALITY NOTICE: This e-mail communication and any attachments may contain proprietary and privileged information for the use of the designated recipients named above. Any unauthorized review, use, disclosure or distribution is prohibited. If you are not the intended recipient, please contact the sender by reply e-mail and destroy all copies of the original message.

Tek, Vekalet

From: Tek, Vekalet
Sent: Tuesday, March 21, 2017 5:02 PM
To: Flint, Tara
Subject: RE: 1706-240_DP437720_NALCO 60620_Missing Current Basic CSF

Hi Tara,

I have checked the latest product chemistry reviews (reviewed by Gabriela Luta on January 12, 2015) in Documentum.

Should you have further questions or concerns regarding this subject, please feel free to contact me.

Thank you!

Vekalet Tek

Vekalet Tek, Ph.D.
Product Science Branch
Antimicrobials Division
Office of Chemical Safety and Pollution Prevention
Environmental Protection Agency
One Potomac Yard
2777 Crystal Dr.
Arlington, VA 22202
E-mail: tek.vekalet@epa.gov
Office Phone:703-347-8160

From: Flint, Tara
Sent: Tuesday, March 21, 2017 4:10 PM
To: Tek, Vekalet <tek.vekalet@epa.gov>
Subject: RE: 1706-240_DP437720_NALCO 60620_Missing Current Basic CSF

Hi Vekalet

That is very strange! I can definitely email them for the most recent CSF. If I may ask—how did you find out the most recently reviewed and approved was from January 2015 if there isn't a copy of it anywhere?

From: Tek, Vekalet
Sent: Tuesday, March 21, 2017 3:44 PM
To: Flint, Tara <flint.tara@epa.gov>
Cc: Miederhoff, Eric <Miederhoff.Eric@epa.gov>; Hicks, Karen <Hicks.Karen@epa.gov>
Subject: 1706-240_DP437720_NALCO 60620_Missing Current Basic CSF

Hi Tara,
Current Basic CSF (reviewed and approved on January 12, 2015), dated 11/12/2014 for 1706-240_DP437720_NALCO 60620 is missing in Documentum, in the physical jacket and E-jacket. Therefore, could you please contact the Registrant for it?

Thank you!

Vekalet Tek

Vekalet Tek, Ph.D.
Product Science Branch
Antimicrobials Division
Office of Chemical Safety and Pollution Prevention
Environmental Protection Agency
One Potomac Yard
2777 Crystal Dr.
Arlington, VA 22202
E-mail: tek.vekalet@epa.gov
Office Phone:703-347-8160

Product ingredient source information may be entitled to confidential treatment

Tek, Vekalet

From: Tek, Vekalet
Sent: Tuesday, March 21, 2017 5:13 PM
To: Miederhoff, Eric (Miederhoff.Eric@epa.gov)
Cc: Hicks, Karen; Flint, Tara
Subject: 1706-240_DP437720_Nalco60620_Contacted the Registrant Today

Dear All,
Today, I have contacted the registrant to have the supplier [redacted]) send us updated "Raw Material Composition Letter" and "Certificate of Analysis Letter" with the preparation dates for 1706-240_DP437720_Nalco60620. Because those letters do not have any preparation dates. In addition, I also suggested them to clarify one of the item name (Assay) on the "Certificate of Analysis Letter".

Should you have any questions regarding this subject, please feel free to contact me.

Thank you!

Vekalet Tek

Vekalet Tek, Ph.D.
NOWCC-SEE Program Enrollee
Product Science Branch
Antimicrobials Division
Office of Chemical Safety and Pollution Prevention
Environmental Protection Agency
One Potomac Yard
2777 Crystal Dr.
Arlington, VA 22202
E-mail: tek.vekalet@epa.gov
Office Phone:703-347-8160
Cell:786-838-8007

Product ingredient source information may be entitled to confidential treatment

Tek, Vekalet

From: Tek, Vekalet
Sent: Wednesday, March 22, 2017 10:13 AM
To: Flint, Tara
Subject: RE: 1706-240_DP437720_Nalco60620_Contacted the Registrant Today

Thank you Tara, I appreciate it.

Vekalet Tek

From: Flint, Tara
Sent: Wednesday, March 22, 2017 8:07 AM
To: Tek, Vekalet <tek.vekalet@epa.gov>; Miederhoff, Eric <Miederhoff.Eric@epa.gov>
Cc: Hicks, Karen <Hicks.Karen@epa.gov>
Subject: RE: 1706-240_DP437720_Nalco60620_Contacted the Registrant Today

Okay thanks for the heads up Vekalet

Also I have the newest version of the CSF so I will print off a copy for you today!

From: Tek, Vekalet
Sent: Tuesday, March 21, 2017 5:13 PM
To: Miederhoff, Eric <Miederhoff.Eric@epa.gov>
Cc: Hicks, Karen <Hicks.Karen@epa.gov>; Flint, Tara <flint.tara@epa.gov>
Subject: 1706-240_DP437720_Nalco60620_Contacted the Registrant Today

Dear All,
Today, I have contacted the registrant to have the supplier [redacted] send us updated "Raw Material Composition Letter" and "Certificate of Analysis Letter" with the preparation dates for 1706-240_DP437720_Nalco60620. Because those letters do not have any preparation dates. In addition, I also suggested them to clarify one of the item name (Assay) on the "Certificate of Analysis Letter".

Should you have any questions regarding this subject, please feel free to contact me.

Thank you!

Vekalet Tek
Vekalet Tek, Ph.D.
NOWCC-SEE Program Enrollee
Product Science Branch
Antimicrobials Division
Office of Chemical Safety and Pollution Prevention
Environmental Protection Agency
One Potomac Yard
2777 Crystal Dr.
Arlington, VA 22202
E-mail: tek.vekalet@epa.gov
Office Phone:703-347-8160
Cell:786-838-8007

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

EPA United States Environmental Protection Agency **Office of Pesticide Programs**

Antimicrobials Division (AD)
03/31/2017

EPA. Reg.# **1706-240**	DP Barcode: **437720**		
	Submission #: **996493**	E-Sub#: **16221**	
Product Name: **Nalco 60620**	Registrant: **Nalco Company, LLC.**		
Reviewer's Name: **Vekalet Tek, Ph.D.**	AD/PSB/CTT- **Product Chemistry Review**		
Agency PRIA due date: **05/10/2017**	PSB received date: **01/25/2017**		
CTT received date: **01/25/2017**	Science received date: **01/25/2017**		
Formulation type: **End-Use Product**	Pesticide classification: **Antimicrobial**		
Integrated system: [X]	Nonintegrated system: []	Food use: []	Non-food use: [X]
Action Code: **(A570) Amendment; Non-Fast Track;Requiring Data Review;**	Date Completed: **03/31/2016**		

PC Code(s)	CAS #(s)	Active Ingredient Names	% wt (label)
005601	**7783-20-2**	**Ammonium Sulfate**	**20**

Molecular Structure (Optional);	
MRID(s): N/A	
Approver: Karen P. Hicks	Approved date: **03/31/2017**
Guidelines:	
Comments: This product is for non-food use	

V. TEK
03/31/2017

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

EPA United States Environmental Protection Agency **Office of Pesticide Programs**

Antimicrobials Division (AD)
03/31/2017

MEMORANDUM

Subject: Product Chemistry Review for EPA Reg. No.1706-240
Product Name: Nalco 60620
DP Barcode: 437720

From: Vekalet Tek, Ph.D., Chemist
Product Science Branch, CT Team
Antimicrobials Division (7510P)

Thru: Karen P. Hicks, CT Team Leader
Product Science Branch
Antimicrobials Division (7510P)

To: Tara Flint/Eric Miederhoff
PM#31
Regulatory Management Branch I
Antimicrobials Division (7510P)

APPLICANT:
Action code: (A570) **Amendment; Non-Fast Track; Requiring Data Review;**
Formulation from Label;

PC Code(s)	CAS #(s)	Active Ingredient Names	%wt (label)
005601	**7783-20-2**	**Ammonium Sulfate**	**20**

V. TEK
03/31/2017

BACKGROUND:

The registrant, NALCO COMPANY, LLC., has done a CSF amendment by revising the Basic CSF, dated 12/19/2017, for its product, Nalco 60620, Reg#1706-240. The company has requested to add a new source for the active ingredient.

FOLLOWING DOCUMENTS ARE REVIEWED:

1. A Cover Letter from the registrant, dated 12/19/2016.
2. Application Form (EPA Form 8570-1), dated .
3. Proposed Confidential Statement of Formula (CSF): Basic CSF, dated 12/19/2016.
4. "Certificate of Analysis" and revised "Certificate of Analysis", dated 03/30/2017, from supplier.
5. "Raw Material Composition Letter" and revised "Raw Material Composition Letter", dated 03/30/2017, from supplier.

FINDINGS:

1. Nalco 60620 is an integrated, non-food use and end-use product.
2. The nominal concentration of the active ingredient (AI) on Basic CSF, dated 12/19/2016, is consistent with the product label, dated 01/12/2016.
3. Previous Product Chemistry Review, dated 01/12/2015, current Basic CSF, dated 11/12/2014, e-mail messages from the registrant, Raw Material Composition Letter, dated 03/30/2017, and Certificate of Analaysis, dated 03/30/2017, for Batch#250 GB were used as references.
4. According to Raw Material Composition Letter, dated 03/30/2017, 0.1% or more percent toxic impurities were not produced as byproducts.
5. Density and pH of the product were not changed.
6. The active ingredient is from an unregistered source.
7. The inert ingredient is cleared for use in pesticide formulations.
8. The EPA certified limits were used for the active ingredient for the proposed CSF; Basic CSF, dated 12/19/2016.
9. Adding a new source to the product is acceptable.
10. Current Basic CSF, dated 11/12/2014, is superseded by the proposed Basic CSF, dated 12/19/2016.
11. Proposed Basic CSF, dated 12/19/2016, is acceptable.

CONCLUSIONS:

The Product Science Branch of The Antimicrobials Division finds the proposed Basic CSF, dated 12/19/2016, to be acceptable.

V. TEK
03/31/2017

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

EPA United States Environmental Protection Agency **Office of Pesticide Programs**

Antimicrobials Division (AD)
03/31/2017

EPA. Reg.# **1706-240**	DP Barcode: **437720**		
	Submission #: **996493**	E-Sub#: **16221**	
Product Name: **Nalco 60620**	Registrant: **Nalco Company, LLC.**		
Reviewer's Name: **Vekalet Tek, Ph.D.**	AD/PSB/CTT- **Product Chemistry Review**		
Agency PRIA due date: **05/10/2017**	PSB received date: **01/25/2017**		
CTT received date: **01/25/2017**	Science received date: **01/25/2017**		
Formulation type: **End-Use Product**	Pesticide classification: **Antimicrobial**		
Integrated system: [X]	Nonintegrated system: []	Food use: []	Non-food use: [X]
Action Code: **(A570) Amendment; Non-Fast Track;Requiring Data Review;**	Date Completed: **03/31/2016**		

PC Code(s)	CAS #(s)	Active Ingredient Names	% wt (label)
005601	**7783-20-2**	**Ammonium Sulfate**	**20**

Molecular Structure (Optional);	
MRID(s): N/A	
Approver: Karen P. Hicks	Approved date: **03/31/2017**
Guidelines:	
Comments: This product is for non-food use	

BACKGROUND:

The registrant, NALCO COMPANY, LLC., has done a CSF amendment by revising the Basic CSF, dated 12/19/2017, for its product, Nalco 60620, Reg#1706-240. The company has requested to add a new source for the active ingredient.

FOLLOWING DOCUMENTS ARE REVIEWED:

1. A Cover Letter from the registrant, dated 12/19/2016.
2. Application Form (EPA Form 8570-1), dated .
3. Proposed Confidential Statement of Formula (CSF): Basic CSF, dated 12/19/2016.
4. "Certificate of Analysis" and revised "Certificate of Analysis", dated 03/30/2017, from supplier.
5. "Raw Material Composition Letter" and revised "Raw Material Composition Letter", dated 03/30/2017, from supplier.

FINDINGS:

1. Nalco 60620 is an integrated, non-food use and end-use product.
2. The nominal concentration of the active ingredient (AI) on Basic CSF, dated 12/19/2016, is consistent with the product label, dated 01/12/2016.
3. Previous Product Chemistry Review, dated 01/12/2015, current Basic CSF, dated 11/12/2014, e-mail messages from the registrant, Raw Material Composition Letter, dated 03/30/2017, and Certificate of Analaysis, dated 03/30/2017, for Batch#250 GB were used as references.
4. According to Raw Material Composition Letter, dated 03/30/2017, 0.1% or more percent toxic impurities were not produced as byproducts.
5. Density and pH of the product were not changed.
6. The active ingredient is from an unregistered source.
7. The inert ingredient is cleared for use in pesticide formulations.
8. The EPA certified limits were used for the active ingredient for the proposed CSF; Basic CSF, dated 12/19/2016.
9. Adding a new source to the product is acceptable.
10. Current Basic CSF, dated 11/12/2014, is superseded by the proposed Basic CSF, dated 12/19/2016.
11. Proposed Basic CSF, dated 12/19/2016, is acceptable.

CONCLUSIONS:

The Product Science Branch of The Antimicrobials Division finds the proposed Basic CSF, dated 12/19/2016, to be acceptable.

Pages 98-107 - *Product ingredient source information may be entitled to confidential treatment*

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

January 13, 2017

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

OPP Decision Number: D-525024
EPA File Symbol or Registration Number: 1706-240
Product Name: NALCO 60620
EPA Receipt Date: 19-Dec-2016
EPA Company Number: 1706
Company Name: NALCO COMPANY, LLC

RACHEL MAJERCZAK
NALCO COMPANY, LLC
A SUBSIDIARY OF ECOLAB, INC.
370 WABASHA STREET NORTH
ST. PAUL, MN 55102-1390

SUBJECT: Recoding of Registration Amendment Subject to Registration Service Fee

Dear Registrant:

The Office of Pesticide Programs has roded your amendment that now is subject to a Pesticide Registration Service Fee as defined in the Pesticide Registration Improvement Act.

This action has been recoded as action code A570:

AMENDMENT;NON-FAST TRACK;REQUIRING DATA REVIEW;

No additional payment is due at this time. If you have any questions, please contact the Pesticide Registration Service Fee Ombudsman at (703) 308-8154.

Sincerely,

Front End Processing Staff
Information Technology & Resources Management Division

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

December 23, 2016

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

MS. TAMERA MCKEEHAN
ECOLAB, INC.
NALCO COMPANY, LLC
A SUBSIDIARY OF ECOLAB, INC.
370 WABASHA STREET NORTH
ST. PAUL, MN 55102-1390

PRODUCT NAME: NALCO 60620
COMPANY NAME: NALCO COMPANY, LLC
OPP IDENTIFICATION NUMBER:
EPA FILE SYMBOL: 1706-240
EPA RECEIPT DATE: 12/19/16

SUBJECT: RECEIPT OF AMENDMENT

DEAR REGISTRANT:

The Office of Pesticide Programs has received your application for an amendment and it has passed an administrative screen for completeness.

During the initial screen we determined that the application appears to qualify for fast track review. The package will now be forwarded to the Product Manager for review to determine its acceptability for fast track status.

If you have any questions, please contact Antimicrobials Division, Risk Management Team 31, at (703) 347-8028.

Sincerely,

Front End Processing Staff
Information Services Branch
Information Technology & Resources Management Division

Fee for Service

{996493P~

This package includes the following

- ○ New Registration
- ◉ Amendment

☐ Studies? ☐ Fee Waiver?

☐ volpay % Reduction: ___

for Division

- ◉ AD
- ○ BPPD
- ○ RD

Risk Mgr. 31

Receipt No. S- 996493

EPA File Symbol/Reg. No. 1706-240

Pin-Punch Date: 12/19/2016

☒ This item is NOT subject to FFS action.

Action Code:

Requested:

Granted:

Amount Due: $ _____

Parent/Child Decisions:

▣ Inert Cleared for Intended Use ▣ Uncleared Inert in Product

Reviewer:_____ Date: 12/20/16

Remarks:

Pay.gov

Receipt

Your payment is complete

Pay.gov Tracking ID: 25VK8PT5
Agency Tracking ID: 75149713942
Form Name: Pesticide Registration Improvement Act - Prepayment
Application Name: PRIA Service Fees

Payment Information

Payment Type: Debit or credit card
Payment Amount: $3,831.00
Transaction Date: 12/19/2016 03:30:22 PM EST
Payment Date: 12/19/2016
Registration Number: 1706-240
Company Name: Nalco Company LLC
Company Number: 1706
Action Code: A570

Account Information

Cardholder Name: Rachel C Majerczak
Card Type: Master Card
Card Number: **********7285

Email Confirmation Receipt

Confirmation Receipts have been emailed to:
rmajerczak@nalco.com

NALCO Water
An Ecolab Company

Rachel Majerczak
Regulatory Specialist I

1601 W. DIEHL ROAD
NAPERVILLE, IL 60563-1198
rmajerczak@nalco.com
630 305 2963

December 19, 2016

Document Processing Desk (AMEND)
Office of Pesticide Programs (7510P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

Attention: Eric Miederhoff
Product Manager 31
Antimicrobials Division

Subject: **CSF Amendment – New Alternate Vendor**
Product: Nalco 60620 (EPA Reg. No. 1706-240)

Dear Mr. Miederhoff:

Nalco Company is submitting a CSF amendment for Nalco 60620 (EPA Reg. No. 1706-240) to add an alternate supplier for the active ingredient.

In support of this amendment the following are enclosed:

1. Application Form (EPA Form 8570-1)
2. CSF (EPA Form 8570-4) with the changes highlighted in yellow
3. Supporting documents for the alternate supplier (COA, SDS, Composition letter)
4. PRIA fee payment documentation

If you have any questions, please contact me at 630-305-2963.

Sincerely,

Rachel Majerczak

Rachel Majerczak
Regulatory Specialist I
NA Commercial Biocides

Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060, Approval expires 2-28-95

EPA	United States **Environmental Protection Agency** Washington, DC 20460	☐ **Registration** ☒ **Amendment** ☐ **Other**	OPP Identifier Number

Application for Pesticide – Section I

1. Company/Product Number **1706-240**	2. EPA Product Manager **Eric Miederhoff**	3. Proposed Classification ☒ None ☐ Restricted
4. Company/Product (Name) **Nalco 60620**	PM# **31**	
5. Name and Address of Applicant *(Include ZIP Code)* Nalco Company LLC 1601 West Diehl Road Naperville, IL 60563 ☐ *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. Nos. Product Names	

Section - II

☒ Amendment – Explain below.
☐ Resubmission in response to Agency letter dated _____
☐ Notification – Explain Below.
☐ Final printed labels in response to Agency letter dated
☐ "Me Too" Application
☐ Other – Explain Below.

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

Nalco Company LLC is submitting an amendment to add an alternate vendor for the active ingredient to CSF-Basic.

