

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



United States
Environmental Protection
Agency

Office of Pesticide Programs

Nalco Company
1601 West Diehl Road
Naperville, IL 60563

APR 16 2010

AGENT: Steptoe and Johnson
1330 Connecticut Avenue, N.W.
Washington, D. C. 20036

Attention: Linda J. Fane
Staff Product Chemist

Subject: Nalco F78L7-M
EPA Registration No. 1706-153
Amendment Dated March 16, 2010

The amendment, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, to add new uses and change the primary brand name, is acceptable, provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3©(5) and sec. 4 when the Agency requires all registrants of similar products to submit such data.
2. Submit two (2) copies of final printed labeling before you release the product for shipment.
3. The company's request to change the primary brand name from "Nalco 7330" to Nalco F78I7-M" is acceptable.
4. As per the company request, the name "Nalco 7330" has been changed to an additional brand name.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

Page 2
EPA Registration No. 1706-153

A stamped copy of the "accepted" product labeling is enclosed for your records.

If you have any questions concerning this letter, please contact Martha Terry at (703) 308-6217.

Sincerely



Marshall Swindell
Product Manager 33
Regulatory Management Branch 1
Antimicrobials Division (7510P)

Enclosures

2/2

PRECAUTIONARY STATEMENTS: HAZARDS TO HUMANS AND DOMESTIC ANIMALS



Nalco F78L7-M

DANGER. CORROSIVE. CAUSES IRREVERSIBLE EYE DAMAGE OR SKIN BURNS. HARMFUL IF INHALED, SWALLOWED OR ABSORBED THROUGH SKIN. Do not get in eyes, on skin or on clothing. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals. Mixers, loaders, and others exposed to this product must wear: long-sleeved shirt and long pants; chemical resistant gloves such as nitrile or butyl rubber; shoes plus socks; goggles and face shield; and chemical resistant apron. Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling the product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly. Do not apply this product in a way that will contact workers or other persons.

A MICROBIOCIDAL FOR CONTROL OF BACTERIA, FUNGI AND ALGAL RECIRCULATING WATER COOLING TOWERS, INDUSTRIAL PROCESS WASH WASHER SYSTEMS, BREWERY PASTEURIZERS, PAPERMILL WATERS, AND SOLUTION PRESERVATION, COATING PRESERVATION, DISINFECTION PRESERVATION, ULTRAFILTRATION UNITS, REVERSE OSMOSIS MEMBRANE SYSTEMS, ELECTRODEPOSITION SYSTEMS, OIL FIELD INJECTION SYSTEMS, AND HYDRAULIC FLUIDS

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and wildlife. 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 sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA. Do not contaminate water by cleaning of equipment or disposal of waste. Apply this pesticide only as specified on this label.

ACTIVE INGREDIENTS:	
5-Chloro-2-methyl-4-isothiazolin-3-one.....	1.11%
2-Methyl-4-isothiazolin-3-one.....	0.39%
INERT INGREDIENTS.....	98.50%
TOTAL.....	100.00%

This product contains the active ingredients at 0.127 pounds per gallon

**KEEP OUT OF REACH OF CHILDREN
DANGER PELIGRO**

PHYSICAL AND CHEMICAL HAZARDS

This product is corrosive to mild steel. Do not store or transport in unlined metal containers.

FIRST AID

- If swallowed:**
- Call a poison control center or a doctor immediately for treatment advice.
 - DO NOT INDUCE VOMITING.
 - Do not give anything to drink.
- If in eyes:**
- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
 - Remove contact lenses, if present, after the first 5 minutes, then continue rinsing for 15 minutes or until it is judged that nearly all of the contamination has been removed.
 - Call a poison control center or a doctor immediately for treatment advice.
- If on skin or clothing:**
- 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 inhaled:**
- Move person to fresh air.
 - If person is not breathing, call 911 or an ambulance, and then give artificial respiration - mouth-to-mouth if possible.
 - Call a poison control center or a doctor for further treatment advice.
- NOTE TO PHYSICIAN:**
Aspiration may cause lung damage. Probable mucosal damage may contraindicate lavage.
- Have the MSDS and, if available, the product container or label with you when you call a poison control center or a doctor, or going for treatment.

STORAGE AND DISPOSAL

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

(Instructions for refillable containers:)
Container Disposal: 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 Disposal: Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse (or equivalent) container promptly after emptying. Triple rinse as follows: Empty remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling, if available, or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedure approved by state and local authorities.

(Instructions for non-refillable containers 5 gallons or less:)
Container Disposal: Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse (or equivalent) container promptly after emptying. Triple rinse as follows: Empty remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling, if available, or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedure approved by state and local authorities.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

**ACCEPTED with COMMENTS
EPA Letter Dated:**

APR 16 2010 Nalco Company
1601 West Ditch Road
Naperville, IL 60563-1198

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended for the pesticide, EPA Reg. No. 1706-153

Net Contents Shown Elsewhere on Container

Revised: 03/12/2010

UN 3265, Corrosive Liquid, Acidic, Organic, N.O.S. (5-chloro-2-methyl-4-isothiazolinone Microbicide), 8, II

TO HUMANS AND DOMESTIC



Nalco F78L7-M

IBLE EYE DAMAGE OR SKIN
: ABSORBED THROUGH SKIN. Do
/ repeated skin contact may cause allergic
d to this product must wear: long-sleeved
nyl rubber; shoes plus socks; goggles and
other absorbent materials that have been
entrate. Do not reuse them. Follow
such instructions for washables exist, use
other laundry. Users should wash hands
the toilet. Users should remove clothing
ut on clean clothing. Users should remove
of gloves before removing. As soon as
will contact workers or other persons.

HAZARDS
ffluent containing this product into lakes,
dange, with the requirements of a National
e permitting authority has been notified in
ng, this product to sewer systems without
ndance, contact your State Water Board or
aning of equipment or disposal of waste.

HAZARDS
n unlined metal containers.

DISAL
: or disposal. Open dumping is prohibited.
excess pesticide, spray mixture, or rinsate is
d of by use according to label instructions
r the Hazardous Waste representative at the

er with pesticide only. Do not reuse this
e final disposal is the responsibility of the
e responsibility of the refiller. To clean the
m this container into application equipment
Agitate vigorously or recirculate water with
on equipment or rinsate collection system.
recycling, if available, or reconditioning, or
re approved by state and local authorities.

ian 5 gallons:)
r refill this container. Offer for recycling, if
emptying. Triple rinse as follows: Empty
drain for 10 seconds after the flow begins to
r 10 seconds. Pour rinsate into application
.. Drain for 10 seconds after the flow begins
recycling, if available, or reconditioning, or
fure approved by state and local authorities.

or less:)
r refill this container. Offer for recycling, if
emptying. Triple rinse as follows: Empty
drain for 10 seconds after the flow begins to
r 10 seconds. Pour rinsate into application
.. Drain for 10 seconds after the flow begins
recycling, if available, or reconditioning, or
fure approved by state and local authorities.

on Container

A MICROBIOCIDIC FOR CONTROL OF BACTERIA, FUNGI AND ALGAE IN INDUSTRIAL
RECIRCULATING WATER COOLING TOWERS, INDUSTRIAL PROCESS WATER SYSTEMS, AIR
WASHER SYSTEMS, BREWERY PASTEURIZERS, PAPERMILL WATERS, POLYMER LATEX
AND SOLUTION PRESERVATION, COATING PRESERVATION, DISPERSED PIGMENT
PRESERVATION, ULTRAFILTRATION UNITS, REVERES OSMOSIS MEMBRANES, PERIPHERAL
SYSTEMS, ELECTRODEPOSITION SYSTEMS, OIL FIELD INJECTION WATERS,
METALWORKING FLUIDS, AND HYDRAULIC FLUIDS

ACTIVE INGREDIENTS:	
5-Chloro-2-methyl-4-isothiazolin-3-one.....	1.11%
2-Methyl-4-isothiazolin-3-one.....	0.39%
INERT INGREDIENTS.....	98.50%
TOTAL.....	100.00%

This product contains the active ingredients at 0.127 pounds per gallon

**KEEP OUT OF REACH OF CHILDREN
DANGER PELIGRO**

FIRST AID

If swallowed:

- Call a poison control center or a doctor immediately for treatment advice.
- DO NOT INDUCE VOMITING.
- Do not give anything to drink.

If in eyes:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing for at least 15 minutes or until it is judged that nearly all of the contamination has been removed.
- Call a poison control center or a doctor immediately for treatment advice.