Section - III

1. Material This Product Will Be Packaged In:

Child-Resistant Packaging	Unit Packaging		Water Soluble Packaging		2. Type of Container
☐ Yes ☒ No	☐ Yes ☒ No		☐ Yes ☒ No		☒ Metal ☒ Plastic ☐ Glass ☐ Paper ☐ Other (Specify) _____
**** Certification must be submitted***	If "Yes" Unit Packaging wgt.	No. per Container	If "Yes" Packaging wgt.	No. per Container	

3. Location of Net Contents Information	4. Size(s) Retail Container:	5. Location of Label Directions
☐ Label ☒ Container	275 Gallon plastic tote, 400 Gallon stainless steel tote, bulk	☒ On Label ☐ On Labeling accompanying product

6. Manner in Which Label is Affixed to Product ☐ Lithograph ☒ Paper Glued ☐ Other _____ ☐ Stenciled

Section - IV

1. Contact Point *(Complete items directly below for identification of individual to be contacted, if necessary, to process this application..)*

Name	Title	Telephone No. (Include Area Code)
Rachel Majerczak	Regulatory Specialist I	630-305-2963

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

2. Signature Rachel Majerczak	3. Title Regulatory Specialist I	6. Date Application Received **(Stamped)**
4. Typed Name Rachel Majerczak	5. Date December 19, 2016	

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

June 8, 2016

Ms. Rachel Majerczak
Regulatory Specialist for,
Nalco Water
1601 W. Diehl Road
Naperville, IL 6053-1198

Subject: Notification per PRN 98-10 – Addition of Symbol/Graphic to the product labeling
Product Name: Nalco 60620
EPA Registration Number: 1706-240
Application Date: May 27, 2016
Decision Number: 517974

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 Karen M. Leavy at 703-308-6237 via email at Leavy.Karen@epa.gov.

Sincerely,

Karen M. Leavy for,

Eric Miederhoff
Product Manager 31
Regulatory Management Branch I
Antimicrobials Division (7510P)
Office of Pesticide Programs

PRECAUTIONARY STATEMENTS: HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed or absorbed through the skin. May cause irritation to the eyes and skin. Do not get in eyes, on skin, or on clothing. Use with adequate ventilation. Wear protective eyewear (goggles, face shield or safety glasses), protective clothing and protective gloves (rubber, chemical resistant) when handling. Remove contaminated clothing and wash clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

ENVIRONMENTAL HAZARDS

NOTIFICATION

This pesticide is toxic to fish and aquatic organisms. 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.

PHYSICAL AND CHEMICAL HAZARDS

Direct mixing of this product with sodium hypochlorite solutions and other strong oxidizing and alkali chemicals will release hazardous gases. Only mix with other chemicals or materials solutions following the Directions for Use of this product.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Keep container tightly closed. Store in a dry place. Leaking or damaged containers should be placed in an overpack container for disposal. Spills should be contained and cleaned using an absorbent material and disposed of in a sanitary landfill.

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.

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.

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 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.

NOTIFICATION

1706-240

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:

06/09/2016

Revised 05/26/2016
EPA Reg. # 1706-240
Page 1 of 2

NALCO

NALCO® 60620

A MICROORGANISM CONTROL CHEMICAL

ACTIVE INGREDIENT:
Ammonium Sulfate.....20.0%
INERT INGREDIENTS:.....80.0%
TOTAL:.....100.0%

EPA Reg. No. 1706-240

EPA Est. No. 1706-IL-1 (BP)
EPA Est. No. 1706-PA-1 (EL)
EPA Est. No. 1706-WA-1 (VW)
EPA Est. No. 1706-LA-2 (PL)

Letter in () that matches first letter in batch number identifies the establishment number.

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID

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 a doctor for treatment advice.

IF IN EYES: Hold eyes 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 a doctor for treatment advice.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or a doctor for treatment advice.

NOTE: Have the product container or label with you when calling a poison control center or a doctor, or going for treatment.

SEE LEFT SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

Nalco Company
1601 West Diehl Road
Naperville, IL 60563-1198
EMERGENCY PHONE NO. (800) 424-9300

NET CONTENTS SHOWN ELSEWHERE ON CONTAINER

PRODUCT IS NOT REGULATED DURING TRANSPORTATION

DIRECTIONS FOR USE

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

For the control of bacteria, algae and fungi. Nalco 60620 must be used in conjunction with: 1) an EPA registered sodium hypochlorite product (12.5%) to produce chloramine; and 2) the OxiPRO delivery system at a pH of ≥8.5 as described below. The OxiPRO delivery system can be configured for a primary or secondary dilution strategy. Your Nalco technical representative will determine which OxiPRO delivery system configuration is appropriate for treatment of your system.

Nalco 60620 and the sodium hypochlorite are mixed in a specially designed OxiPRO system that produces the chloramine solution on site. The products are blended to achieve a minimum molar ratio of 0.5 to 1.0 Nalco 60620 to sodium hypochlorite (12.5%). The chloramine is typically achieved by mixing 0.6 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). The OxiPRO delivery system controller ensures the automatic production of the dilute chloramine solution, controls the optimization of the production process, and ensures adequate dosing into the water system requiring treatment. The design, treatment, installation, calibration, and operation of the feeding system in all plants is to be conducted only by authorized and trained personnel.

Use of this product for any other purpose or contrary to the instructions below, or without the supervision of authorized trained personnel is prohibited.

Note: Do not use other feeding modes to mix Nalco 60620 and the sodium hypochlorite. Non-authorized personnel are prohibited from operating or otherwise handling the feeding system or its chemical ingredients.

PULP AND PAPERMILL WATER SYSTEMS AND PRODUCTION OF FIBERGLASS

Dosage Rates: When the system is noticeably fouled, apply sufficient Nalco 60620 and sodium hypochlorite to achieve a chlorine residual in excess of the system oxidant demand. The chloramine solution produced by the delivery system is immediately added to the process waters for which treatment is required. The chloramine solution may be added to any point of uniform mixing. Addition may be continuous or intermittent depending on the severity of the contamination when treatment starts, and on other system operation parameters.

A. SLUG FEED METHOD

Initial Dose: When the system is noticeably fouled, add the appropriate amount of chloramine to the system to obtain from 1 to 10 ppm total available chlorine. The chloramine dosage is achieved by mixing 0.6 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Repeat until control is achieved. Badly fouled systems must be cleaned before treatment is begun.

Subsequent Dose: When microbial control is evident, add the appropriate amount of chloramine to the system daily, or as needed to maintain control and keep the total chlorine residual at 1 to 10 ppm.

B. INTERMITTENT FEED METHOD

Initial Dose: When the system is noticeably fouled, add the appropriate amount of chloramine to the system to obtain from 1 to 10 ppm total available chlorine. The chloramine dosage is achieved by mixing 0.6 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Badly fouled systems must be cleaned before treatment is begun.

Subsequent Dose: When microbial control is evident, add the appropriate amount of chloramine to the system to obtain a 1 – 10 ppm total chlorine residual.

C. CONTINUOUS FEED METHOD

Initial Dose: When the system is noticeably fouled, add the appropriate amount of chloramine to the system to obtain 1 to 10 ppm total available chlorine. The chloramine dosage is achieved by mixing 0.6 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Badly fouled systems must be cleaned before treatment is begun.

Subsequent Dosage: Maintain this treatment level by starting a continuous feed of chloramine to maintain a 1 to 10 ppm total chlorine residual.

Note to reviewer: Text in brackets [ ] is considered optional text. The optional statement "Not Approved for California" may be added to other use sites as required by CDPR.

INDUSTRIAL WATER SYSTEMS:
Nalco 60620 is used for the control of algal, bacterial and fungal deposits in industrial cooling towers, recirculating cooling water systems, evaporative condensers, influent water systems, industrial fresh water systems, airwashers, seawater desalination and reverse osmosis systems [(Not Approved for California)], paint spray booth sumps, ponds used for cooling purposes, sewage and wastewater systems [(Not Approved for California)]. This product is also used for the control of algae, bacteria, fungi and [mollusks – NOT APPROVED FOR CALIFORNIA] in both seawater and freshwater influent systems.

When this product is used to treat sewage and wastewater systems, seawater, and freshwater influent systems for once-through industrial water systems [(Not Approved for California)], and seawater desalination and reverse osmosis systems, and the system water is not sent to a POTW; residual levels of chloramine in the effluent must be monitored and neutralized using on-line monitoring and control equipment.

When this product is used to treat recirculating cooling water systems, evaporative condensers, influent water systems (not part of once-through industrial water systems), airwashers, paint spray booth sumps,-ponds used for cooling purposes; effluent detection of chloramine should be conducted at least once per shift. If chloramine is detected in the effluent, it can be neutralized by the addition of sodium metabisulfite until the chloramine is no longer detected.

Dosage Rates: When noticeably fouled, apply sufficient product and sodium hypochlorite to achieve a total chlorine residual of at least 1 ppm in excess of the system oxidant demand. Once control is achieved, treatment rates can be reduced to sub-demand rates from 50% to 80% of system demand. The product may be added to the system continuously or intermittently as needed to any area of the system where uniform mixing can be obtained.

For intermittent treatment: The chloramine dosage is typically achieved by mixing 0.6 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Apply the solution at a rate to obtain 1 to 2 ppm in excess of the system oxidant demand (maximum of 5 ppm measured) as total chlorine in the water being treated for 5 to 60 minutes every 1 to 6 hours. The frequency of feeding and the duration of treatment will depend on the severity of the problem. Badly fouled systems must be cleaned before initial treatment.

For continuous treatment: The chloramine dosage is typically achieved by mixing 0.6 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Apply the solution at a rate to obtain 0.5 to 1 ppm in excess of the system oxidant demand (maximum of 5 ppm measured) as total chlorine in the water being treated on a continuous basis. The frequency of feeding and the duration of treatment will depend on the severity of the problem. Badly fouled systems must be cleaned before initial treatment.

[The following are optional marketing text]

cRc KOSHER 1005

OxiPRO MICROBIAL CONTROL TECHNOLOGY

PRODUCT IS NOT REGULATED DURING TRANSPORTATION

NALCO Water
An Ecolab Company

Rachel Majerczak
Regulatory Specialist I

1601 W. DIEHL ROAD
NAPERVILLE, IL 60563-1198
rmajerczak@nalco.com
630 305 2963

May 27, 2016

Document Processing Desk (NOTIF)
Office of Pesticide Programs (7510P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

Attention: Julie Chao
Product Manager 33
Antimicrobials Division

Subject: **Label Notification** – Addition of "Symbol/Graphic" to label
Product: Nalco 60620 (EPA Reg. No. 1706-240)

Dear Ms. Chao:

Nalco Company LLC is submitting a notification regarding the addition of a trademarked logo and Kosher certification symbol (two graphics) to the bottom of the label.

In support of this notification I have included:

1. The EPA Application Form (EPA Form 8570-1)
2. One copy of the revised label with the graphics highlighted in yellow
3. One copy of the revised, unmarked label

If you have any questions, please contact me at (630) 305-2963.

Regards,

Rachel Majerczak

Rachel Majerczak
Regulatory Specialist
Regulatory Affairs

Please read instructions on reverse before completing form. Form approved. OMB No. 2070-0060, Approval expires 2-28-95

EPA United States **Environmental Protection Agency** Washington, DC 20460

☐ **Registration** ☐ **Amendment** ☒ **Other**

OPP Identifier Number

Application for Pesticide – Section I

1. Company/Product Number **1706-240**	2. EPA Product Manager **Julie Chao**	3. Proposed Classification ☒ None ☐ Restricted
4. Company/Product (Name) **Nalco 60620**	PM# **33**	
5. Name and Address of Applicant *(Include ZIP Code)* Nalco Company LLC 1601 West Diehl Road Naperville, IL 60563 ☐ *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. Nos. Product Names	

Section - II

☐ Amendment – Explain below.
☐ Resubmission in response to Agency letter dated _____
☒ Notification – Explain Below.
☐ Final printed labels in response to Agency letter dated
☐ "Me Too" Application
☐ Other – Explain Below.

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

Nalco Company LLC is submitting a notification regarding the addition of a trademarked logo and Kosher certification symbol (two graphics) to the bottom of the label.

This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Section - III

1. Material This Product Will Be Packaged In:

Child-Resistant Packaging	Unit Packaging		Water Soluble Packaging		2. Type of Container
☐ Yes ☒ No **** Certification must be submitted***	☐ Yes ☒ No If "Yes" Unit Packaging wgt.	No. per Container	☐ Yes ☒ No If "Yes" Packaging wgt.	No. per Container	☒ Metal ☒ Plastic ☐ Glass ☐ Paper ☐ Other (Specify) _____

3. Location of Net Contents Information	4. Size(s) Retail Container:	5. Location of Label Directions
☐ Label ☒ Container	275 Gallon plastic tote, 400 Gallon stainless steel tote, bulk	☒ On Label ☐ On Labeling accompanying product

6. Manner in Which Label is Affixed to Product ☐ Lithograph ☒ Paper Glued ☐ Other _____ ☐ Stenciled

Section - IV

1. Contact Point *(Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)*

Name	Title	Telephone No. (Include Area Code)
Rachel Majerczak	Regulatory Specialist I	630-305-2963

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

2. Signature Rachel Majerczak	3. Title Regulatory Specialist I	6. Date Application Received **(Stamped)**
4. Typed Name Rachel Majerczak	5. Date May 27, 2016	

Receipt for Section 3

S: 986986 Milestone Email:

Regulatory Type: Product Registration - Section 3

Application Type: Notification

Resubmission Yes No

Fee For Service: Yes No

Print Letter

Enter More Information

Tracking

Company: 1706 NALCO COMPANY, LLC

Risk Manager: Antimicrobials Division, Risk Management Team 31

Product #: 1706-240 Product Name: NALCO 60620

Override#

Me Too Section3: Me Too Product Name:

Application Date: 27-May-2016 OPP Rec'vd Date: 31-May-2016

Front End Date: 31-May-2016 Risk Manager Send Date: 31-May-2016

FFS Due Date: Negotiated Due Date:

OPP Target Date:

Receipt Content | Des

Paper Label

View/Edit

Fast Track New Ingredient

Receipt Description:

Label Notification

New Ingredient Request Date

New Ingredient Received Date

Form A Signature Date Form E Signature Date

K

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

January 12, 2016

Linda. J. Fane
Nalco, an Ecolab. Company
1601 West Diehl Road
Naperville, IL 60563

Subject: Label Amendment – To add "Not approved for California" as optional text for specific use sites.
Product Name: Nalco 60620
EPA Registration Number: 1706-240
Application Date: September 10, 2015
Decision Number: 509855

Dear Ms. Fane,

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

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.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance

with FIFRA section 6. If you have any questions, please contact Emilia Oiguenblik by phone at 703 347 0199 or Eric Miederhoff at 703 347 8028.

Sincerely,

E. Miederhoff

Eric Miederhoff
Product Manager 31
Regulatory Management Branch I
Antimicrobials Division (7510P)
Office of Pesticide Programs
Date: January 12, 2016

Enclosure: Stamped label

PRECAUTIONARY STATEMENTS: HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed or absorbed through the skin. May cause irritation to the eyes and skin. Do not get in eyes, on skin, or on clothing. Use with adequate ventilation. Wear protective eyewear (goggles, face shield or safety glasses), protective clothing and protective gloves (rubber, chemical resistant) when handling. Remove contaminated clothing and wash clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic organisms. 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.

PHYSICAL AND CHEMICAL HAZARDS

Direct mixing of this product with sodium hypochlorite solutions and other strong oxidizing and alkali chemicals will release hazardous gases. Only mix with other chemicals or materials solutions following the Directions for Use of this product.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Keep container tightly closed. Store in a dry place. Leaking or damaged containers should be placed in an overpack container for disposal. Spills should be contained and cleaned using an absorbent material and disposed of in a sanitary landfill.

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.

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.

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 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.

NET CONTENTS SHOWN ELSEWHERE ON CONTAINER

NALCO

NALCO® 60620

A MICROORGANISM CONTROL CHEMICAL

ACTIVE INGREDIENT:
Ammonium Sulfate.....20.0%
INERT INGREDIENTS:.....80.0%
TOTAL:.....100.0%

EPA Reg. No. 1706-240

EPA Est. No. 1706-IL-1 (BP)
EPA Est. No. 1706-PA-1 (EL)
EPA Est. No. 1706-WA-1 (VW)
EPA Est. No. 1706-LA-2 (PL)

Letter in () that matches first letter in batch number identifies the establishment number.

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID

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 a doctor for treatment advice.

IF IN EYES: Hold eyes 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 a doctor for treatment advice.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or a doctor for treatment advice.

NOTE: Have the product container or label with you when calling a poison control center or a doctor, or going for treatment.

SEE LEFT SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

Nalco Company
1601 West Diehl Road
Naperville, IL 60563-1198
EMERGENCY PHONE NO. (800) 424-9300

DIRECTIONS FOR USE

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

For the control of bacteria, algae and fungi. Nalco 60620 must be used in conjunction with: 1) an EPA registered sodium hypochlorite product (12.5%) to produce chloramine; and 2) the OxiPRO delivery system at a pH of ≥8.5 as described below. The OxiPRO delivery system can be configured for a primary or secondary dilution strategy. Your Nalco technical representative will determine which OxiPRO delivery system configuration is appropriate for treatment of your system.

Nalco 60620 and the sodium hypochlorite are mixed in a specially designed OxiPRO system that produces the chloramine solution on site. The products are blended to achieve a minimum molar ratio of 0.5 to 1.0 Nalco 60620 to sodium hypochlorite (12.5%). The chloramine is typically achieved by mixing 0.6 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). The OxiPRO delivery system controller ensures the automatic production of the dilute chloramine solution, controls the optimization of the production process, and ensures adequate dosing into the water system requiring treatment. The design, treatment, installation, calibration, and operation of the feeding system in all plants is to be conducted only by authorized and trained personnel.

Use of this product for any other purpose or contrary to the instructions below, or without the supervision of authorized trained personnel is prohibited.

Note: Do not use other feeding modes to mix Nalco 60620 and the sodium hypochlorite. Non-authorized personnel are prohibited from operating or otherwise handling the feeding system or its chemical ingredients.

PULP AND PAPERMILL WATER SYSTEMS AND PRODUCTION OF FIBERGLASS

Dosage Rates: When the system is noticeably fouled, apply sufficient Nalco 60620 and sodium hypochlorite to achieve a chlorine residual in excess of the system oxidant demand. The chloramine solution produced by the delivery system is immediately added to the process waters for which treatment is required. The chloramine solution may be added to any point of uniform mixing. Addition may be continuous or intermittent depending on the severity of the contamination when treatment starts, and on other system operation parameters.

A. SLUG FEED METHOD

Initial Dose: When the system is noticeably fouled, add the appropriate amount of chloramine to the system to obtain from 1 to 10 ppm total available chlorine. The chloramine dosage is achieved by mixing 0.6 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Repeat until control is achieved. Badly fouled systems must be cleaned before treatment is begun.

Subsequent Dose: When microbial control is evident, add the appropriate amount of chloramine to the system daily, or as needed to maintain control and keep the total chlorine residual at 1 to 10 ppm.

B. INTERMITTENT FEED METHOD

Initial Dose: When the system is noticeably fouled, add the appropriate amount of chloramine to the system to obtain from 1 to 10 ppm total available chlorine. The chloramine dosage is achieved by mixing 0.6 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Badly fouled systems must be cleaned before treatment is begun.

Subsequent Dose: When microbial control is evident, add the appropriate amount of chloramine to the system to obtain a 1 – 10 ppm total chlorine residual.

C. CONTINUOUS FEED METHOD

Initial Dose: When the system is noticeably fouled, add the appropriate amount of chloramine to the system to obtain 1 to 10 ppm total available chlorine. The chloramine dosage is achieved by mixing 0.6 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Badly fouled systems must be cleaned before treatment is begun.

Subsequent Dosage: Maintain this treatment level by starting a continuous feed of chloramine to maintain a 1 to 10 ppm total chlorine residual.

PRODUCT IS NOT REGULATED DURING TRANSPORTATION

Note to reviewer: Text in brackets [ ] is considered optional text. The optional statement "Not Approved for California" may be added to other use sites as required by CDPR.