If on skin or clothing:

- 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 inhaled:

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

NOTE TO PHYSICIAN:
Aspiration may cause lung damage. Probable mucosal damage may contraindicate the use of gastric lavage.

Have the MSDS and, if available, the product container label with you when calling a poison control center or a doctor, or going for treatment.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

**ACCEPTED
with COMMENTS
EPA Letter Dated:**

APR 16 2010 Nalco Company
1601 West Diehl Road
Naperville, IL 60563-1198

Under the Federal Insecticide
and Rodenticide Act as

for the pesticide,
Nalco F78L7-M (5-Chloro-2-methyl-4-isothiazolinone Microbiocide), 8, II
EPA Reg. No. 1706-153

N 3265, Corrosive Liquid, Acidic, Organic, N.O.S. (5-Chloro-2-methyl-4-isothiazolinone Microbiocide), 8, II

It is a violation of Federal Law to

INDUSTRIAL COOLING TOWE
(Such as pretreatment systems ai
and/or paint reduction.) For contr
tower basin, distribution box or
Badly fouled systems must be prec

INITIAL DOSE: When the system
(ounces) of NALCO F78L7-M per
achieved.

SUBSEQUENT DOSE: When mi
(ounces) of NALCO F78L7-M per
maintain control.

INDUSTRIAL RECIRCULA
For the control of bacteria, al
recirculating line or some other pc

INITIAL DOSE: When the system
(ounces) of NALCO F78L7-M per
achieved.

SUBSEQUENT DOSE: When r
F78L7-M (0.3 to 1.86 pounds or
of in the system) weekly or as i
cleaned before treatment is begun.

AIR WASHER SY
For control of bacteria, algae and
uniform mixing can occur such
SYSTEMS THAT MAINTAIN E
fouled systems must be precleaned

INITIAL DOSE: When the syste
(ounces) of NALCO F78L7-M
achieved.

SUBSEQUENT DOSE: When mi
(ounces) of NALCO F78L7-M pe
control.

NALCO F78L7-M is recommen
production of paper.

POINT OF ADDITION: NALCC
uniform mixing such as the Beate

DOSAGE: Apply 0.44 to 1.5 lb
basis) of pulp or paper produced
should be cleaned before initial tr

POLYMER LA
NALCO F78L7-M is recommend
storage of synthetic and natu
styrene/butadiene; carboxylated



Nalco F78L7-M

FOR CONTROL OF BACTERIA, FUNGI AND ALGAE IN INDUSTRIAL WATER COOLING TOWERS, INDUSTRIAL PROCESS WATER SYSTEMS, AIR IS, BREWERY PASTEURIZERS, PAPERMILL WATERS, POLYMER LATEX PRESERVATION, COATING PRESERVATION, DISPERSED PIGMENT ULTRAFILTRATION UNITS, REVERES OSMOSIS MEMBRANES, PERIPHERAL ELECTRODEPOSITION SYSTEMS, OIL FIELD INJECTION WATERS, FLUIDS, AND HYDRAULIC FLUIDS

ACTIVE INGREDIENTS:	
-4-isothiazolin-3-one.....	1.11%
zolin-3-one.....	0.39%
INERTS.....	98.50%
.....	100.00%

Each product contains the active ingredients at 0.127 pounds per gallon

**KEEP OUT OF REACH OF CHILDREN
DANGER PELIGRO**

FIRST AID

IF SWALLOWED: Call poison control center or a doctor immediately for treatment advice. If vomiting, do not induce vomiting. If not drinking, give small sips of water to drink.

IF ON SKIN: Rinse slowly and gently with water for 15-20 minutes. Remove lenses, if present, after the first 5 minutes, then continue rinsing for at least 15 minutes. If it is judged that nearly all of the contamination has been removed, call poison control center or a doctor immediately for treatment advice.

IF IN EYES: Flush with plenty of water for 15-20 minutes. Call poison control center or a doctor for treatment advice.

IF INHALED: Get fresh air. If breathing is difficult, call 911 or an ambulance, and then give artificial respiration, preferably by mouth-to-mouth, if possible. Call poison control center or a doctor for further treatment advice.

IF ON CLOTHING: Remove contaminated clothing. Wash thoroughly. Dry separately with plenty of water for 15-20 minutes. Call poison control center or a doctor for treatment advice.