INDUSTRIAL WATER SYSTEMS:
Nalco 60620 is used for the control of algal, bacterial and fungal deposits in industrial cooling towers, recirculating cooling water systems, evaporative condensers, influent water systems, industrial fresh water systems, airwashers, seawater desalination and reverse osmosis systems [(Not Approved for California)], paint spray booth sumps, ponds used for cooling purposes, sewage and wastewater systems [(Not Approved for California)]. This product is also used for the control of algae, bacteria, fungi and [mollusks – NOT APPROVED FOR CALIFORNIA] in both seawater and freshwater influent systems.

When this product is used to treat sewage and wastewater systems, seawater, and freshwater influent systems for once-through industrial water systems [(Not Approved for California)], and seawater desalination and reverse osmosis systems, and the system water is not sent to a POTW; residual levels of chloramine in the effluent must be monitored and neutralized using on-line monitoring and control equipment.

When this product is used to treat recirculating cooling water systems, evaporative condensers, influent water systems (not part of once-through industrial water systems), airwashers, paint spray booth sumps,–ponds used for cooling purposes; effluent detection of chloramine should be conducted at least once per shift. If chloramine is detected in the effluent, it can be neutralized by the addition of sodium metabisulfite until the chloramine is no longer detected.

Dosage Rates: When noticeably fouled, apply sufficient product and sodium hypochlorite to achieve a total chlorine residual of at least 1 ppm in excess of the system oxidant demand. Once control is achieved, treatment rates can be reduced to sub-demand rates from 50% to 80% of system demand. The product may be added to the system continuously or intermittently as needed to any area of the system where uniform mixing can be obtained.

For intermittent treatment: The chloramine dosage is typically achieved by mixing 0.6 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Apply the solution at a rate to obtain 1 to 2 ppm in excess of the system oxidant demand (maximum of 5 ppm measured) as total chlorine in the water being treated for 5 to 60 minutes every 1 to 6 hours. The frequency of feeding and the duration of treatment will depend on the severity of the problem. Badly fouled systems must be cleaned before initial treatment.

For continuous treatment: The chloramine dosage is typically achieved by mixing 0.6 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Apply the solution at a rate to obtain 0.5 to 1 ppm in excess of the system oxidant demand (maximum of 5 ppm measured) as total chlorine in the water being treated on a continuous basis. The frequency of feeding and the duration of treatment will depend on the severity of the problem. Badly fouled systems must be cleaned before initial treatment.

ACCEPTED
01/12/2016
Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under
EPA Reg. No. 1706-240

PRODUCT IS NOT REGULATED DURING TRANSPORTATION

NALCO
An Ecolab Company

Linda Fane
Senior Manager, Commercial Biocides

1601 W. DIEHL ROAD
NAPERVILLE, IL 60563-1198
lfane@nalco.com

T 630 305 1455
F 630 305 2945

September 10, 2015

Document Processing Desk (AMEND)
Office of Pesticide Programs (7510P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

Attention: Julie Chao
Product Manager 33
Antimicrobials Division

Subject: **Label Amendment** – Addition of "Not Approved For California" to use site
Product: Nalco 60620 (EPA Reg. No. 1706-240)

Dear Ms. Chao:

Nalco Company is submitting a label amendment to add "Not Approved For California" after specific language in the "Industrial Water Systems" use site.

In support of this notification I have included:
1. The EPA Application Form (EPA Form 8570-1)
2. One copy of the revised label with the language highlighted in yellow

If you have any questions, please contact me at 630-305-1455.

Regards,

Linda J. Fane
Senior Manager
Regulatory Affairs

Please read instructions on reverse before c 'eting form. Form Approv OMB No. 2070-0060, Approval expires 2-28-95

EPA	United States **Environmental Protection Agency** Washington, DC 20460	☐ **Registration** ☒ **Amendment** ☐ **Other**	OPP Identifier Number

Application for Pesticide – Section I

1. Company/Product Number **1706-240**	2. EPA Product Manager **Julie Chao**	3. Proposed Classification ☒ None ☐ Restricted
4. Company/Product (Name) **Nalco 60620**	PM# **33**	
5. Name and Address of Applicant *(Include ZIP Code)* Nalco, an Ecolab Company 1601 West Diehl Road Naperville, IL 60563 ☐ *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. Nos. Product Names	

Section - II

☒ Amendment – Explain below.
☐ Resubmission in response to Agency letter dated _____
☐ Notification – Explain Below.
☐ Final printed labels in response to Agency letter dated
☐ "Me Too" Application
☐ Other – Explain Below.

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

Nalco is submitting a label amendment to add "Not Approved for California" as optional text for specific use sites.

Section - III

1. Material This Product Will Be Packaged In:

Child-Resistant Packaging	Unit Packaging		Water Soluble Packaging		2. Type of Container
☐ Yes ☒ No	☐ Yes ☒ No		☐ Yes ☒ No		☒ Metal ☒ Plastic ☐ Glass ☐ Paper ☐ Other (Specify) _____
**** Certification must be submitted***	If "Yes" Unit Packaging wgt.	No. per Container	If "Yes" Packaging wgt.	No. per Container	

3. Location of Net Contents Information	4. Size(s) Retail Container:	5. Location of Label Directions
☐ Label ☒ Container	275 Gallon plastic tote, 400 Gallon stainless steel tote, bulk	☒ On Label ☐ On Labeling accompanying product

6. Manner in Which Label is Affixed to Product ☐ Lithograph ☒ Paper Glued ☐ Other _____ ☐ Stenciled

Section - IV

1. Contact Point *(Complete items directly below for identification of individual to be contacted, if necessary, to process this application..)*

Name	Title	Telephone No (Include Area Code)
Linda J. Fane	Senior Manager	630-305-1455

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

2. Signature Linda J Fane	3. Title Senior Manager	6. Date Application Received **(Stamped)**
4. Typed Name Linda J. Fane	5. Date September 10, 2015	

PROCESSING REQUEST

Reg # 1706-240 **Decision #**

Description:

Material Available Electronically (see PPLS):

☑ Electronic Label/Letter Dated

☐ Other:

Material Sent (see jacket):

☑ Stamped Label/Letter Dated

☐ Notification Dated

☐ New CSF(s) Dated

☐ Other:

File this coversheet and attached materials in the jacket. It must be well organized and clipped together, NOT STAPLED. Then give the jacket with the coversheet and materials to staff in the Information Services Center (ISC) (Room S-4900). If a jacket is full or only available as an image, please file materials in a new jacket and bring it down to the (ISC). For further information please call 703-605-0716.

Reviewer: D. Copeland

Division:

Phone: **Date:** 6/25/15

NALCO
An Ecolab Company

Linda Fane
Senior Manager, Commercial Biocides

1601 W. DIEHL ROAD
NAPERVILLE, IL 60563-1198
lfane@nalco.com

T 630 305 1455
F 630 305 2945

September 3, 2015

Document Processing Desk (FPL)
Office of Pesticide Programs (7510P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

Attention: Velma Noble
Team 31
Antimicrobials Division

Subject: **Final Printed Label**

Product: Nalco 60620 (EPA Reg. No. 1706-240)

Dear Ms. Noble:

Nalco is submitting a final printed label for Nalco 60620 as per the EPA letter dated June 24, 2015.

Attached are the following documents:

1. Application Form (8570-1)
2. Final printed label
3. Agency letter dated June 24, 2015

If you have any questions, please contact me at 630-305-1455.

Regards,

Linda J. Fane
Senior Manager
Regulatory Affairs

Please read instructions on reverse before *pleting form.* Form Appro OMB No. 2070-0060, Approval expires 2-28-95

EPA United States **Environmental Protection Agency** Washington, DC 20460

☐ **Registration** ☐ **Amendment** ☒ **Other**

OPP Identifier Number

Application for Pesticide – Section I

1. Company/Product Number **1706-240**	2. EPA Product Manager **Velma Noble**	3. Proposed Classification ☒ None ☐ Restricted
4. Company/Product (Name) **Nalco 60620**	PM# **31**	
5. Name and Address of Applicant *(Include ZIP Code)* Nalco, an Ecolab Company 1601 West Diehl Road Naperville, IL 60563 ☐ *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. Nos. Product Names	

Section - II

☐ Amendment – Explain below.
☐ Resubmission in response to Agency letter dated _____
☐ Notification – Explain Below.
☒ Final printed labels in response to Agency letter dated June 24, 2015
☐ "Me Too" Application
☐ Other – Explain Below.

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

Submission of final printed label for Nalco 60620 in response to the Agency letter dated June 24, 2015.

Section - III

1. Material This Product Will Be Packaged In:

Child-Resistant Packaging	Unit Packaging		Water Soluble Packaging		2. Type of Container
☐ Yes ☒ No **** Certification must be submitted***	☐ Yes ☒ No If "Yes" Unit Packaging wgt.	No. per Container	☐ Yes ☒ No If "Yes" Packaging wgt.	No. per Container	☒ Metal ☒ Plastic ☐ Glass ☐ Paper ☐ Other (Specify) _____

3. Location of Net Contents Information	4. Size(s) Retail Container:	5. Location of Label Directions
☐ Label ☒ Container	275 Gallon plastic tote, 400 Gallon stainless steel tote, bulk	☒ On Label ☐ On Labeling accompanying product

6. Manner in Which Label is Affixed to Product ☐ Lithograph ☒ Paper Glued ☐ Stenciled ☐ Other _____

Section - IV

1. Contact Point *(Complete items directly below for identification of individual to be contacted, if necessary, to process this application..)*

Name	Title	Telephone No. (Include Area Code)
Linda J. Fane	Senior Manager	630-305-1455

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

2. Signature Linda Fane	3. Title Senior Manager	6. Date Application Received **(Stamped)**
4. Typed Name Linda J. Fane	5. Date 9-3-2015	

EPA Form 8570-1 (Rev. 3-94) Previous editions are obsolete. **White – EPA File Copy (original)** **Yellow – Applicant copy**

ARY STATEMENTS:
S AND DOMESTIC ANIMALS

l through the skin. May cause irritation to the eyes and skin. ith adequate ventilation. Wear protective eyewear (goggles, and protective gloves (rubber, chemical resistant) when sh clothing before reuse. Wash thoroughly with soap and wing gum, using tobacco or using the toilet.

ENTAL HAZARDS

ns. Do not discharge effluent containing this product into waters unless in accordance with the requirements of a PDES) permit and the permitting authority has been notified effluent containing this product to sewer systems without nt authority. For guidance, contact your State Water Board

CHEMICAL HAZARDS

rite solutions and other strong oxidizing and alkali chemicals chemicals or materials solutions following the Directions for

AND DISPOSAL

and disposal. Open dumping is prohibited.

ghtly closed. Store in a dry place. Leaking or damaged r for disposal. Spills should be contained and cleaned using andfill.

are toxic. Improper disposal of excess pesticide, spray If these wastes cannot be disposed of by use according to Environmental Control Agency, or the Hazardous Waste r guidance.

tainer. Refill this container with pesticide only. Do not g the container before final disposal is the responsibility of ore refilling is the responsibility of the refiller. To clean the contents from this container into application equipment or vith water. Agitate vigorously or recirculate water with the lication equipment or rinsate collection system. Repeat this recycling, if available, or reconditioning, or puncture and e approved by state and local authorities.

a manner inconsistent with its labeling.

lco 60620 must be used in conjunction with: 1) an EPA roduce chloramine; and 2) the OxiPRO delivery system at a very system can be configured for a primary or secondary ntative will determine which OxiPRO delivery system stem.

d in a specially designed OxiPRO system that produces the ded to achieve a minimum molar ratio of 0.5 to 1.0 Nalco amine is typically achieved by mixing 0.6 gallons of Nalco .5%). The OxiPRO delivery system controller ensures the ion, controls the optimization of the production process, and requiring treatment. The design, treatment, installation, all plants is to be conducted only by authorized and trained

ar to the instructions below, or without the supervision of

alco 60620 and the sodium hypochlorite. Non-authorized handling the feeding system or its chemical ingredients.

SRC
SHER
1005

NALCO

NALCO® 60620

A MICROORGANISM CONTROL CHEMICAL

ACTIVE INGREDIENT:
Ammonium Sulfate..... 20.0%
INERT INGREDIENTS:..... 80.0%
TOTAL:.....100.0%

EPA Reg. No. 1706-240

EPA Est. No. 1706-IL-1 (BP) EPA Est. No. 1706-WA-1 (VW)
EPA Est. No. 1706-PA-1 (EL) EPA Est. No. 1706-LA-2 (PL)

Letter in () that matches first letter in batch number identifies the establishment number.

KEEP OUT OF REACH OF CHILDREN
CAUTION

FIRST AID

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 a doctor for treatment advice.
IF IN EYES: Hold eyes 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 a doctor for treatment advice.
IF INHALED: Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or a doctor for treatment advice.

NOTE: Have the product container or label with you when calling a poison control center or a doctor, or going for treatment.

SEE LEFT SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

Nalco Company
1601 West Diehl Road
Naperville, IL 60563-1198
EMERGENCY PHONE NO. (800) 424-9300

NET CONTENTS SHOWN ELSEWHERE ON CONTAINER

PRODUCT IS NOT REGULATED DURING TRANSPORTATION

DIRECTIONS FOR USE (cont'd)

PULP AND PAPERMILL WATER SYSTEMS AND PRODUCTION OF FIBERGLASS

Dosage Rates: When the system is noticeably fouled, apply sufficient Nalco 60620 and sodium hypochlorite to achieve a chlorine residual in excess of the system oxidant demand. The chloramine solution produced by the delivery system is immediately added to the process waters for which treatment is required. The chloramine solution may be added to any point of uniform mixing. Addition may be continuous or intermittent depending on the severity of the contamination when treatment starts, and on other system operation parameters.

A. SLUG FEED METHOD
Initial Dose: When the system is noticeably fouled, add the appropriate amount of chloramine to the system to obtain from 1 to 10 ppm total available chlorine. The chloramine dosage is achieved by mixing 0.6 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Repeat until control is achieved. Badly fouled systems must be cleaned before treatment is begun.

Subsequent Dose: When microbial control is evident, add the appropriate amount of chloramine to the system daily, or as needed to maintain control and keep the total chlorine residual at 1 to 10 ppm.

B. INTERMITTENT FEED METHOD
Initial Dose: When the system is noticeably fouled, add the appropriate amount of chloramine to the system to obtain from 1 to 10 ppm total available chlorine. The chloramine dosage is achieved by mixing 0.6 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Badly fouled systems must be cleaned before treatment is begun.

Subsequent Dose: When microbial control is evident, add the appropriate amount of chloramine to the system to obtain a 1 – 10 ppm total chlorine residual.

C. CONTINUOUS FEED METHOD
Initial Dose: When the system is noticeably fouled, add the appropriate amount of chloramine to the system to obtain 1 to 10 ppm total available chlorine. The chloramine dosage is achieved by mixing 0.6 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Badly fouled systems must be cleaned before treatment is begun.

Subsequent Dosage: Maintain this treatment level by starting a continuous feed of chloramine to maintain a 1 to 10 ppm total chlorine residual.

INDUSTRIAL WATER SYSTEMS:

Nalco 60620 is used for the control of algal, bacterial and fungal deposits in industrial cooling towers, recirculating cooling water systems, evaporative condensers, influent water systems, industrial fresh water systems, airwashers, seawater desalination and reverse osmosis systems, paint spray booth sumps, ponds used for cooling purposes, sewage and wastewater systems. This product is also used for the control of algae, bacteria, fungi and mollusks in both seawater and freshwater influent systems.

When this product is used to treat sewage and wastewater systems, seawater, and freshwater influent systems for once-through industrial water systems, and seawater desalination and reverse osmosis systems, and the system water is not sent to a POTW; residual levels of chloramine in the effluent must be monitored and neutralized using on-line monitoring and control equipment.

When this product is used to treat recirculating cooling water systems, evaporative condensers, influent water systems (not part of once-through industrial water systems), airwashers, paint spray booth sumps, ponds for cooling purposes; effluent detection of chloramine should be conducted at least once per shift. If chlor is detected in the effluent, it can be neutralized by the addition of sodium metabisulfite until the chloramine is no longer detected.

Dosage Rates: When noticeably fouled, apply sufficient product and sodium hypochlorite to achieve a total chlorine residual of at least 1 ppm in excess of the system oxidant demand. Once control is achieved, treatment rates can be reduced to sub-demand rates from 50% to 80% of system demand. The product may be added to the system continuously or intermittently as needed to any area of the system where uniform mixing can be obtained.

For intermittent treatment: The chloramine dosage is typically achieved by mixing 0.6 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Apply the solution at a rate to obtain 1 to 2 ppm in excess of the system oxidant demand (maximum of 5 ppm measured) as total chlorine in the water being treated for 5 to 60 minutes every 1 to 6 hours. The frequency of feeding and the duration of treatment will depend on the severity of the problem. Badly fouled systems must be cleaned before initial treatment.

For continuous treatment: The chloramine dosage is typically achieved by mixing 0.6 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Apply the solution at a rate to obtain 0.5 to 1 ppm in excess of the system oxidant demand (maximum of 5 ppm measured) as total chlorine in the water being treated on a continuous basis. The frequency of feeding and the duration of treatment will depend on the severity of the problem. Badly fouled systems must be cleaned before initial treatment.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460
OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

June 24, 2015

Linda J. Fran
Senior Manager
Nalco, Ecolab Company
1601 West Diehl Road
Naperville, IL 60563

Subject: Label Amendment – Modify the blending ratios for the product
Product Name: Nalco 60620
EPA Registration Number: 1706-240
Application Date: April 2, 2015
Decision Number: 503453

Dear Ms. Fran:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

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.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance

with FIFRA section 6. If you have any questions, please contact Drusilla Copeland by phone at 703-308-6224, or via email at copeland.drusilla@epa.gov.

Sincerely,

Drusilla Copeland for

Velma Noble
Product Manager 31
Regulatory Management Branch I
Antimicrobials Division (7510P)
Office of Pesticide Programs

Enclosure

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460
OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

June 24, 2015

Linda J. Fran
Senior Manager
Nalco, Ecolab Company
1601 West Diehl Road
Naperville, IL 60563

Subject: Label Amendment – Modify the blending ratios for the product
Product Name: Nalco 60620
EPA Registration Number: 1706-240
Application Date: April 2, 2015
Decision Number: 503453

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A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

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.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance

with FIFRA section 6. If you have any questions, please contact Drusilla Copeland by phone at 703-308-6224, or via email at copeland.drusilla@epa.gov.

Sincerely,

Drusilla Copeland for

Velma Noble
Product Manager 31
Regulatory Management Branch I
Antimicrobials Division (7510P)
Office of Pesticide Programs

Enclosure

PRECAUTIONARY STATEMENTS: HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed or absorbed through the skin. May cause irritation to the eyes and skin. Do not get in eyes, on skin, or on clothing. Use with adequate ventilation. Wear protective eyewear (goggles, face shield or safety glasses), protective clothing and protective gloves (rubber, chemical resistant) when handling. Remove contaminated clothing and wash clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic organisms. 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.

PHYSICAL AND CHEMICAL HAZARDS

Direct mixing of this product with sodium hypochlorite solutions and other strong oxidizing and alkali chemicals will release hazardous gases. Only mix with other chemicals or materials solutions following the Directions for Use of this product.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Keep container tightly closed. Store in a dry place. Leaking or damaged containers should be placed in an overpack container for disposal. Spills should be contained and cleaned using an absorbent material and disposed of in a sanitary landfill.

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.

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.

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 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.

NET CONTENTS SHOWN ELSEWHERE ON CONTAINER

NALCO

NALCO® 60620

A MICROORGANISM CONTROL CHEMICAL

ACTIVE INGREDIENT:
Ammonium Sulfate.....20.0%
INERT INGREDIENTS:.....80.0%
TOTAL:.....100.0%

EPA Reg. No. 1706-240

EPA Est. No. 1706-IL-1 (BP)
EPA Est. No. 1706-PA-1 (EL)
EPA Est. No. 1706-WA-1 (VW)
EPA Est. No. 1706-LA-2 (PL)

Letter in () that matches first letter in batch number identifies the establishment number.

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID

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 a doctor for treatment advice.

IF IN EYES: Hold eyes 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 a doctor for treatment advice.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or a doctor for treatment advice.

NOTE: Have the product container or label with you when calling a poison control center or a doctor, or going for treatment.

SEE LEFT SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

Nalco Company
1601 West Diehl Road
Naperville, IL 60563-1198
EMERGENCY PHONE NO. (800) 424-9300

ACCEPTED
6/24/2015
Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under
EPA Reg. No. 1706-240

PRODUCT IS NOT REGULATED DURING TRANSPORTATION

DIRECTIONS FOR USE

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

For the control of bacteria, algae and fungi. Nalco 60620 must be used in conjunction with: 1) an EPA registered sodium hypochlorite product (12.5%) to produce chloramine; and 2) the OxiPRO delivery system at a pH of ≥8.5 as described below. The OxiPRO delivery system can be configured for a primary or secondary dilution strategy. Your Nalco technical representative will determine which OxiPRO delivery system configuration is appropriate for treatment of your system.

Nalco 60620 and the sodium hypochlorite are mixed in a specially designed OxiPRO system that produces the chloramine solution on site. The products are blended to achieve a minimum molar ratio of 0.5 to 1.0 Nalco 60620 to sodium hypochlorite (12.5%). The chloramine is typically achieved by mixing 0.6 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). The OxiPRO delivery system controller ensures the automatic production of the dilute chloramine solution, controls the optimization of the production process, and ensures adequate dosing into the water system requiring treatment. The design, treatment, installation, calibration, and operation of the feeding system in all plants is to be conducted only by authorized and trained personnel.

Use of this product for any other purpose or contrary to the instructions below, or without the supervision of authorized trained personnel is prohibited.

Note: Do not use other feeding modes to mix Nalco 60620 and the sodium hypochlorite. Non-authorized personnel are prohibited from operating or otherwise handling the feeding system or its chemical ingredients.

PULP AND PAPERMILL WATER SYSTEMS AND PRODUCTION OF FIBERGLASS

Dosage Rates: When the system is noticeably fouled, apply sufficient Nalco 60620 and sodium hypochlorite to achieve a chlorine residual in excess of the system oxidant demand. The chloramine solution produced by the delivery system is immediately added to the process waters for which treatment is required. The chloramine solution may be added to any point of uniform mixing. Addition may be continuous or intermittent depending on the severity of the contamination when treatment starts, and on other system operation parameters.

A. SLUG FEED METHOD

Initial Dose: When the system is noticeably fouled, add the appropriate amount of chloramine to the system to obtain from 1 to 10 ppm total available chlorine. The chloramine dosage is achieved by mixing 0.6 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Repeat until control is achieved. Badly fouled systems must be cleaned before treatment is begun.

Subsequent Dose: When microbial control is evident, add the appropriate amount of chloramine to the system daily, or as needed to maintain control and keep the total chlorine residual at 1 to 10 ppm.

B. INTERMITTENT FEED METHOD

Initial Dose: When the system is noticeably fouled, add the appropriate amount of chloramine to the system to obtain from 1 to 10 ppm total available chlorine. The chloramine dosage is achieved by mixing 0.6 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Badly fouled systems must be cleaned before treatment is begun.

Subsequent Dose: When microbial control is evident, add the appropriate amount of chloramine to the system to obtain a 1 – 10 ppm total chlorine residual.

C. CONTINUOUS FEED METHOD

Initial Dose: When the system is noticeably fouled, add the appropriate amount of chloramine to the system to obtain 1 to 10 ppm total available chlorine. The chloramine dosage is achieved by mixing 0.6 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Badly fouled systems must be cleaned before treatment is begun.

Subsequent Dosage: Maintain this treatment level by starting a continuous feed of chloramine to maintain a 1 to 10 ppm total chlorine residual.

INDUSTRIAL WATER SYSTEMS:
Nalco 60620 is used for the control of algal, bacterial and fungal deposits in industrial cooling towers, recirculating cooling water systems, evaporative condensers, influent water systems, industrial fresh water systems, airwashers, seawater desalination and reverse osmosis systems, paint spray booth sumps, ponds used for cooling purposes, sewage and wastewater systems. This product is also used for the control of algae, bacteria, fungi and [mollusks – NOT APPROVED FOR CALIFORNIA] in both seawater and freshwater influent systems.

When this product is used to treat sewage and wastewater systems, seawater, and freshwater influent systems for once-through industrial water systems, and seawater desalination and reverse osmosis systems, and the system water is not sent to a POTW; residual levels of chloramine in the effluent must be monitored and neutralized using on-line monitoring and control equipment.

When this product is used to treat recirculating cooling water systems, evaporative condensers, influent water systems (not part of once-through industrial water systems), airwashers, paint spray booth sumps,–ponds used for cooling purposes; effluent detection of chloramine should be conducted at least once per shift. If chloramine is detected in the effluent, it can be neutralized by the addition of sodium metabisulfite until the chloramine is no longer detected.

Dosage Rates: When noticeably fouled, apply sufficient product and sodium hypochlorite to achieve a total chlorine residual of at least 1 ppm in excess of the system oxidant demand. Once control is achieved, treatment rates can be reduced to sub-demand rates from 50% to 80% of system demand. The product may be added to the system continuously or intermittently as needed to any area of the system where uniform mixing can be obtained.

For intermittent treatment: The chloramine dosage is typically achieved by mixing 0.6 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Apply the solution at a rate to obtain 1 to 2 ppm in excess of the system oxidant demand (maximum of 5 ppm measured) as total chlorine in the water being treated for 5 to 60 minutes every 1 to 6 hours. The frequency of feeding and the duration of treatment will depend on the severity of the problem. Badly fouled systems must be cleaned before initial treatment.

For continuous treatment: The chloramine dosage is typically achieved by mixing 0.6 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Apply the solution at a rate to obtain 0.5 to 1 ppm in excess of the system oxidant demand (maximum of 5 ppm measured) as total chlorine in the water being treated on a continuous basis. The frequency of feeding and the duration of treatment will depend on the severity of the problem. Badly fouled systems must be cleaned before initial treatment.

PRODUCT IS NOT REGULATED DURING TRANSPORTATION

Copeland, Drusilla

From: Fane, Linda <lfane@nalco.com>
Sent: Tuesday, June 23, 2015 3:30 PM
To: Copeland, Drusilla
Subject: RE: 1706-240

Hi Drusilla,

As requested, please find the application ratios in a chart form.

Mole Ratio ($60620:Cl_2$)	Moles		Volume Ratio (gallons)	
	60620	Sodium Hypochlorite (12.5%)	60620	Sodium Hypochlorite (12.5%)
0.5:1.0	1.6	3.2	0.6	1

Please let me know if you have any questions.

Thank you!

Linda J. Fane
Senior Manager
GLOBAL REGULATORY AFFAIRS

NALCO| An Ecolab Company 1601 W DIEHL RD, NAPERVILLE, IL 60563
T 630 305 1455 **F** 630 305 2985 **E** lfane@nalco.com

From: Copeland, Drusilla [mailto:Copeland.Drusilla@epa.gov]
Sent: Monday, June 22, 2015 1:49 PM
To: Fane, Linda
Subject: 1706-240

Hello, I am working this application and I need more information. Send the ratios that you are using per gallon. Some type of chart to break this application down.

Drusilla Copeland
Environmental Protection Specialist
Voice: 703 308-6224
Fax: 703 308-8481
copeland.drusilla@epa.gov

Pages 138-140 - *Claimed confidential by submitter*

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

April 13, 2015

Linda J. Fane
Nalco Company
1601 West Diehl Road
Naperville, IL 60563

Subject: Notification per PRN 98-10 – Final Label
Product Name: Nalco 60620
EPA Registration Number: 1706-240
Application Date: 4/6/2015
Decision Number: 497574

Dear Linda J. Fane:

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.

If you have any questions, you may contact Elizabeth Watkins at 703-347-0241 or via email at watkins.elizabeth@epa.gov.

NALCO
An Ecolab Company

Linda Fane
Senior Manager, Commercial Biocides

1601 W. DIEHL ROAD
NAPERVILLE, IL 60563-1198
lfane@nalco.com

T 630 305 1455
F 630 305 2945

April 6, 2015

Document Processing Desk (FPL)
Office of Pesticide Programs (7510P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

Attention: Elizabeth Watkins
Team 33
Antimicrobials Division

Subject: **Final Printed Label**

Product: Nalco 60620 (EPA Reg. No. 1706-240)

Dear Ms. Watkins:

Nalco is submitting a final printed label for Nalco 60620 in response to the EPA letter dated August 27, 2014.

Attached are the following documents:

1. Application Form (8570-1)
2. Final printed label
3. Agency letter dated August 27, 2015

If you have any questions, please contact me at 630-305-1455.

Regards,

Linda J. Fane
Senior Manager, Regulatory Affairs
630-305-1455
lfane@nalco.com

Please read instructions on reverse ore completing form. For proved. OMB No. 2070-0060, Approval expires 2-28-95

EPA	United States **Environmental Protection Agency** Washington, DC 20460	☐ **Registration** ☐ **Amendment** ☒ **Other**	OPP Identifier Number

Application for Pesticide – Section I

1. Company/Product Number **1706-240**	2. EPA Product Manager **Elizabeth Watkins**	3. Proposed Classification ☒ None ☐ Restricted
4. Company/Product (Name) **Nalco 60620**	PM# **33**	
5. Name and Address of Applicant *(Include ZIP Code)* Nalco, an Ecolab Company 1601 West Diehl Road Naperville, IL 60563 ☐ *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. Nos. Product Names	

Section - II

☐ Amendment – Explain below.
☐ Resubmission in response to Agency letter dated _____
☐ Notification – Explain Below.
☒ Final printed labels in response to Agency letter dated 8-27-14
☐ "Me Too" Application
☐ Other – Explain Below.

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

Nalco is submitting a final printed label for Nalco 60620 in response to the EPA letter dated August 27, 2014.

Section - III

1. Material This Product Will Be Packaged In:

Child-Resistant Packaging	Unit Packaging		Water Soluble Packaging		2. Type of Container
☐ Yes ☒ No	☐ Yes ☒ No		☐ Yes ☒ No		☒ Metal ☒ Plastic ☐ Glass ☐ Paper ☐ Other (Specify) _____
**** Certification must be submitted***	If "Yes" Unit Packaging wgt.	No. per Container	If "Yes" Packaging wgt.	No. per Container	

3. Location of Net Contents Information	4. Size(s) Retail Container:	5. Location of Label Directions
☐ Label ☒ Container	275 Gallon plastic tote, 400 Gallon stainless steel tote, bulk	☒ On Label ☐ On Labeling accompanying product

6. Manner in Which Label is Affixed to Product ☐ Lithograph ☒ Paper Glued ☐ Other _____ ☐ Stenciled

Section - IV

1. Contact Point *(Complete items directly below for identification of individual to be contacted, if necessary, to process this application..)*

Name	Title	Telephone No. (Include Area Code)
Linda J. Fane	Senior Manager	630-305-1455

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

2. Signature Linda Fane	3. Title Senior Manager	6. Date Application Received **(Stamped)**
4. Typed Name Linda J. Fane	5. Date April 6, 2015	

PRECAUTIONARY STATEMENTS:
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed or absorbed through the skin. May cause irritation to the eyes and skin. Do not get in eyes, on skin, or on clothing. Use with adequate ventilation. Wear protective eyewear (goggles, face shield or safety glasses), protective clothing and protective gloves (rubber, chemical resistant) when handling. Remove contaminated clothing and wash clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic organisms. 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.

PHYSICAL AND CHEMICAL HAZARDS

Direct mixing of this product with sodium hypochlorite solutions and other strong oxidizing and alkali chemicals will release hazardous gases. Only mix with other chemicals or materials solutions following the Directions for Use of this product.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Keep container tightly closed. Store in a dry place. Leaking or damaged containers should be placed in an overpack container for disposal. Spills should be contained and cleaned using an absorbent material and disposed of in a sanitary landfill.

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.

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.

DIRECTIONS FOR USE

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

For the control of bacteria, algae and fungi. Nalco 60620 must be used in conjunction with: 1) an EPA registered sodium hypochlorite product (12.5%) to produce chloramine; and 2) the OxiPRO delivery system at a pH of ≥8.5 as described below. The OxiPRO delivery system can be configured for a primary or secondary dilution strategy. Your Nalco technical representative will determine which OxiPRO delivery system configuration is appropriate for treatment of your system.

Nalco 60620 and the sodium hypochlorite are mixed in a specially designed OxiPRO system that produces the chloramine solution on site. The products are blended to achieve a minimum molar ratio of 1.0-1.2 to 1.0 Nalco 60620 to sodium hypochlorite (12.5%). The chloramine is typically achieved by mixing 1.5 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). The OxiPRO delivery system controller ensures the automatic production of the dilute chloramine solution, controls the optimization of the production process, and ensures adequate dosing into the water system requiring treatment. The design, treatment, installation, calibration, and operation of the feeding system in all plants is to be conducted only by authorized and trained personnel.

Use of this product for any other purpose or contrary to the instructions below, or without the supervision of authorized trained personnel is prohibited.

Note: Do not use other feeding modes to mix Nalco 60620 and the sodium hypochlorite. Non-authorized personnel are prohibited from operating or otherwise handling the feeding system or its chemical ingredients.

CRC KOSHER 1005

Revised 08/29/2014

NALCO

NALCO® 60620

A MICROORGANISM CONTROL CHEMICAL

ACTIVE INGREDIENT:
Ammonium Sulfate..... 20.0%
INERT INGREDIENTS:..... 80.0%
TOTAL:.....100.0%

EPA Reg. No. 1706-240

EPA Est. No. 1706-IL-1 (BP)
EPA Est. No. 1706-PA-1 (EL)
EPA Est. No. 1706-WA-1 (VW)
EPA Est. No. 1706-LA-2 (PL)

Letter in () that matches first letter in batch number identifies the establishment number.

KEEP OUT OF REACH OF CHILDREN
CAUTION

FIRST AID

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 a doctor for treatment advice.
IF IN EYES: Hold eyes 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 a doctor for treatment advice.
IF INHALED: Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or a doctor for treatment advice.

NOTE: Have the product container or label with you when calling a poison control center or a doctor, or going for treatment.

SEE LEFT SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

Nalco Company
1601 West Diehl Road
Naperville, IL 60563-1198
EMERGENCY PHONE NO. (800) 424-9300

NET CONTENTS SHOWN ELSEWHERE ON CONTAINER

DIRECTIONS FOR USE (cont'd)

PULP AND PAPERMILL WATER SYSTEMS AND PRODUCTION OF FIBERGLASS

Dosage Rates: When the system is noticeably fouled, apply sufficient Nalco 60620 and sodium hypochlorite to achieve a chlorine residual in excess of the system oxidant demand. The chloramine solution produced by the delivery system is immediately added to the process waters for which treatment is required. The chloramine solution may be added to any point of uniform mixing. Addition may be continuous or intermittent depending on the severity of the contamination when treatment starts, and on other system operation parameters.

A. SLUG FEED METHOD
Initial Dose: When the system is noticeably fouled, add the appropriate amount of chloramine to the system to obtain from 1 to 10 ppm total available chlorine. The chloramine dosage is achieved by mixing 1.5 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Repeat until control is achieved. Badly fouled systems must be cleaned before treatment is begun.

Subsequent Dose: When microbial control is evident, add the appropriate amount of chloramine to the system daily, or as needed to maintain control and keep the total chlorine residual at 1 to 10 ppm.

B. INTERMITTENT FEED METHOD
Initial Dose: When the system is noticeably fouled, add the appropriate amount of chloramine to the syste. obtain from 1 to 10 ppm total available chlorine. The chloramine dosage is achieved by mixing 1.5 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Badly fouled systems must be cleaned before treatment is begun.

Subsequent Dose: When microbial control is evident, add the appropriate amount of chloramine to the system to obtain a 1 – 10 ppm total chlorine residual.

C. CONTINUOUS FEED METHOD
Initial Dose: When the system is noticeably fouled, add the appropriate amount of chloramine to the system to obtain 1 to 10 ppm total available chlorine. The chloramine dosage is achieved by mixing 1.5 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Badly fouled systems must be cleaned before treatment is begun.

Subsequent Dosage: Maintain this treatment level by starting a continuous feed of chloramine to maintain a 1 to 10 ppm total chlorine residual.

INDUSTRIAL WATER SYSTEMS:

Nalco 60620 is used for the control of algal, bacterial and fungal deposits in industrial cooling towers, recirculating cooling water systems, evaporative condensers, influent water systems, industrial fresh water systems, airwashers, seawater desalination and reverse osmosis systems, paint spray booth sumps, ponds used for cooling purposes, sewage and wastewater systems. This product is also used for the control of algae, bacteria, fungi and mollusks in both seawater and freshwater influent systems.

When this product is used to treat sewage and wastewater systems, seawater, and freshwater influent systems for once-through industrial water systems, and seawater desalination and reverse osmosis systems, and the system water is not sent to a POTW; residual levels of chloramine in the effluent must be monitored neutralized using on-line monitoring and control equipment.

When this product is used to treat recirculating cooling water systems, evaporative condensers, influent water systems (not part of once-through industrial water systems), airwashers, paint spray booth sumps, ponds used for cooling purposes; effluent detection of chloramine should be conducted at least once per shift. If chloramine is detected in the effluent, it can be neutralized by the addition of sodium metabisulfite until the chloramine is no longer detected.

Dosage Rates: When noticeably fouled, apply sufficient product and sodium hypochlorite to achieve a total chlorine residual of at least 1 ppm in excess of the system oxidant demand. Once control is achieved, treatment rates can be reduced to sub-demand rates from 50% to 80% of system demand. The product may be added to the system continuously or intermittently as needed to any area of the system where uniform mixing can be obtained.

For intermittent treatment: The chloramine dosage is typically achieved by mixing 1.5 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Apply the solution at a rate to obtain 1 to 2 ppm in excess of the system oxidant demand (maximum of 5 ppm measured) as total chlorine in the water being treated for 5 to 60 minutes every 1 to 6 hours. The frequency of feeding and the duration of treatment will depend on the severity of the problem. Badly fouled systems must be cleaned before initial treatment.

For continuous treatment: The chloramine dosage is typically achieved by mixing 1.5 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Apply the solution at a rate to obtain 0.5 to 1 ppm in excess of the system oxidant demand (maximum of 5 ppm measured) as total chlorine in the water being treated on a continuous basis. The frequency of feeding and the duration of treatment will depend on the severity of the problem. Badly fouled systems must be cleaned before initial treatment.

PRODUCT IS NOT REGULATED DURING TRANSPORTATION

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

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

Ms. Linda J. Fane
Nalco Company
1601 West Diehl Road
Naperville, IL 60563-1198

AUG 27 2014

SUBJECT: Nalco 60620
EPA Registration Number: 1706-240
Application Dated: June 2, 2014
Receipt Date: June 3, 2014

Dear Ms. Fane:

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

- The label amendment to include the use site "Industrial Water Systems".

Submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.
A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. The next label printing of this product must use this labeling unless subsequent changes have been approved. You must submit one (1) copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and it's implementing regulation at 40 CFR 152.3.

If you have questions concerning this letter, please contact Eric Miederhoff at 703-347-8028.

Sincerely,

E. Miederhoff

Eric Miederhoff
Acting Product Manager (33)
Regulatory Management Branch I
Antimicrobials Division (7510P)

PRECAUTIONARY STATEMENTS: HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed or absorbed through the skin. May cause irritation to the eyes and skin. Do not get in eyes, on skin, or on clothing. Use with adequate ventilation. Wear protective eyewear (goggles, face shield or safety glasses), protective clothing and protective gloves (rubber, chemical resistant) when handling. Remove contaminated clothing and wash clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic organisms. 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.

PHYSICAL AND CHEMICAL HAZARDS

Direct mixing of this product with sodium hypochlorite solutions and other strong oxidizing and alkali chemicals will release hazardous gases. Only mix with other chemicals or materials solutions following the Directions for Use of this product.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Keep container tightly closed. Store in a dry place. Leaking or damaged containers should be placed in an overpack container for disposal. Spills should be contained and cleaned using an absorbent material and disposed of in a sanitary landfill.

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.

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.

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 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.

NET CONTENTS SHOWN ELSEWHERE ON CONTAINER

NALCO

NALCO® 60620

A MICROORGANISM CONTROL CHEMICAL

ACTIVE INGREDIENT:
Ammonium Sulfate.....20.0%
INERT INGREDIENTS:.....80.0%
TOTAL:.....100.0%

EPA Reg. No. 1706-240

EPA Est. No. 1706-IL-1 (BP) EPA Est. No. 1706-WA-1 (VW)
EPA Est. No. 1706-PA-1 (EL) EPA Est. No. 1706-LA-2 (PL)

Letter in () that matches first letter in batch number identifies the establishment number.

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID

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 a doctor for treatment advice.

IF IN EYES: Hold eyes 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 a doctor for treatment advice.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or a doctor for treatment advice.

NOTE: Have the product container or label with you when calling a poison control center or a doctor, or going for treatment.

SEE LEFT SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

Nalco Company
1601 West Diehl Road
Naperville, IL 60563-1198
EMERGENCY PHONE NO. (800) 424-9300

DIRECTIONS FOR USE

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

For the control of bacteria, algae and fungi. Nalco 60620 must be used in conjunction with: 1) an EPA registered sodium hypochlorite product (12.5%) to produce chloramine; and 2) the OxiPRO delivery system at a pH of ≥8.5 as described below. The OxiPRO delivery system can be configured for a primary or secondary dilution strategy. Your Nalco technical representative will determine which OxiPRO delivery system configuration is appropriate for treatment of your system.

Nalco 60620 and the sodium hypochlorite are mixed in a specially designed OxiPRO system that produces the chloramine solution on site. The products are blended to achieve a minimum molar ratio of 1.0-1.2 to 1.0 Nalco 60620 to sodium hypochlorite (12.5%). The chloramine is typically achieved by mixing 1.5 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). The OxiPRO delivery system controller ensures the automatic production of the dilute chloramine solution, controls the optimization of the production process, and ensures adequate dosing into the water system requiring treatment. The design, treatment, installation, calibration, and operation of the feeding system in all plants is to be conducted only by authorized and trained personnel.

Use of this product for any other purpose or contrary to the instructions below, or without the supervision of authorized trained personnel is prohibited.

Note: Do not use other feeding modes to mix Nalco 60620 and the sodium hypochlorite. Non-authorized personnel are prohibited from operating or otherwise handling the feeding system or its chemical ingredients.

PULP AND PAPERMILL WATER SYSTEMS AND PRODUCTION OF FIBERGLASS

Dosage Rates: When the system is noticeably fouled, apply sufficient Nalco 60620 and sodium hypochlorite to achieve a chlorine residual in excess of the system oxidant demand. The chloramine solution produced by the delivery system is immediately added to the process waters for which treatment is required. The chloramine solution may be added to any point of uniform mixing. Addition may be continuous or intermittent depending on the severity of the contamination when treatment starts, and on other system operation parameters.

A. SLUG FEED METHOD

Initial Dose: When the system is noticeably fouled, add the appropriate amount of chloramine to the system to obtain from 1 to 10 ppm total available chlorine. The chloramine dosage is achieved by mixing 1.5 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Repeat until control is achieved. Badly fouled systems must be cleaned before treatment is begun.

Subsequent Dose: When microbial control is evident, add the appropriate amount of chloramine to the system daily, or as needed to maintain control and keep the total chlorine residual at 1 to 10 ppm.

B. INTERMITTENT FEED METHOD

Initial Dose: When the system is noticeably fouled, add the appropriate amount of chloramine to the system to obtain from 1 to 10 ppm total available chlorine. The chloramine dosage is achieved by mixing 1.5 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Badly fouled systems must be cleaned before treatment is begun.

Subsequent Dose: When microbial control is evident, add the appropriate amount of chloramine to the system to obtain a 1 – 10 ppm total chlorine residual.

C. CONTINUOUS FEED METHOD

Initial Dose: When the system is noticeably fouled, add the appropriate amount of chloramine to the system to obtain 1 to 10 ppm total available chlorine. The chloramine dosage is achieved by mixing 1.5 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Badly fouled systems must be cleaned before treatment is begun.

Revised 06/02/2014
EPA Reg. # 1706-240
Page 1 of 2

PRODUCT IS NOT REGULATED DURING TRANSPORTATION

ACCEPTED
08/27/2014
Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under
EPA Reg. No. 1706-240

Subsequent Dosage: Maintain this treatment level by starting a continuous feed of chloramine to maintain a 1 to 10 ppm total chlorine residual.

INDUSTRIAL WATER SYSTEMS:
Nalco 60620 is used for the control of algal, bacterial and fungal deposits in industrial cooling towers, recirculating cooling water systems, evaporative condensers, influent water systems, industrial fresh water systems, airwashers, seawater desalination and reverse osmosis systems, paint spray booth sumps, ponds used for cooling purposes, sewage and wastewater systems. This product is also used for the control of algae, bacteria, fungi and mollusks in both seawater and freshwater influent systems.

When this product is used to treat sewage and wastewater systems, seawater, and freshwater influent systems for once-through industrial water systems, and seawater desalination and reverse osmosis systems, and the system water is not sent to a POTW, residual levels of chloramine in the effluent must be monitored and neutralized using on-line monitoring and control equipment.

When this product is used to treat recirculating cooling water systems, evaporative condensers, influent water systems (not part of once-through industrial water systems), airwashers, paint spray booth sumps, ponds used for cooling purposes, effluent detection of chloramine should be conducted at least once per shift. If chloramine is detected in the effluent, it can be neutralized by the addition of sodium metabisulfite until the chloramine is no longer detected.

Dosage Rates: When noticeably fouled, apply sufficient product and sodium hypochlorite to achieve a total chlorine residual of at least 1 ppm in excess of the system oxidant demand. Once control is achieved, treatment rates can be reduced to sub-demand rates from 50% to 80% of system demand. The product may be added to the system continuously or intermittently as needed to any area of the system where uniform mixing can be obtained.

For intermittent treatment: The chloramine dosage is typically achieved by mixing 1.5 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Apply the solution at a rate to obtain 1 to 2 ppm in excess of the system oxidant demand (maximum of 5 ppm measured) as total chlorine in the water being treated for 5 to 60 minutes every 1 to 6 hours. The frequency of feeding and the duration of treatment will depend on the severity of the problem. Badly fouled systems must be cleaned before initial treatment.

For continuous treatment: The chloramine dosage is typically achieved by mixing 1.5 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Apply the solution at a rate to obtain 0.5 to 1 ppm in excess of the system oxidant demand (maximum of 5 ppm measured) as total chlorine in the water being treated on a continuous basis. The frequency of feeding and the duration of treatment will depend on the severity of the problem. Badly fouled systems must be cleaned before initial treatment.

PRODUCT IS NOT REGULATED DURING TRANSPORTATION

Material Sent for Data Extraction

Reg # 1706-240

Description: _____

☑ Material(s) Sent to Data Extraction Contractors

- ☑ New Stamped Label Dated 08/27/2019
- ☐ Notification Dated _____
- ☐ New CSF(s) Dated _____
- ☐ Other: _____

☑ Decision #: 491842

☐ Other Action/Comments: _____

Attach this coversheet to the top of the material or jacket. It must be well organized and clipped together, NOT STAPLED. Then give the material with this coversheet to staff in the Information Services Center (Room S-4900).

Reviewer: E. Orgn

Phone: 347-0199 Division: AD

Date: _____

Created February 3, 2011

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

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

Ms. Linda J. Fane
Nalco Company
1601 West Diehl Road
Naperville, IL 60563-1198

AUG 27 2014

SUBJECT: Nalco 60620
EPA Registration Number: 1706-240
Application Dated: June 2, 2014
Receipt Date: June 3, 2014

Dear Ms. Fane:

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

- The label amendment to include the use site "Industrial Water Systems".

Submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.
A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. The next label printing of this product must use this labeling unless subsequent changes have been approved. You must submit one (1) copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and it's implementing regulation at 40 CFR 152.3.

If you have questions concerning this letter, please contact Eric Miederhoff at 703-347-8028.

Sincerely,

E. Miederhoff

Eric Miederhoff
Acting Product Manager (33)
Regulatory Management Branch I
Antimicrobials Division (7510P)

PRECAUTIONARY STATEMENTS: HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed or absorbed through the skin. May cause irritation to the eyes and skin. Do not get in eyes, on skin, or on clothing. Use with adequate ventilation. Wear protective eyewear (goggles, face shield or safety glasses), protective clothing and protective gloves (rubber, chemical resistant) when handling. Remove contaminated clothing and wash clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic organisms. 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.

PHYSICAL AND CHEMICAL HAZARDS

Direct mixing of this product with sodium hypochlorite solutions and other strong oxidizing and alkali chemicals will release hazardous gases. Only mix with other chemicals or materials solutions following the Directions for Use of this product.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Keep container tightly closed. Store in a dry place. Leaking or damaged containers should be placed in an overpack container for disposal. Spills should be contained and cleaned using an absorbent material and disposed of in a sanitary landfill.

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.

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.

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 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.

NET CONTENTS SHOWN ELSEWHERE ON CONTAINER

NALCO

NALCO® 60620

A MICROORGANISM CONTROL CHEMICAL

ACTIVE INGREDIENT:
Ammonium Sulfate.....20.0%
INERT INGREDIENTS:.....80.0%
TOTAL:.....100.0%

EPA Reg. No. 1706-240

EPA Est. No. 1706-IL-1 (BP)
EPA Est. No. 1706-PA-1 (EL)
EPA Est. No. 1706-WA-1 (VW)
EPA Est. No. 1706-LA-2 (PL)

Letter in () that matches first letter in batch number identifies the establishment number.

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID

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 a doctor for treatment advice.

IF IN EYES: Hold eyes 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 a doctor for treatment advice.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or a doctor for treatment advice.

NOTE: Have the product container or label with you when calling a poison control center or a doctor, or going for treatment.

SEE LEFT SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

Nalco Company
1601 West Diehl Road
Naperville, IL 60563-1198
EMERGENCY PHONE NO. (800) 424-9300

DIRECTIONS FOR USE

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

For the control of bacteria, algae and fungi. Nalco 60620 must be used in conjunction with: 1) an EPA registered sodium hypochlorite product (12.5%) to produce chloramine; and 2) the OxiPRO delivery system at a pH of ≥8.5 as described below. The OxiPRO delivery system can be configured for a primary or secondary dilution strategy. Your Nalco technical representative will determine which OxiPRO delivery system configuration is appropriate for treatment of your system.

Nalco 60620 and the sodium hypochlorite are mixed in a specially designed OxiPRO system that produces the chloramine solution on site. The products are blended to achieve a minimum molar ratio of 1.0-1.2 to 1.0 Nalco 60620 to sodium hypochlorite (12.5%). The chloramine is typically achieved by mixing 1.5 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). The OxiPRO delivery system controller ensures the automatic production of the dilute chloramine solution, controls the optimization of the production process, and ensures adequate dosing into the water system requiring treatment. The design, treatment, installation, calibration, and operation of the feeding system in all plants is to be conducted only by authorized and trained personnel.

Use of this product for any other purpose or contrary to the instructions below, or without the supervision of authorized trained personnel is prohibited.

Note: Do not use other feeding modes to mix Nalco 60620 and the sodium hypochlorite. Non-authorized personnel are prohibited from operating or otherwise handling the feeding system or its chemical ingredients.

PULP AND PAPERMILL WATER SYSTEMS AND PRODUCTION OF FIBERGLASS

Dosage Rates: When the system is noticeably fouled, apply sufficient Nalco 60620 and sodium hypochlorite to achieve a chlorine residual in excess of the system oxidant demand. The chloramine solution produced by the delivery system is immediately added to the process waters for which treatment is required. The chloramine solution may be added to any point of uniform mixing. Addition may be continuous or intermittent depending on the severity of the contamination when treatment starts, and on other system operation parameters.

A. SLUG FEED METHOD

Initial Dose: When the system is noticeably fouled, add the appropriate amount of chloramine to the system to obtain from 1 to 10 ppm total available chlorine. The chloramine dosage is achieved by mixing 1.5 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Repeat until control is achieved. Badly fouled systems must be cleaned before treatment is begun.

Subsequent Dose: When microbial control is evident, add the appropriate amount of chloramine to the system daily, or as needed to maintain control and keep the total chlorine residual at 1 to 10 ppm.

B. INTERMITTENT FEED METHOD

Initial Dose: When the system is noticeably fouled, add the appropriate amount of chloramine to the system to obtain from 1 to 10 ppm total available chlorine. The chloramine dosage is achieved by mixing 1.5 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Badly fouled systems must be cleaned before treatment is begun.

Subsequent Dose: When microbial control is evident, add the appropriate amount of chloramine to the system to obtain a 1 – 10 ppm total chlorine residual.

C. CONTINUOUS FEED METHOD

Initial Dose: When the system is noticeably fouled, add the appropriate amount of chloramine to the system to obtain 1 to 10 ppm total available chlorine. The chloramine dosage is achieved by mixing 1.5 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Badly fouled systems must be cleaned before treatment is begun.

Revised 06/02/2014
EPA Reg. # 1706-240

PRODUCT IS NOT REGULATED DURING TRANSPORTATION

ACCEPTED
08/27/2014
Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 1706-240

150

Subsequent Dosage: Maintain this treatment level by starting a continuous feed of chloramine to maintain a 1 to 10 ppm total chlorine residual.

INDUSTRIAL WATER SYSTEMS:
Nalco 60620 is used for the control of algal, bacterial and fungal deposits in industrial cooling towers, recirculating cooling water systems, evaporative condensers, influent water systems, industrial fresh water systems, airwashers, seawater desalination and reverse osmosis systems, paint spray booth sumps, ponds used for cooling purposes, sewage and wastewater systems. This product is also used for the control of algae, bacteria, fungi and mollusks in both seawater and freshwater influent systems.

When this product is used to treat sewage and wastewater systems, seawater, and freshwater influent systems for once-through industrial water systems, and seawater desalination and reverse osmosis systems, and the system water is not sent to a POTW; residual levels of chloramine in the effluent must be monitored and neutralized using on-line monitoring and control equipment.

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Dosage Rates: When noticeably fouled, apply sufficient product and sodium hypochlorite to achieve a total chlorine residual of at least 1 ppm in excess of the system oxidant demand. Once control is achieved, treatment rates can be reduced to sub-demand rates from 50% to 80% of system demand. The product may be added to the system continuously or intermittently as needed to any area of the system where uniform mixing can be obtained.

For Intermittent treatment: The chloramine dosage is typically achieved by mixing 1.5 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Apply the solution at a rate to obtain 1 to 2 ppm in excess of the system oxidant demand (maximum of 5 ppm measured) as total chlorine in the water being treated for 5 to 60 minutes every 1 to 6 hours. The frequency of feeding and the duration of treatment will depend on the severity of the problem. Badly fouled systems must be cleaned before initial treatment.

For continuous treatment: The chloramine dosage is typically achieved by mixing 1.5 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Apply the solution at a rate to obtain 0.5 to 1 ppm in excess of the system oxidant demand (maximum of 5 ppm measured) as total chlorine in the water being treated on a continuous basis. The frequency of feeding and the duration of treatment will depend on the severity of the problem. Badly fouled systems must be cleaned before initial treatment.

PRODUCT IS NOT REGULATED DURING TRANSPORTATION

NALCO
An Ecolab Company

Linda Fane
Senior Manager
1601 W. DIEHL ROAD
NAPERVILLE, IL 60563-1198
lfane@nalco.com

T 630 305 1455
F 630 305 2945

June 2, 2014

Document Processing Desk (AMEND)
Office of Pesticide Programs (7510P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

Attention: Velma Noble
Product Manager 31
Antimicrobials Division

Subject: **Label Amendment**

Product: Nalco 60620 (EPA Reg. No. 1706-240)

Dear Ms. Noble:

Nalco is submitting a label amendment for Nalco 60620 to include the use site "Industrial Water Systems". This use site is already approved by the Agency for Busan 1215 (EPA Reg. # 1448-433) which has the same active ingredient as Nalco 60620 which is also a precursor for monochloramine.

Enclosed please find:

- Application Form 8570-1
- Revised label with the new use language highlighted in yellow (5 copies)

If you have any questions, please contact me at 630-305-1455.

Regards,

Linda Fane

Linda J. Fane
Senior Manager/Regulatory Affairs

Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060, Approval expires 2-28-95

EPA	ed States Environmental Protection Agency Washington, DC 20460	☐ I istration ☒ Amendment ☐ Other	OPP Identifier Number

Application for Pesticide – Section I

1. Company/Product Number **1706-240**	2. EPA Product Manager **Velma Noble**	3. Proposed Classification ☒ None ☐ Restricted
4. Company/Product (Name) **Nalco 60620**	PM# **31**	
5. Name and Address of Applicant *(Include ZIP Code)* Nalco Company 1601 West Diehl Road Naperville, IL 60563 ☐ *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. Nos. **1448-433** Product Names **Busan 1215**	

Section - II

☒ Amendment – Explain below.
☐ Resubmission in response to Agency letter dated _____
☐ Notification – Explain Below.
☐ Final printed labels in response to Agency letter dated
☐ "Me Too" Application
☐ Other – Explain Below.

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

Label amendment to add the use site "Industrial Water Systems" to the label. This use site is already approved by the Agency for Busan 1215 (EPA Reg. 1448-433) which has the same active ingredient used to generate chloramine.