IF ON HANDS: Wash with soap and water. If irritation occurs, call 911 or an ambulance, and then give artificial respiration, preferably by mouth-to-mouth, if possible. Call poison control center or a doctor for further treatment advice.

IF ON FACE: Wash with plenty of water for 15-20 minutes. Call poison control center or a doctor for treatment advice.

IF ON EYES: Flush with plenty of water for 15-20 minutes. Call poison control center or a doctor for treatment advice.

IF ON SKIN: Rinse slowly and gently with water for 15-20 minutes. Remove lenses, if present, after the first 5 minutes, then continue rinsing for at least 15 minutes. If it is judged that nearly all of the contamination has been removed, call poison control center or a doctor immediately for treatment advice.

IF INHALED: Get fresh air. If breathing is difficult, call 911 or an ambulance, and then give artificial respiration, preferably by mouth-to-mouth, if possible. Call poison control center or a doctor for further treatment advice.

IF ON CLOTHING: Remove contaminated clothing. Wash thoroughly. Dry separately with plenty of water for 15-20 minutes. Call poison control center or a doctor for treatment advice.

IF ON HANDS: Wash with soap and water. If irritation occurs, call 911 or an ambulance, and then give artificial respiration, preferably by mouth-to-mouth, if possible. Call poison control center or a doctor for further treatment advice.

IF ON FACE: Wash with plenty of water for 15-20 minutes. Call poison control center or a doctor for treatment advice.

IF ON EYES: Flush with plenty of water for 15-20 minutes. Call poison control center or a doctor for treatment advice.

IF ON SKIN: Rinse slowly and gently with water for 15-20 minutes. Remove lenses, if present, after the first 5 minutes, then continue rinsing for at least 15 minutes. If it is judged that nearly all of the contamination has been removed, call poison control center or a doctor immediately for treatment advice.

ADDITIONAL PRECAUTIONARY STATEMENTS

COMMENTS

Letter Dated:

16/2010 Nalco Company
1601 West Dixie Road
Naperville, IL 60563-1198
EMERGENCY PHONE NO. (800) 424-9300
EPA Reg. No. 1706-153
(4-isothiazolinone Microbiocide), 8, II

DIRECTIONS FOR USE

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

INDUSTRIAL COOLING TOWER SYSTEMS AND PROCESS WATER SYSTEMS
(Such as pretreatment systems and process waters used for washing metal or plastic parts and/or paint reduction.) For control of bacteria, fungi and algae, add NALCO F78L7-M to the tower basin, distribution box or some other point in the system to insure uniform mixing. Badly fouled systems must be precleaned before treatment is begun.

INITIAL DOSE: When the system is noticeably fouled apply 2.46 to 7.46 lbs. (37 to 113 fluid ounces) of NALCO F78L7-M per 1000 gallons of water in the system. Repeat until control is achieved.

SUBSEQUENT DOSE: When microbial control is evident, add 1.26 to 1.86 lbs. (19 to 28 fluid ounces) of NALCO F78L7-M per 1000 gallons of water in the system weekly or as needed to maintain control.

INDUSTRIAL RECIRCULATING CLOSED LOOP WATER COOLING SYSTEMS
For the control of bacteria, algae and fungi add NALCO F78L7-M to the reservoir, recirculating line or some other point in the system to insure uniform mixing.

INITIAL DOSE: When the system is noticeably fouled, apply 1.26 to 7.46 lbs. (19 to 113 fluid ounces) of NALCO F78L7-M per 1000 gallons of water in the system. Repeat until control is achieved.

SUBSEQUENT DOSE: When microbial control is evident, add 35 to 219 ppm NALCO F78L7-M (0.3 to 1.86 pounds or 4.5 to 28 fluid ounces of NALCO F78L7-M per 1000 gallons of in the system) weekly or as needed to maintain control. Badly fouled systems must be cleaned before treatment is begun.

AIR WASHER SYSTEMS AND BREWERY PASTEURIZERS
For control of bacteria, algae and fungi, add NALCO F78L7-M to a point in the system where uniform mixing can occur such as the basin. FOR USE IN INDUSTRIAL AIR WASHER SYSTEMS THAT MAINTAIN EFFECTIVE MIST ELIMINATING COMPONENTS. Badly fouled systems must be precleaned before treatment is begun.