Section - III

1. Material This Product Will Be Packaged In:

Child-Resistant Packaging	Unit Packaging		Water Soluble Packaging		2. Type of Container
☐ Yes ☒ No	☐ Yes ☒ No		☐ Yes ☒ No		☒ Metal ☒ Plastic ☐ Glass ☐ Paper ☐ Other (Specify) _____
**** Certification must be submitted***	If "Yes" Unit Packaging wgt.	No. per Container	If "Yes" Packaging wgt.	No. per Container	

3. Location of Net Contents Information	4. Size(s) Retail Container:	5. Location of Label Directions
☐ Label ☒ Container	275 Gallon plastic tote, 400 Gallon stainless steel tote, bulk	☒ On Label ☐ On Labeling accompanying product

6. Manner in Which Label is Affixed to Product ☐ Lithograph ☒ Paper Glued ☐ Stenciled ☐ Other _____

Section - IV

1. Contact Point *(Complete items directly below for identification of individual to be contacted, if necessary, to process this application..)*

Name	Title	Telephone No. (Include Area Code)
Linda J. Fane	Senior Manager	630-305-1455

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

2. Signature Linda Fane	3. Title Senior Manager	6. Date Application Received **(Stamped)**
4. Typed Name Linda J. Fane	5. Date 6-2-2014	

Material Sent for Data Extraction

Reg # 1706-240

Description: _____

☐ Material(s) Sent to Data Extraction Contractors:

- ☐ New Stamped Label Dated _____
- ☐ Notification Dated _____
- ☐ New CSF(s) Dated _____
- ☐ Other: _____

☐ Decision #: _____

☐ Other Action/Comments: Science Rev

_____

Attach this coversheet to the top of the material or jacket. It must be well organized and clipped together, NOT STAPLED. Then give the material with this coversheet to staff in the Information Services Center (Room S-4900).

Reviewer: P M Team 31

Phone: 2033088032 Division: 4D

Date: 1/2/13

Created February 3, 2011

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

EPA United States Environmental Protection Agency **Office of Pesticide Programs**

Linda J. Fane,
Nalco Company,
1601 West Diehl Rd.,
Naperville, IL. 60563-1198

Jan - 8 20

SUBJECT: Nalco 60620
EPA Registration #: 1706-240
Application Date: 10/12/12
Receipt Date: 10/15/12
Submission # 925478

Dear Mrs. Fane:

The following amendment, submitted under the provisions of section 3(c)9 the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended is acceptable.

CONCLUSION:

The revised basic CSF dated October 12, 2012 is acceptable (see Findings) this correspondence supersede previously accepted CSFs for this product.

General Comments

Should you have any questions concerning this letter, please contact Velma Noble at (703) 308-6233 or Jamil Mixon at (703) 308-8032.

Sincerely,

Velma Noble
Product Manager (31)
Regulatory Management Branch I
Antimicrobials Division (7510P)

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

EPA United States Environmental Protection Agency **Office of Pesticide Programs**

Antimicrobials Division (AD)

November 7, 2012

DP BARCODE: 406152

MRID : NA

SUBJECT: Nalco 60620
(Name of Product)

File Symbol.: 1706-240

DOCUMENT TYPE: Product Chemistry Review

Manufacturing-use [ ] OR End-use Product [x]

INGREDIENTS:

PC Code(s)	CAS Number	Active Ingredient(s):
005601	7783-20-2	Ammonium sulfate

TEST LAB(s): NA

SUBMITTER: Nalco Company

GUIDELINE: CSF Review

ORGANIZATION: AD\PSB\CTT

REVIEWER: Earl Goad

APPROVER: Karen P. Hicks

APPROVED DATE: November 7, 2012

COMMENT:

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

EPA United States Environmental Protection Agency **Office of Pesticide Programs**

Antimicrobials Division (AD)

November 7, 2012

MEMORANDUM

SUBJECT: Product Chemistry Review for EPA File Symbol: 1706-240
Product Name: Nalco 60620
DP Barcode: 406152

CODE: (362) Formula Change, Technical,

DATE DUE: January 13, 2012

FROM: Earl Goad, Biologist
Chemistry and Toxicology Team
Product Science Branch
Antimicrobials Division (7510P)

THRU: Karen Hicks, Team Leader
Chemistry and Toxicology Team
Product Science Branch
Antimicrobials Division (7510P)

TO: Velma Noble PM#31/Cletis Mixon
Regulatory Management Branch I
Antimicrobials Division (7510P)

Applicant: Nalco Company

PRODUCT FORMULATION FROM LABEL:

Active Ingredient(s):	% by wt.
Ammonium sulfate	20.0
Other Ingredient(s):	80.0
Total:	100.0

Product ingredient source information may be entitled to confidential treatment

BACKGROUND:

Nalco Company, has submitted an application to amend the registration of their end-use product, "Nalco 60620" EPA Reg# 1706-240. The product is produced by an integrated formulation system (i.e., the product contains an active ingredient that is not sourced from an EPA-registered product). This product is to be used in conjunction with a solution of sodium hypochlorite to produce a stabilized chlorine solution within their OxiPro® delivery system. The resulting active ingredient created is for use in controlling bacteria, algae, and fungi in pulp and paper mill water systems.

The data package included the following documents dated October 12, 2012.

1. Letter from the applicant's to EPA.
2. EPA Form 8570-1 (Application for Pesticide).
3. A revised basic Confidential Statement of Formula, dated October 12, 2012.
4. MSDS sheet for the new technical source. Issued by the supplier September 2011.
5. Certificate of analysis on the technical for one lot, manufacture date February 13, 2012.

.

FINDINGS:

1. A revised basic CSF dated October 12, 2012 was submitted with the addition of one alternate source of the active ingredient and replacing the three original production sites with one new one.
2. Of the two sources of the active (Ammonium sulfate) on the above revised basic CSF, one is the same as provided with the original product registration [redacted]) the other is new ([redacted]). Neither sources are EPA registered.
3. A 5 batch preliminary analysis was conducted on the original source by a GLP laboratory. This study provided in MRID# 483408-02 was reviewed and found acceptable.
4. The new supplier's MSDS sheet and certificate of analysis for one lot of material were compared to the original source identity and analysis and are found to be acceptable as an alternate source.
5. The revised basic CSF dated October 12, 2012 is acceptable and must supersede the previous accepted CSF.

CONCLUSION:

The revised basic CSF dated October 12, 2012 is acceptable (see Findings) must supersede previously accepted CSFs for this product.

Decision #: 470914
DP #: (406152)
NON PRIA
Parent DP #:
Submission #: 925478
E-Sub #:

DATA PACKAGE BEAN SHEET

Date: 19-Oct-2012

* * * Registration Information * * *

Registration: 1706-240 - NALCO 60620

Company: 1706 - NALCO COMPANY

Risk Manager: RM 31 - Velma Noble - (703) 308-6233 Room# PY1 S-8855

Risk Manager Reviewer: Cletis Mixon CMIXON

Sent Date: PRIA Due Date: 13-Jan-2013 Edited Due Date:

Type of Registration: Product Registration - Section 3

Action Desc: (362) FORMULA CHANGE;TECHNICAL;

Ingredients: 005601, Ammonium sulfate(20%)

* * * Data Package Information * * *

Expedite: ○ Yes ● No Date Sent: 19-Oct-2012 Due Back:

DP Ingredient: 005601, Ammonium sulfate

DP Title: Product Chemistry

CSF Included: ● Yes ○ No Label Included: ○ Yes ● No Parent DP #:

Assigned To		Date In	Date Out	
Organization:	AD / PSB			Last Possible Science Due Date: 29-Nov-2012
Team Name:	Eall			Science Due Date:
Reviewer Name:	[illegible]	10/24/12	11/13/12	Sub Data Package Due Date:
Contractor Name:				

* * * Studies Sent for Review * * *

No Studies

* * * Additional Data Package for this Decision * * *

No Additional Data Packages

* * * Data Package Instructions * * *

Karen chemistry- Registrant has submitted CSF to be reviewed

RISK ASSIGNMENT FORM
Antimicrobial Division/Regulatory Management Branch I

A	Completed by Product Manager		
PRODUCT REVIEWER:	Cletis	RMBI	TEAM 31
Type of Action:	CSF Amendment	EPA File Symbol/Reg No.	1706-240
Decision No.	Submission No.	Fee for Service Action Code:	
FQPA Action Code: 362	Non-FQPA Action Code:	PRIA FEE AMOUNT:	

	MONTH	DAY	YEAR
APPLICATION DATE	10	12	2012
EPA PIN DATE	10	15	2012
DATE PM RECEIVED FROM FRONT END			2012
DATE SENT TO SCIENCE			
DATE RECEIVED FROM SCIENCE			
DATE DUE TO PM			

Type of Data:	PSB Product Chemistry	PSB Acute Toxicology	PSB Efficacy	RASSB Environmental Fate	RASSB Ecological Effects	RASSB Chronic Toxicology	RASSB Exposure/ Residue
	X						

Karen - Chemistry - Registrant has submitted CSF to be reviewed

ATTACHMENTS:	-LABELING	e-CSF(S)	e-DATA	e-OTHERS

B	For Arctic Slope Contract Only	
	Contract No.: 0052	*ARCTIC SLOPE*/MANAGER
	Final Task: Signature _____	_____ (Total hrs)
C	Reviewer Comments:	

DATE FEE PAID:	RESPONSE CODE:	RESPONSE DATE:

Fee for Service

{925478S~

This package includes the following

- ○ New Registration
- ◉ Amendment

☐ Studies? ☐ Fee Waiver?

☐ volpay % Reduction: ___

for Division

- ◉ AD
- ○ BPPD
- ○ RD

Risk Mgr. 31

Receipt No. S- 925478

EPA File Symbol/Reg. No. 1706-240

Pin-Punch Date: 10/15/2012

☒ This item is NOT subject to FFS action.

Action Code:

Requested: 362

Granted: 362

Amount Due: $ _____

Parent/Child Decisions:

☐ Inert Cleared for Intended Use ☐ Uncleared Inert in Product

Reviewer: Team 4 (MH) Date: 10/16/12

Remarks:

Receipt for Section 3

S: 925478

Resubmission: Yes No

Regulatory Type: Product Registration - Section 3

Fee For Service: Yes No

Application Type: Amendment

Billable: Yes No

Print Letter

Enter More Information

Tracking

Company: 1706 NALCO COMPANY

Risk Manager: Antimicrobials Division, Risk Management Team 31

Product #: 1706-240 Product Name: NALCO 60620

Override#:

Me Too Section3: Me Too Product Name:

Application Date: 12-Oct-2012 OPP Rec'vd Date: 15-Oct-2012

Front End Date: 15-Oct-2012 Risk Manager Send Date:

FFS Due Date: Negotiated Due Date:

OPP Target Date:

Receipt Content	Des
CSF	

View/Edit

Fast Track: New Ingredient:

Receipt Description:

AMENDMENT

New Ingredient Request Date:

New Ingredient Received Date:

Form A: Signature Date: Form B: Signature Date:

NALCO

October 12, 2012

Nalco Company
1601 West Diehl Road
Naperville, IL 60563-1198
phone 630.305.1000
www.nalco.com

Document Processing Desk (AMEND)
Office of Pesticide Programs (7510P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

Attention: Velma Noble
Product Manager 31
Antimicrobials Division

Subject: **CSF Amendment**

Product: Nalco 60620 (EPA Reg. No. 1706-240)

Dear Ms. Noble:

Nalco Company is submitting a CSF amendment for Nalco 60620 (1706-240) to add an alternate supplier for the active ingredient.

In support of this amendment the following is enclosed:

1. Application Form (EPA Form 8570-1)
2. CSF (EPA Form 8570-4) with the changes highlighted in yellow (3 copies)
3. Supporting documents for the alternate supplier

If you have any questions, please contact me at 630-305-1455.

Regards,

Linda Fane

Linda J. Fane
Research Scientist
NA Biocides – Maintenance & Stewardship
630-305-1455
lfane@nalco.com

Please read instructions on reverse before comp ing form. Form Approved. MB No. 2070-0060, Approval expires 2-28-95

EPA	United States Environmental Protection Agency Washington, DC 20460	☐ Registration ☒ Amendment ☐ Other	OPP Identifier Number

Application for Pesticide – Section I

1. Company/Product Number **1706-240**	2. EPA Product Manager **Velma Noble**	3. Proposed Classification ☒ None ☐ Restricted
4. Company/Product (Name) **Nalco 60620**	PM# **31**	
5. Name and Address of Applicant *(Include ZIP Code)* Nalco Company 1601 West Diehl Road Naperville, IL 60563 ☐ *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. Nos. Product Names	

Section - II

☒ Amendment – Explain below.
☐ Resubmission in response to Agency letter dated _____
☐ Notification – Explain Below.
☐ Final printed labels in response to Agency letter dated _____
☐ "Me Too" Application
☐ Other – Explain Below.

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

Amendment to add an alternate vendor to the CSF – Basic Formula.

Section - III

1. Material This Product Will Be Packaged In:

Child-Resistant Packaging	Unit Packaging		Water Soluble Packaging		2. Type of Container
☐ Yes ☐ No	☐ Yes ☐ No		☐ Yes ☐ No		☐ Metal ☐ Plastic ☐ Glass ☐ Paper ☐ Other (Specify) _____
**** Certification must be submitted***	If "Yes" Unit Packaging wgt.	No. per Container	If "Yes" Packaging wgt.	No. per Container	

3. Location of Net Contents Information	4. Size(s) Retail Container	5. Location of Label Directions
☐ Label ☐ Container		☐ On Label ☐ On Labeling accompanying product

6. Manner in Which Label is Affixed to Product ☐ Lithograph ☐ Paper Glued ☐ Stenciled ☐ Other _____

Section - IV

1. Contact Point *(Complete items directly below for identification of individual to be contacted, if necessary, to process this application..)*

Name	Title	Telephone No. (Include Area Code)
Linda J. Fane	Research Scientist	630-305-1455

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

2. Signature Linda Fane	3. Title Research Scientist	6. Date Application Received **(Stamped)**
4. Typed Name Linda J. Fane	5. Date 10-12-2012	

Pages 165-166*Confidential Statement of Formula may be entitled to confidential treatment*

Pages 167-169 - *Product ingredient source information may be entitled to confidential treatment*

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

EPA United States Environmental Protection Agency **Office of Pesticide Programs**

Antimicrobials Division (AD)

November 7, 2012

DP BARCODE: 406152

MRID : NA

SUBJECT: Nalco 60620
(Name of Product)

File Symbol.: 1706-240

DOCUMENT TYPE: Product Chemistry Review

Manufacturing-use [ ] OR End-use Product [x]

INGREDIENTS:

PC Code(s)	CAS Number	Active Ingredient(s):
005601	7783-20-2	Ammonium sulfate

TEST LAB(s): NA

SUBMITTER: Nalco Company

GUIDELINE: CSF Review

ORGANIZATION: AD\PSB\CTT

REVIEWER: Earl Goad

APPROVER: Karen P. Hicks

APPROVED DATE: November 7, 2012

COMMENT:

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

EPA United States Environmental Protection Agency **Office of Pesticide Programs**

Antimicrobials Division (AD)

November 7, 2012

MEMORANDUM

SUBJECT: Product Chemistry Review for EPA File Symbol: 1706-240
Product Name: Nalco 60620
DP Barcode: 406152

CODE: (362) Formula Change, Technical,

DATE DUE: January 13, 2012

FROM: Earl Goad, Biologist
Chemistry and Toxicology Team
Product Science Branch
Antimicrobials Division (7510P)

THRU: Karen Hicks, Team Leader
Chemistry and Toxicology Team
Product Science Branch
Antimicrobials Division (7510P)

TO: Velma Noble PM#31/Cletis Mixon
Regulatory Management Branch I
Antimicrobials Division (7510P)

Applicant: Nalco Company

PRODUCT FORMULATION FROM LABEL:

Active Ingredient(s):	% by wt.
Ammonium sulfate	20.0
Other Ingredient(s):	80.0
Total:	100.0

Product ingredient source information may be entitled to confidential treatment

BACKGROUND:

Nalco Company, has submitted an application to amend the registration of their end-use product, "Nalco 60620" EPA Reg# 1706-240. The product is produced by an integrated formulation system (i.e., the product contains an active ingredient that is not sourced from an EPA-registered product). This product is to be used in conjunction with a solution of sodium hypochlorite to produce a stabilized chlorine solution within their OxiPro® delivery system. The resulting active ingredient created is for use in controlling bacteria, algae, and fungi in pulp and paper mill water systems.

The data package included the following documents dated October 12, 2012.

1. Letter from the applicant's to EPA.
2. EPA Form 8570-1 (Application for Pesticide).
3. A revised basic Confidential Statement of Formula, dated October 12, 2012.
4. MSDS sheet for the new technical source. Issued by the supplier September 2011.
5. Certificate of analysis on the technical for one lot, manufacture date February 13, 2012.

FINDINGS:

1. A revised basic CSF dated October 12, 2012 was submitted with the addition of one alternate source of the active ingredient and replacing the three original production sites with one new one.
2. Of the two sources of the active (Ammonium sulfate) on the above revised basic CSF, one is the same as provided with the original product registration ([redacted]) the other is new ([redacted]). Neither sources are EPA registered.
3. A 5 batch preliminary analysis was conducted on the original source by a GLP laboratory. This study provided in MRID# 483408-02 was reviewed and found acceptable.
4. The new supplier's MSDS sheet and certificate of analysis for one lot of material were compared to the original source identity and analysis and are found to be acceptable as an alternate source.
5. The revised basic CSF dated October 12, 2012 is acceptable and must supersede the previous accepted CSF.

CONCLUSION:

The revised basic CSF dated October 12, 2012 is acceptable (see Findings) must supersede previously accepted CSFs for this product.

Material Sent for Data Extraction

Reg # 1706-540

Description: _____

☒ Material(s) Sent to Data Extraction Contractors:

- ☒ New Stamped Label Dated _____
- ☐ Notification Dated _____
- ☐ New CSF(s) Dated _____
- ☐ Other: _____

☐ Decision #: _____

☐ Other Action/Comments: _____

_____

Attach this coversheet to the top of the material or jacket. It must be well organized and clipped together, NOT STAPLED. Then give the material with this coversheet to staff in the Information Services Center (Room S-4900).

Reviewer: D. Copeland

Phone: _____ Division: AD

Date: 11/19/12

Created February 3, 2011

UNITED ST. ES ENVIRONMENTAL PROTECTION AG' CY

NOV 1 9 12

Ms. Linda J. Fane
Research Scientist
Nalco Company
1601 West Diehl Road
Naperville, IL 60563

Subject: **Nalco 60620**
EPA Registration Number 1706-240
Application Dated September 14, 2012
EPA Received September 17, 2012

Dear Ms. Fane:

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

Proposed Amendment:

- Add "And Fiberglass Production" to the use heading

General Comments:

A stamped copy of the acceptable labeling is enclosed. Submit one (1) copy of your final printed labeling before distributing or selling the product bearing the revised labeling.

Should you have any questions or comments concerning this letter, please contact Drusilla Copeland at (703) 308-6224.

Sincerely,

Velma Noble
Product Manager (31)
Regulatory Management Branch I
Antimicrobials Division (7510P)

Enclosure: stamped label

CONCURRENCES								
SYMBOL								
SURNAME								
DATE								

PRECAUTIONARY STATEMENTS:
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed or absorbed through the skin. May cause irritation to the eyes and skin. Do not get in eyes, on skin, or on clothing. Use with adequate ventilation. Wear protective eyewear (goggles, face shield or safety glasses), protective clothing and protective gloves (rubber, chemical resistant) when handling. Remove contaminated clothing and wash clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic organisms. 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.

PHYSICAL AND CHEMICAL HAZARDS

Direct mixing of this product with sodium hypochlorite solutions and other strong oxidizing and alkali chemicals will release hazardous gases. Only mix with other chemicals or materials solutions following the Directions for Use of this product.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Keep container tightly closed. Store in a dry place. Leaking or damaged containers should be placed in an overpack container for disposal. Spills should be contained and cleaned using an absorbent material and disposed of in a sanitary landfill.

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.

(Container Handling statements not applicable to bulk containers)

(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 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.

NET CONTENTS SHOWN ELSEWHERE ON CONTAINER

NALCO

NALCO® 60620

A MICROORGANISM CONTROL CHEMICAL

ACTIVE INGREDIENT:
Ammonium Sulfate.....20.0%
INERT INGREDIENTS:.....80.0%
TOTAL:.....100.0%

EPA Reg. No. 1706-240

EPA Est. No. 1706-IL-1 (BP) EPA Est. No. 1706-WA-1 (VW)
EPA Est. No. 1706-PA-1 (EL) EPA Est. No. 1706-LA-2 (PL)

Letter in () that matches first letter in batch number identifies the establishment number.

KEEP OUT OF REACH OF CHILDREN
CAUTION

FIRST AID

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 a doctor for treatment advice.

IF IN EYES: Hold eyes 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 a doctor for treatment advice.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or a doctor for treatment advice.

NOTE: Have the product container or label with you when calling a poison control center or a doctor, or going for treatment.

SEE LEFT SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

Nalco Company
1601 West Diehl Road
Naperville, IL 60563-1198
EMERGENCY PHONE NO. (800) 424-9300

ACCEPTED
NOV 19 2012
Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 1706-240

DIRECTIONS FOR USE

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

For the control of bacteria, algae and fungi. Nalco 60620 must be used in conjunction with: 1) an EPA registered sodium hypochlorite product (12.5%) to produce chloramine; and 2) the OxiPRO delivery system at a pH of ≥8.5 as described below. The OxiPRO delivery system can be configured for a primary or secondary dilution strategy. Your Nalco technical representative will determine which OxiPRO delivery system configuration is appropriate for treatment of your system.

Nalco 60620 and the sodium hypochlorite are mixed in a specially designed OxiPRO system that produces the chloramine solution on site. The products are blended to achieve a minimum molar ratio of 1.0-1.2 to 1.0 Nalco 60620 to sodium hypochlorite (12.5%). The chloramine is typically achieved by mixing 1.5 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). The OxiPRO delivery system controller ensures the automatic production of the dilute chloramine solution, controls the optimization of the production process, and ensures adequate dosing into the water system requiring treatment. The design, treatment, installation, calibration, and operation of the feeding system in all plants is to be conducted only by authorized and trained personnel.

Use of this product for any other purpose or contrary to the instructions below, or without the supervision of authorized trained personnel is prohibited.

Note: Do not use other feeding modes to mix Nalco 60620 and the sodium hypochlorite. Non-authorized personnel are prohibited from operating or otherwise handling the feeding system or its chemical ingredients.

PULP AND PAPERMILL WATER SYSTEMS AND PRODUCTION OF FIBERGLASS

Dosage Rates: When the system is noticeably fouled, apply sufficient Nalco 60620 and sodium hypochlorite to achieve a chlorine residual in excess of the system oxidant demand. The chloramine solution produced by the delivery system is immediately added to the process waters for which treatment is required. The chloramine solution may be added to any point of uniform mixing. Addition may be continuous or intermittent depending on the severity of the contamination when treatment starts, and on other system operation parameters.

A. SLUG FEED METHOD

Initial Dose: When the system is noticeably fouled, add the appropriate amount of chloramine to the system to obtain from 1 to 10 ppm total available chlorine. The chloramine dosage is achieved by mixing 1.5 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Repeat until control is achieved. Badly fouled systems must be cleaned before treatment is begun.

Subsequent Dose: When microbial control is evident, add the appropriate amount of chloramine to the system daily, or as needed to maintain control and keep the total chlorine residual at 1 to 10 ppm.

B. INTERMITTENT FEED METHOD

Initial Dose: When the system is noticeably fouled, add the appropriate amount of chloramine to the system to obtain from 1 to 10 ppm total available chlorine. The chloramine dosage is achieved by mixing 1.5 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Badly fouled systems must be cleaned before treatment is begun.

Subsequent Dose: When microbial control is evident, add the appropriate amount of chloramine to the system to obtain a 1 – 10 ppm total chlorine residual.

C. CONTINUOUS FEED METHOD

Initial Dose: When the system is noticeably fouled, add the appropriate amount of chloramine to the system to obtain 1 to 10 ppm total available chlorine. The chloramine dosage is achieved by mixing 1.5 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Badly fouled systems must be cleaned before treatment is begun.

Subsequent Dosage: Maintain this treatment level by starting a continuous feed of chloramine to maintain a 1 to 10 ppm total chlorine residual.

NALCO

September 14, 2012

Nalco Company
1601 West Diehl Road
Naperville, IL 60563-1198
phone 630.305.1000
www.nalco.com

Document Processing Desk (AMEND)
Office of Pesticide Programs (7510P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

Attention: Velma Noble
Product Manager 31
Antimicrobials Division

Subject: **Label Amendment**

Product: Nalco 60620 (EPA Reg. No. 1706-240)

Dear Ms. Noble:

Nalco Company is submitting a label amendment for Nalco 60620 (1706-240) to add language to the use heading to reflect that the product is acceptable for use in fiberglass production process water. No other changes to the label have been made.

This label amendment was discussed during a teleconference I had with Mr. Dennis Edwards of EPA/AD and Mr. John Wood of Ecolab on August 30, 2012. Mr. Edwards concluded that the use of Nalco 60620 in fiberglass production process water is not a new use site, it is not subject to PRIA II and it is not subject to data compensation.

In support of this amendment the following is enclosed:

1. Application Form (EPA Form 8570-1)
2. Five copies of the revised label with the revised language highlighted in yellow

If you have any questions, please contact me at 630-305-1455.

Regards,

Linda J. Fane
Research Scientist
NA Biocides – Maintenance & Stewardship
630-305-1455
lfane@nalco.com

Please read instructions on reverse before completing form. Form Approved. OMB No. 2070-0060, Approval expires 2-28-95

EPA	United States Environmental Protection Agency Washington, DC 20460	☐ Registration ☒ Amendment ☐ Other	OPP Identifier Number

Application for Pesticide – Section I

1. Company/Product Number **1706-240**	2. EPA Product Manager **Velma Noble**	3. Proposed Classification ☒ None ☐ Restricted
4. Company/Product (Name) **Nalco 60620**	PM# **31**	
5. Name and Address of Applicant *(Include ZIP Code)* Nalco Company 1601 West Diehl Road Naperville, IL 60563 ☐ *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. Nos. Product Names	

Section - II

☒ Amendment – Explain below.
☐ Resubmission in response to Agency letter dated _____
☐ Notification – Explain Below.
☐ Final printed labels in response to Agency letter dated _____
☐ "Me Too" Application
☐ Other – Explain Below.

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

Amendment to add "And Fiberglass Production" to the use heading.

Section - III

1. Material This Product Will Be Packaged In:

Child-Resistant Packaging	Unit Packaging		Water Soluble Packaging		2. Type of Container
☐ Yes ☐ No	☐ Yes ☐ No		☐ Yes ☐ No		☐ Metal ☐ Plastic ☐ Glass ☐ Paper ☐ Other (Specify) _____
**** Certification must be submitted***	If "Yes" Unit Packaging wgt.	No. per Container	If "Yes" Packaging wgt.	No. per Container	

3. Location of Net Contents Information	4. Size(s) Retail Container	5. Location of Label Directions
☐ Label ☐ Container		☐ On Label ☐ On Labeling accompanying product

6. Manner in Which Label is Affixed to Product ☐ Lithograph ☐ Paper Glued ☐ Stenciled ☐ Other _____

Section - IV

1. Contact Point *(Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)*

Name	Title	Telephone No. (Include Area Code)
Linda J. Fane	Research Scientist	630-305-1455

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

2. Signature Linda J Fane	3. Title Research Scientist	6. Date Application Received **(Stamped)**
4. Typed Name Linda J. Fane	5. Date 9-14-2012	

EPA Form 8570-1 (Rev. 3-94) Previous editions are obsolete. **White – EPA File Copy (original) Yellow – Applicant copy**

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Linda J. Fane
Nalco Company
1601 West Diehl Road
Naperville, IL 60563

JUN 28 2012

Subject: Nalco 60620
EPA Registration No. 1706-240
Amendment Dated: April 5, 2012
EPA Receipt Date: April 6, 2012

Dear Ms. Fane,

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

- Revised label

A stamped copy of the accepted labeling is enclosed. Submit one (1) copy of your final printed labeling before distributing or selling the product bearing the revised labeling. Should you have any questions concerning this letter, please contact Tracy Lantz at (703) 308-6415 or Velma Noble at (703) 308-6233.

Sincerely,

Velma Noble
Product Manager (31)
Regulatory Management Branch I
Antimicrobials Division (7510P)

Enclosure: Stamped Label
7510P:T.Lantz:6/27/12:1706-240 label review

CONCURRENCES								
SYMBOL	7510P							
SURNAME	T Lantz							
DATE	6/27/12							

EPA Form 1320-1A (1/90) *Printed on Recycled Paper* OFFICIAL FILE COPY

PRECAUTIONARY STATEMENTS: HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed or absorbed through the skin. May cause irritation to the eyes and skin. Do not get in eyes, on skin, or on clothing. Use with adequate ventilation. Wear protective eyewear (goggles, face shield or safety glasses), protective clothing and protective gloves (rubber, chemical resistant) when handling. Remove contaminated clothing and wash clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic organisms. 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.

PHYSICAL AND CHEMICAL HAZARDS

Direct mixing of this product with sodium hypochlorite solutions and other strong oxidizing and alkali chemicals will release hazardous gases. Only mix with other chemicals or materials solutions following the Directions for Use of this product.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Keep container tightly closed. Store in a dry place. Leaking or damaged containers should be placed in an overpack container for disposal. Spills should be contained and cleaned using an absorbent material and disposed of in a sanitary landfill.

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.

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.

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 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.

NET CONTENTS SHOWN ELSEWHERE ON CONTAINER

NALCO

NALCO® 60620

A MICROORGANISM CONTROL CHEMICAL

ACTIVE INGREDIENT:
Ammonium Sulfate.....20.0%
INERT INGREDIENTS:.....80.0%
TOTAL:.....100.0%

EPA Reg. No. 1706-240

EPA Est. No. 1706-IL-1 (BP)
EPA Est. No. 1706-PA-1 (EL)
EPA Est. No. 1706-WA-1 (VW)
EPA Est. No. 1706-LA-2 (PL)

Letter in () that matches first letter in batch number identifies the establishment number.

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID

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 a doctor for treatment advice.

IF IN EYES: Hold eyes 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 a doctor for treatment advice.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or a doctor for treatment advice.

NOTE: Have the product container or label with you when calling a poison control center or a doctor, or going for treatment.

SEE LEFT SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

Nalco Company
1601 West Diehl Road
Naperville, IL 60563-1198
EMERGENCY PHONE NO. (800) 424-9300

ACCEPTED with COMMENTS in EPA Letter Dated: 28 2009

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide under EPA Reg. No. 1706-240

DIRECTIONS FOR USE

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

For the control of bacteria, algae and fungi. Nalco 60620 must be used in conjunction with: 1) an EPA registered sodium hypochlorite product (12.5%) to produce chloramine; and 2) the OxiPRO delivery system at a pH of ≥8.5 as described below. The OxiPRO delivery system can be configured for a primary or secondary dilution strategy. Your Nalco technical representative will determine which OxiPRO delivery system configuration is appropriate for treatment of your system.

Nalco 60620 and the sodium hypochlorite are mixed in a specially designed OxiPRO system that produces the chloramine solution on site. The products are blended to achieve a minimum molar ratio of 1.0-1.2 to 1.0 Nalco 60620 to sodium hypochlorite (12.5%). The chloramine is typically achieved by mixing 1.5 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). The OxiPRO delivery system controller ensures the automatic production of the dilute chloramine solution, controls the optimization of the production process, and ensures adequate dosing into the water system requiring treatment. The design, treatment, installation, calibration, and operation of the feeding system in all plants is to be conducted only by authorized and trained personnel.

Use of this product for any other purpose or contrary to the instructions below, or without the supervision of authorized trained personnel is prohibited.

Note: Do not use other feeding modes to mix Nalco 60620 and the . hypochlorite. Non-authorized personnel are prohibited from operating or otherwise handling the feeding system or its chemical ingredients.

PULP AND PAPERMILL WATER SYSTEMS

Dosage Rates: When the system is noticeably fouled, apply sufficient Nalco 60620 and sodium hypochlorite to achieve a chlorine residual in excess of the system oxidant demand. The chloramine solution produced by the delivery system is immediately added to the process waters for which treatment is required. The chloramine solution may be added to any point of uniform mixing. Addition may be continuous or intermittent depending on the severity of the contamination when treatment starts, and on other system operation parameters.

A. SLUG FEED METHOD

Initial Dose: When the system is noticeably fouled, add the appropriate amount of chloramine to the system to obtain from 1 to 10 ppm total available chlorine. The chloramine dosage is achieved by mixing 1.5 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Repeat until control is achieved. Badly fouled systems must be cleaned before treatment is begun.

Subsequent Dose: When microbial control is evident, add the appropriate amount of chloramine to the system daily, or as needed to maintain control and keep the total chlorine residual at 1 to 10 ppm.

B. INTERMITTENT FEED METHOD

Initial Dose: When the system is noticeably fouled, add the appropriate am f chloramine to the system to obtain from 1 to 10 ppm total available chlorine. .he chloramine dosage is achieved by mixing 1.5 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Badly fouled systems must be cleaned before treatment is begun.

Subsequent Dose: When microbial control is evident, add the appropriate amount of chloramine to the system to obtain a 1 – 10 ppm total chlorine residual.

C. CONTINUOUS FEED METHOD

Initial Dose: When the system is noticeably fouled, add the appropriate amount of chloramine to the system to obtain 1 to 10 ppm total available chlorine. The chloramine dosage is achieved by mixing 1.5 gallons of Nalco 60620 with 1.0 gallon of sodium hypochlorite (12.5%). Badly fouled systems must be cleaned before treatment is begun.

Subsequent Dosage: Maintain this treatment level by starting a continuous feed of chloramine to maintain a 1 to 10 ppm total chlorine residual.

PRODUCT IS NOT REGULATED DURING TRANSPORTATION

RISK ASSIGNMENT FORM
Antimicrobial Division/Regulatory Management Branch I

A	Completed by Product Manager	
PRODUCT REVIEWER: Tracy		RMBI TEAM 31
Type of Action: Label amendment		EPA File Symbol/Reg No. 1706-240
Decision No. D463602	Submission No. S914872	Fee for Service Action Code:
FQPA Action Code: 302	Non-FQPA Action Code:	PRIA FEE AMOUNT:

	MONTH	DAY	YEAR
APPLICATION DATE	4	5	2012
EPA PIN DATE	4	6	2012
DATE PM RECEIVED FROM FRONT END			2012
DATE SENT TO SCIENCE			
DATE RECEIVED FROM SCIENCE			
DATE DUE TO PM	7	5	2012

Type of Data:	PSB Product Chemistry	PSB Acute Toxicology	PSB Efficacy	RASSB Environmental Fate	RASSB Ecological Effects	RASSB Chronic Toxicology	RASSB Exposure/ Residue

4/20 Sent Dennis ~~and~~ an email asking for info. associated with the meeting

Label Amendment - Give to Tracy

They talked to Dennis on 3/28/12 - make sure this agrees w/ what was discussed. 4/26/12 Dennis Edwards agrees with these label changes

ATTACHMENTS: -LABELING -CSF(S) -DATA -OTHERS

B	For Arctic Slope Contract Only	
	Contract No.: 0052	*ARCTIC SLOPE*/MANAGER
	Final Task: Signature _____	_____ (Total hrs)
C	Reviewer Comments:	

DATE FEE PAID:	RESPONSE CODE:	RESPONSE DATE:

Receipt for Section 3

S: 914872

Resubmission: Yes No

Regulatory Type: Product Registration - Section 3

Fee For Service: Yes No

Application Type: Amendment

Billable: Yes No

Print Letter

Enter More Information

Tracking

Company: 1706 NALCO COMPANY

Risk Manager: Antimicrobials Division, Risk Management Team 31

Product #: 1706-240 Product Name: NALCO 60620

Override#:

Me Too Section3: Me Too Product Name:

Application Date: 05-Apr-2012 OPP Rec'vd Date: 06-Apr-2012

Front End Date: 06-Apr-2012 Risk Manager Send Date: 10-Apr-2012

FFS Due Date: Negotiated Due Date:

OPP Target Date:

Receipt Content	Des
Paper Label	

View/Edit

Fast Track: New Ingredient:

Receipt Description:

Label amendment

New Ingredient Request Date:

New Ingredient Received Date:

Form A: Signature Date: Form B: Signature Date:

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

April 10, 2012

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

WILLIAM S. UTLEY
NALCO COMPANY
1601 WEST DIEHL ROAD
NAPERVILLE, IL 60563-1198

PRODUCT NAME: NALCO 60620
COMPANY NAME: NALCO COMPANY
OPP IDENTIFICATION NUMBER:
EPA FILE SYMBOL: 1706-240
EPA RECEIPT DATE: 04/06/12

SUBJECT: RECEIPT OF AMENDMENT

DEAR REGISTRANT:

The Office of Pesticide Programs has received your application for an amendment and it has passed an administrative screen for completeness.

During the initial screen we determined that the application appears to qualify for fast track review. The package will now be forwarded to the Product Manager for review to determine its acceptability for fast track status.

If you have any questions, please contact Antimicrobials Division, Risk Management Team 31, at (703) 308-6233.

Sincerely,

P. R. Moore
Front End Processing Staff
Information Services Branch
Information Technology & Resources Management Division

Fee for Service

{914872:~

This package includes the following

- ○ New Registration
- ◉ Amendment

☐ Studies? ☐ Fee Waiver?

☐ volpay % Reduction: ___

for Division

- ◉ AD
- ○ BPPD
- ○ RD

Risk Mgr. 31

Receipt No. S- 914872

EPA File Symbol/Reg. No. 1706-240

Pin-Punch Date: 4/6/2012

☑ This item is NOT subject to FFS action.

Action Code:

Requested:

Granted:

Amount Due: $ _____

Parent/Child Decisions:

☒ Inert Cleared for Intended Use ☒ Uncleared Inert in Product

Reviewer: Team 2 Date: April 9, 2012

Remarks: FQPA 302: Label amendment, no data

Pages 185-189 - *Claimed confidential by submitter*

Material Sent for Data Extraction

Reg # 1706-240

Description: _____

☑ Material(s) Sent to Data Extraction Contractors:

- ☐ New Stamped Label Dated _____
- ☐ Notification Dated _____
- ☐ New CSF(s) Dated _____
- ☑ Other: Chemistry review (physical and chemical characteristics)

☑ Decision #: 463512

☐ Other Action/Comments: _____

Attach this coversheet to the top of the material or jacket. It must be well organized and clipped together, NOT STAPLED. Then give the material with this coversheet to staff in the Information Services Center (Room S-4900).

Reviewer: E. Oigenblik

Phone: _____ Division: AD

Date: _____

Created February 3, 2011

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

SUBJECT: Nalco 60620
EPA Registration Number: 1706-240
Application Dated: March 27, 2012
Receipt Date: March 27, 2012

Dear Ms. Mann:

The following amendment, submitted under the provisions of section 3 (c) 9 the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended is acceptable.

- Submission of Storage Stability/Corrosion Characteristics Data.

The Product Science Branch of Antimicrobials Division finds the submitted data to be acceptable. Nalco 60620 was found stable for when stored at room temperature for a period of one year. Also no physical changes were observed to the product or storage container material. The associated chemistry review is attached.