INITIAL DOSE: When the system is noticeably fouled, add 1.26 to 7.46 lbs. (19 to 113 fluid ounces) of NALCO F78L7-M per 1000 gallons of system water. Repeat until control is achieved.

SUBSEQUENT DOSE: When microbial control is evident, add 0.3 to 1.86 lbs. (4.5 to 28 fluid ounces) of NALCO F78L7-M per 1000 gallons system water weekly or as needed to maintain control.

PAPERMILL WATERS

NALCO F78L7-M is recommended for the control of bacterial and fungal slime in the production of paper.

POINT OF ADDITION: NALCO F78L7-M should be added to a point in the system to insure uniform mixing such as the Beater, Hydropulper, or Fan or Broke Storage Pumps.

DOSAGE: Apply 0.44 to 1.5 lbs. (7 to 23 fluid ounces) of NALCO F78L7-M per ton (dry basis) of pulp or paper produced as a slug dose. If needed repeat daily. Badly fouled systems should be cleaned before initial treatment.

POLYMER LATEX AND SOLUTION PRESERVATION

NALCO F78L7-M is recommended for the control of bacteria and fungi in the manufacture and storage of synthetic and natural polymer lattices and solutions including: acrylic; styrene/butadiene; carboxylated styrene/butadiene; ethylene/vinyl acetate; and biopolymers

4-isothiazolinone Microbiocide), 8, II
EPA Reg. No. 1706-153
EMERGENCY PHONE NO. (800) 424-9300
Naperville, IL 60563-1198
1601 West Dixie Road
Nalco Company
16/2010

intended for industrial use, such as xanthan gum, gum arabic, guar gum, protein-derived polymers, starches, and casein-derived polymers.

Add 0.43 – 3.3 lbs. of NALCO F78L7-M (195 g. – 1.5 kg.) to each 1,000 lbs. (453.6 kg.) of emulsion or solution to provide 425 to 3,350 ppm product (6.25 to 50 ppm active isothiazolones).

NOTE: To insure uniform mixing, add NALCO F78L7-M to latex or solutions slowly with agitation. The actual concentrations required will depend upon such factors as the specific substance to be treated, frequency of repeated microbial contamination expected, and level of synthetic fiber finish coatings.

COATING PRESERVATION

NALCO F78L7-M is recommended as an in-container preservative for the control of bacteria and fungi in water-based coatings such as paper coatings or synthetic fiber finish coatings.

Add 0.43 – 1.65 lbs. of NALCO F78L7-M (195 – 750 g.) to each 1,000 lbs. (453 kg.) of fluid to provide 425 to 1,675 ppm product (6.25 to 25 ppm active isothiazolones).

DISPERSED PIGMENT PRESERVATION

NALCO F78L7-M is recommended for the control of bacteria and fungi in the manufacture and storage of dispersed pigments such as kaolin clay, montmorillite clay, titanium dioxide, calcium carbonate, calcium sulfate, barium sulfate, magnesium silicate, and kieselguhr used in paper production.

Add 0.43 – 1.65 lbs. of NALCO F78L7-M (195 – 750 g.) to each 1,000 lbs. (453 kg.) of fluid to provide 425 to 1,675 ppm product (6.25 to 25 ppm active isothiazolones).

ULTRA-FILTRATION UNITS, REVERSE OSMOSIS MEMBRANES AND PERIPHERAL SYSTEMS:

For controlling bacterial fouling of ultra-filtration units, non-medical or non-potable reverse osmosis membranes and peripheral systems, where approved for compatibility by the membrane manufacturer or demonstrated by other means to be compatible, add this product to the system inlet water or before any other contaminated area ahead of the Reverse Osmosis or Ultra-filtration unit. Addition should be made with a metering pump on a continuous basis depending on the severity of contamination when treatment is begun, and the guidelines specified by the membrane manufacturer or demonstrated by other means to be compatible. During use of this product for ultra-filtration units and reverse osmosis membranes, both permeate and reject water should be directed to the drain. Once treatment has been completed, rinsing with feedwater should be continued until conductivity values in the permeate are at or below values before treatment with this product.