General Comments

Should you have any questions concerning this letter, please contact Emilia Oiguenblik at (703) 347-0199 or Velma Noble at (703) 308-6233.

Sincerely,

Velma Noble
Product Manager (31)
Regulatory Management Branch I
Antimicrobials Division (7510P)

CONCURRENCES								
SYMBOL								
SURNAME								
DATE								

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

EPA United States Environmental Protection Agency **Office of Pesticide Programs**

Antimicrobials Division (AD)

April 24, 2012

DP BARCODE: 401078

MRID : 487813-01

SUBJECT: Nalco 60620
(Name of Product)

File Symbol.: 1706-240

DOCUMENT TYPE: Product Chemistry Review

Manufacturing-use [ ] OR End-use Product [x]

INGREDIENTS:

PC Code(s)	CAS Number	Active Ingredient(s):
005601	7783-20-2	Ammonium Sulfate

TEST LAB(s): Case Consulting Laboratories

SUBMITTER: Nalco Company

GUIDELINE: OSCPP 830.6317 and 830.6320
Storage Stability and Corrosion Characteristics Studies

ORGANIZATION: AD\PSB\CTT

REVIEWER: Earl Goad

APPROVER: Karen P. Hicks

APPROVED DATE: April 24, 2012

COMMENT:

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

EPA United States Environmental Protection Agency **Office of Pesticide Programs**

Antimicrobials Division (AD)

April 24, 2012

MEMORANDUM

SUBJECT: Product Chemistry Review for EPA File Symbol: 1706-240
Product Name: Nalco 60620
DP Barcode: 401078

CODE: (362) Formulation Change, Technical
(Review of Storage Stability),

DATE DUE: June 25, 2012

FROM: Earl Goad, Biologist
Chemistry and Toxicology Team
Product Science Branch
Antimicrobials Division (7510P)

Earl Goad 4/24/2012

THRU: Karen Hicks, Team Leader
Chemistry and Toxicology Team
Product Science Branch
Antimicrobials Division (7510P)

Chris Jiang for KPH 4/24/12

TO: Velma Noble PM#31/Emilia Oiguenblik
Regulatory Management Branch I
Antimicrobials Division (7510P)

Applicant: Nalco Company

PRODUCT FORMULATION FROM LABEL:

Active Ingredient(s):	% by wt.
Ammonium sulfate	20.0
Other Ingredient(s):	80.0
Total:	100.0

BACKGROUND:

On behalf of Nalco Company, Steptoe & Johnson, LLP , has submitted for review, a combined study to address the one year product storage stability and corrosion characteristics for their end-use product, EPA Reg. no. 1706-240 "Nalco 60620". The product is produced by an integrated formulation system (i.e., the product contains an active ingredient that is not an EPA-registered product). This product is to be used in conjunction with a solution of sodium hypochlorite to produce a stabilized chlorine solution within their OxiPro® delivery system. The resulting active ingredient created is for use in controlling bacteria, algae, and fungi in pulp and paper mill water systems.

The data package included the following documents:

1. Letter from Steptoe & Johnson to EPA. RE: "Submission of storage stability/corrosion characteristics data", dated March 27, 2012.
2. MRID: 487813-01. Sinning, D. (2011) Physical and Chemical Characteristics of J06D4: Storage Stability and Corrosion Characteristics: Final Report. Project Number: 3430/08. Unpublished study prepared by Case Consulting Laboratories, Inc.

FINDINGS:

1. Study was conducted in compliance with Good Laboratory Practice Standards as described in 40CFR 160 § 160
2. The active ingredient in the test substance was identified as ammonium sulfate.
3. For the purposes of the study the test material was identified (coded) as J06D4.
4. Study was initiated February 16, 2010 and completed June 2, 2011.
5. Storage at room temperature in polypropylene alone and with a stainless steel coupon. Analysis for concentration of the active and observations performed initially and subsequently at 3 month intervals up to including 12 months.
6. Note, that wider certified limits were previously approved LL 19.0%, UL 21.0%

RESULTS: The concentration of the active ingredient remained within the certified limits throughout the one year room temperature storage.

1. Polypropylene (% ammonium sulfate)

Initial	3 month	6 month	9 month	12 month
19.6	19.3	19.5	19.7	19.6

2. Polypropylene with stainless steel (% ammonium sulfate)

Initial	3 month	6 month	9 month	12 month
19.6	19.4	19.6	19.4	19.4

3. No signs of physical changes were observed in the test substance, the polypropylene containers, or to the stainless steel coupons over the 12 month storage at room temperature.

CONCLUSION:

Nalco 60620 was found to stable for when stored at room temperature for a period of one year. Also no physical changes were observed to the product or storage container material.

Decision #: 463512
DP #: (401078)
NON PRIA
Parent DP #:
Submission #: 914220
E-Sub #:

DATA PACKAGE BEAN SHEET

Date: 18-Apr-2012

* * * Registration Information * * *

Registration: **1706-240 - NALCO 60620**

Company: 1706 - NALCO COMPANY

Risk Manager: RM 31 - Velma Noble - (703) 308-6233 Room# PY1 S-8855

Risk Manager Reviewer: Emilia Oiguenblik EOIGUENB

Sent Date: 28-Mar-2012 Calculated Due Date: 25-Jun-2012 Edited Due Date:

Type of Registration: Product Registration - Section 3

Action Desc: (362) FORMULA CHANGE;TECHNICAL;

Ingredients: 005601, Ammonium sulfate(20%)

Cor

* * * Data Package Information * * *

Expedite: ○ Yes ● No Date Sent: 18-Apr-2012 Due Back:

DP Ingredient: 005601, Ammonium sulfate

DP Title: Storage Stability & Corroison Data

CSF Included: ○ Yes ● No Label Included: ○ Yes ● No Parent DP #:

	Assigned To	Date In	Date Out
Organization:	AD / PSB		
Team Name:	CTT		
Reviewer Name:	Earl	4/19/12	4/24
Contractor Name:			

Last Possible Science Due Date: 11-May-2012

Science Due Date:

Sub Data Package Due Date:

* * * Studies Sent for Review * * *

No Studies

* * * Additional Data Package for this Decision * * *

No Additional Data Packages

* * * Data Package Instructions * * *

Please review the followin Chemisty Data (MRID #48781301)

4/19/12

STEPTOE & JOHNSON LLP
ATTORNEYS AT LAW

WRITER'S DIRECT DIAL
202.429.3095

1330 Connecticut Avenue, NW
Washington, DC 20036-1795
Tel 202.429.3000
Fax 202.429.3902
steptoe.com

March 27, 2012 *Via HAND DELIVERY*

Velma Noble
Product Manager 31
c/o Document Processing Desk
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac
2777 South Crystal Drive
Arlington, VA 22202

Re: Submission of storage stability/corrosion characteristics data

Product: Nalco 60620 (EPA Reg. No. 1706-240)

Dear Velma:

Please find enclosed three copies of the Storage Stability and Corrosion Characteristics to support Nalco 60620 (EPA Reg. No. 1706-240). Please note that the test substance identified in the study is J06D4. J06D4 is Nalco 60620.

If you have any questions please contact me at 202-429-3095.

Sincerely,

Juli Mann

Juli Mann
Paralegal Specialist
Agent for Nalco Company
jmann@steptoe.com

TRANSMITTAL DOCUMENT

Submitter

Nalco Company
1601 West Diehl Road
Naperville, IL 60563

Regulatory action in support of which this package is submitted
Nalco 60620, EPA Registration No. 1706-240
Storage stability to support product registration

Transmittal Date
March 27, 2012

Submitted Studies

	MRID	
----		Administrative Materials
Doc 1	**48781301**	Sinning, D. 2011. Physical and Chemical Characteristics of J06D4: Storage Stability and Corrosion Characteristics. Report No. 3430-08. 8 pages.

Company Contact: Juli Mann

Juli Mann, Steptoe & Johnson, LLP, Authorized Agent for Nalco Company

Mailing Adress: 1330 Connecticut Ave., NW, Washington, D.C. 20036

Phone Number: 202-429-3095

Please forward MRID number to Juli Mann at Steptoe & Johnson LLP. Thank you.

Pages 198-203 - *Commercial/financial information may be entitled to confidential treatment*

Fw: EPA Meeting Agenda (3/27)
Wood, John
to:
Dennis Edwards
03/25/2012 10:02 AM
Hide Details
From: "Wood, John" <John.wood@ecolab.com>

To: Dennis Edwards/DC/USEPA/US@EPA

2 Attachments

image002.png image003.png

Hi Dennis

For our meeting on 3/27 at 9 AM I am forwarding the agenda (see below). We will have about 4 slides which will provide more information on Nalco's proposed next steps for this registration.

Thanks again for scheduling this meeting.

See you Wednesday morning. Have a good day.

John

From: Linda Fane [mailto:lfane@nalco.com]
Sent: Friday, March 23, 2012 02:59 PM
To: Wood, John
Cc: Schulz, Rhonda
Subject: EPA Meeting Agenda

John: Here's the first slide from our EPA presentation.

As discussed, I'll print the slides and the Occupational Exposure DER and have these available for the meeting on 3/28/12.

Thank you for your assistance!!

[redacted]

Linda J. Fane

Research Scientist
WPS Business Partner
Global Regulatory Compliance Systems

NALCO
Nalco Company

Commercial/financial information may be entitled to confidential treatment

An Ecolab Company

Ph: 630-305-1455
Fax:630-305-2945
lfane@nalco.com

********** ATTACHMENT NOT DELIVERED **********

This Email message contained an attachment named
image001.jpg
which may be a computer program. This attached computer program could contain a computer virus which could cause harm to EPA's computers, network, and data. The attachment has been deleted.

This was done to limit the distribution of computer viruses introduced into the EPA network. EPA is deleting all computer program attachments sent from the Internet into the agency via Email.

If the message sender is known and the attachment was legitimate, you should contact the sender and request that they rename the file name extension and resend the Email with the renamed attachment. After receiving the revised Email, containing the renamed attachment, you can rename the file extension to its correct name.

For further information, please contact the EPA Call Center at (866) 411-4EPA (4372). The TDD number is (866) 489-4900.

********** ATTACHMENT NOT DELIVERED **********

CONFIDENTIALITY NOTICE:
This e-mail communication and any attachments may contain proprietary and privileged information for the use of the designated recipients n
Any unauthorized review, use, disclosure or distribution is prohibited.
If you are not the intended recipient, please contact the sender by reply e-mail and destroy all copies of the original message.

file in jacket

[redacted]

Kim Wilson to: Cynthia Giles-AA, Catherine McCabe, Adam Kushner, Johnpc Fogarty, Rosemarie Kelley, Don Lott, Kenneth Schefski, Brenda Mosley, Kim Wilson, Joan Harrigan-Farrelly, Dennis Edwards, Chris Kaczmarek, Mardi Klevs, Philip Ross, Leslye Fraser, Leverett Nelson, Terence Bonace, Tracy Lantz, Erin Koch, John Ruggero, Yolaanda Walker, Erin Smith, Steve Owens, Steven Bradbury, Frank Sanders, Matt Bogoshian, Yolaanda Walker, Michael Hardy, Robert Perlis, Philip Ross 08/25/2011 11:35 AM

Cc: "Hostetler, Eric (ENRD)"

240

[redacted]

Kimberly Wilson, Attorney-Advisor
U.S. Environmental Protection Agency, Office of Civil Enforcement
Waste and Chemical Enforcement Division, Pesticides and Tanks Enforcement Branch
phone: 202-564-5607, fax: 202-564-0022

CONFIDENTIAL LEGAL COMMUNICATION / WORK PRODUCT: The information transmitted is intended only for the person or entity to whom it is addressed, and may contain privileged and confidential attorney-client communications and/or confidential attorney work product. If you receive this message in error, please send a reply e-mail to the sender and delete the material from any and all computers. Unintended transmissions shall not constitute waiver of the attorney-client or any other privilege.

Public Participation Notices EPA-HQ-OPP-2011-0019 and EPA-HQ-OPP-2011-0020
Anthia Peters
to:
Dennis Edwards, Tracy Lantz
08/08/2011 02:29 PM
Show Details

History: This message has been replied to.
The public participation comment period closed on August 5, 2011 for Ammonium sulfate and Urea. To date no comments have been submitted to the docket through FDMS/Regulations.gov.

Anthia C. Peters
Office of Pesticides Programs
Docket Manager
ASRC Management Services
(703) 305-0032

RISK ASSIGNMENT FORM
Antimicrobial Division/Regulatory Management Branch I

A	Completed by Product Manager	
PRODUCT REVIEWER: Tracy		RMBI TEAM 31
Type of Action: Notification		EPA File Symbol/Reg No. 1706-240
Decision No. 451448	Submission No. 898913	Fee for Service Action Code:
FQPA Action Code: 332	Non-FQPA Action Code:	PRIA FEE AMOUNT:

	MONTH	DAY	YEAR
APPLICATION DATE	7	1	2011
EPA PIN DATE	7	1	2011
DATE PM RECEIVED FROM FRONT END			2011
DATE SENT TO SCIENCE			
DATE RECEIVED FROM SCIENCE			
DATE DUE TO PM			

Type of Data:	PSB Product Chemistry	PSB Acute Toxicology	PSB Efficacy	RASSB Environmental Fate	RASSB Ecological Effects	RASSB Chronic Toxicology	RASSB Exposure/ Residue

Notification — Give to Tracy

ATTACHMENTS: -LABELING -CSF(S) -DATA -OTHERS

B	For Arctic Slope Contract Only	
	Contract No.: 0052	*ARCTIC SLOPE*/MANAGER
	Final Task: Signature _____	_____ (Total hrs)
C	Reviewer Comments:	

DATE FEE PAID:	RESPONSE CODE:	RESPONSE DATE:

UNITED ..ATES ENVIRONMENTAL PROTECTION ..ENCY

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

JUL 27 2011

Subject: Nalco 60620
EPA Registration No. 1706-240
Notification Date: July 1, 2011
EPA Receipt Date: July 1, 2011

Dear Ms. Mann,

This letter acknowledges receipt of the notification identified above submitted under the provisions of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended and per PR Notice 98-10.

- Revise Confidential Statement of Formula

Based on a review of the submitted information this notification is acceptable. The Confidential Statement of Formula (CSF) for the Basic Formula dated 7/1/11 is acceptable and supersedes the previous Basic CSF. This notification will be made part of the record for this file. Should you have any questions concerning this letter, please contact Tracy Lantz at (703) 308-6415 or Velma Noble at (703) 308-6233.

Sincerely,

Velma Noble
Product Manager (31)
Regulatory Management Branch I
Antimicrobials Division (7510P)

7510P:T.Lantz:7/27/11:1706-240 CSF notification

CONCURRENCES								
SYMBOL	7510P							
SURNAME	T. Lantz							
DATE	7/27/11							

EPA Form 1320-1A (1/90) *Printed on Recycled Paper* OFFICIAL FILE COPY

Receipt for Section 3

S: 398913

Resubmission: Yes No

Regulatory Type: Product Registration - Section 3

Fee For Service: Yes No

Application Type: Notification

Company: 1706 NALCO COMPANY

Risk Manager: Antimicrobials Division, Risk Management Team 31

Product #: 1706-240 Product Name: NALCO 60620

Override#:

Me Too Section3: Me Too Product Name:

Application Date: 01-Jul-2011 OPP Rec'vd Date: 01-Jul-2011

Front End Date: 01-Jul-2011 Risk Manager Send Date: 01-Jul-2011

FFS Due Date: Negotiated Due Date:

OPP Target Date:

Fast Track: New Ingredient:

Receipt Description:

notification to update confidential statement of formula

New Ingredient Request Date:

New Ingredient Received Date:

Form A: Signature Date: Form B: Signature Date:

Print Letter

Enter More Information

Tracking

Receipt Content	Des
CSF	

View/Edit

SIDLEY & JOHNSON LLP
ATTORNEYS AT LAW

WRITER'S DIRECT DIAL
202.429.3095

1330 Connecticut Avenue, NW
Washington, DC 20036-1795
Tel 202.429.3000
Fax 202.429.3902
steptoe.com

July 1, 2011

Via Hand Delivery

Velma Noble, Product Manager 31
Antimicrobials Division (AD)
c/o Document Processing Desk (NOTIF)
Office of Pesticide Programs (7510P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

Re: Notification to update confidential statement of formula

Product: Nalco 60620 (EPA Reg. No. 1706-240)

Dear Velma:

Please find enclosed a notification revising the confidential statement of formula for Nalco 60620 to identify an additional producer. The new producer is highlighted on the enclosed CSF. No other changes have been made to the CSF.

Documents included with this submission include an Application Form (EPA Form 8570-1), two copies of the revised CSF dated July 1, 2011, and one copy of the current approved CSF dated Dec. 23, 2010.

If you require any further information please contact me at (202) 429-3095. Thank you for your attention to this matter.

Sincerely,

Juli Mann

Juli Mann
Regulatory Analyst

Please read instructions on reverse before complet[illegible] form. Form Approved. O[illegible]B No. 2070-0060, Approval expires 2-28-95

EPA	[illegible]ed States **Environmental Protection Agency** Washington, DC 20460	☐ [illegible]gistration ☐ Amendment ☒ Other	OPP Identifier Number

Application for Pesticide – Section I

1. Company/Product Number 1706-240	2. EPA Product Manager Velma Noble	3. Proposed Classification ☒ None ☐ Restricted
4. Company/Product (Name) Nalco 60620	PM# 31	
5. Name and Address of Applicant *(Include ZIP Code)* Nalco Company 1601 West Diehl Road Naperville, IL 60563 ☐ *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

☐ Amendment – Explain below.
☐ Resubmission in response to Agency letter dated _____
☒ Notification – Explain Below.
☐ Final printed labels in response to Agency letter dated _____
☐ "Me Too" Application
☐ Other – Explain Below.

Explanation: Use additional page(s) if necessary. (For Section I and Section II.)
Notification to add a new producer to section 2 of the CSF for Nalco 60620 (EPA Reg. No. 1706-). No other changes have been made to the CSF.
This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statements to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.
FORWARD ALL CORRESPONDENCE for this action to: Juli Mann, Steptoe & Johnson LLP, 1330 Connecticut Ave., NW, Washington, D.C. 20036.

Section - III

1. Material This Product Will Be Packaged In:

Child-Resistant Packaging	Unit Packaging		Water Soluble Packaging		2. Type of Container
☐ Yes ☐ No	☐ Yes ☐ No		☐ Yes ☐ No		☐ Metal ☐ Plastic ☐ Glass ☐ Paper ☐ Other (Specify) _____
**** Certification must be submitted***	If "Yes" Unit Packaging wgt.	No. per Container	If "Yes" Packaging wgt.	No. per Container	

3. Location of Net Contents Information	4. Size(s) Retail Container	5. Location of Label Directions
☐ Label ☐ Container		☐ On Label ☐ On Labeling accompanying product

6. Manner in Which Label is Affixed to Product ☐ Lithograph ☐ Paper Glued ☐ Stenciled ☐ Other _____

Section - IV

1. Contact Point *(Complete items directly below for identification of individual to be contacted, if necessary, to process this application..)*

Name	Title	Telephone No. (Include Area Code)
Linda J. Fane	Research Scientist	630-305-1455

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

2. Signature	3. Title	6. Date Application Received (Stamped)
Linda J Fane/jm	Research Scientist	
4. Typed Name Linda J. Fane	5. Date July 1, 2011	

EPA Form 8570-1 (Rev. 3-94) Previous editions are obsolete. **White – EPA File Copy (original) Yellow – Applicant copy**

Pages 213-216*Confidential Statement of Formula may be entitled to confidential treatment*