FOR CONTROL OF BACTERIAL FOULING

When the system is noticeably fouled, add 2.75-16.5 fluid ounces Nalco® F78L7-M per 1000 gallons of feedwater (20-130 ppm). Product should be fed continuously for a time period of 1 to 24 hours 7 days each week depending on the severity of the problem. For off-line cleaning, Nalco® F78L7-M should be added to provide a level of 100-400 ppm (13.75-55 fluid ounces per 1000 gallons in the soak tank.)

ELECTRODEPOSITION SYSTEMS

For control of bacteria, and fungi in Electrodeposition Systems (such as automotive or industrial equipment systems) slug feed NALCO F78L7-M at a rate of 1 gallon per 1000 gallons of paint in the system (1000 ppm) as needed, depending upon results of cultures taken from the system.

INTERMITTENT OR SLUG METHOD

INITIAL DOSE: When the system is noticeably fouled, apply 148 to 883 ppm NALCO F78L7-M (1.26 to 7.46 pounds or 19 to 113 fluid ounces of NALCO F78L7-M per 1000 gallons of water in the system). Repeat until control is achieved.

Revised: 03/12/2010

UN 3265, Corrosive Liquid, Acidic, Organic, N.O.S. (Isothiazolinone Microbiocide), 8, II

SUBSEQUENT DOSE: When microbial control is evident, add 35 to 219 ppm (0.3 to 1.86 pounds or 4.5 to 28 fluid ounces per 1000 gallons of water in the system) or as needed to maintain control. Badly fouled systems must be cleaned before beginning.

CONTINUOUS FEED METHOD

INITIAL DOSE: When the system is noticeably fouled, apply 148 to 883 ppm (1.26 to 7.46 pounds or 19 to 113 fluid ounces of NALCO F78L7-M per 1000 gallons of water in the system).

SUBSEQUENT DOSE: Maintain this treatment level by adding a continuous feed of 35 to 219 ppm NALCO F78L7-M (0.3 to 1.86 pounds or 4.5 to 28 fluid ounces per 1000 gallons of makeup water). Badly fouled systems must be cleaned before initial treatment.

OILFIELD INJECTION WATERS:

For the control of slime forming bacteria and sulfate reducing bacteria in oilfield injection water, treat with 67-332 ppm NALCO F78L7-M depending on the severity of contamination.

INITIAL DOSE: Add 166-332 ppm NALCO F78L7-M (6.9-13.9 gallons per 1000 barrels of water) at a point in the system where it will be uniformly mixed. Repeat after three days or as needed until control is achieved.

SUBSEQUENT DOSE: Add 67-166 ppm NALCO F78L7-M (2.8-6.9 gallons per 1000 barrels of water) every seven days or as needed to maintain control.

METALWORKING FLUIDS

NALCO F78L7-M is recommended for the control of bacteria and fungi in emulsifiable-type aqueous metalworking fluids.

For the maintenance of a nonfouled system, use NALCO F78L7-M at 32 fluid ounces per 1000 gallons of emulsion (2 pound) every 4 weeks or 32-154 fluid ounce per 1000 gallons (2-10 pound) every 8-12 weeks.

For a noticeably fouled system use an initial dose of 64-154 fluid ounce per 1000 gallons (4-10 pound) to be followed by subsequent maintenance dosages at the treatment interval noted above. A higher dosage range and/or increased frequency may be required depending upon rate of dilution of the preservative with metalworking fluid, the nature and severity of contamination, level of control required, filtration efficiency, design, etc.

The preservative should be dispensed into the use-dilution of the metalworking fluid using a metering pump.

HYDRAULIC FLUIDS

NALCO F78L7-M is recommended as a preservative for use in the manufacture and storage of high water-based hydraulic fluids and invert emulsion hydraulic fluid type emulsifying 40% by volume water in 60% by volume of mineral oil using emulsifying agent.

For the maintenance of a nonfouled system, use NALCO F78L7-M at 11 fluid ounces per 1000 gallon fluid every 8 weeks. For a noticeably fouled system, use an initial dose of 135-235 fluid ounce (8.8-15.4 pound) per 1000 gallon fluid followed by subsequent maintenance dosages. A higher dosage range and/or increased frequency may be required depending upon rate of dilution of the preservative with hydraulic fluid, the nature and severity of contamination, level of control required, effectiveness, system design, etc. The preservative should be dispensed into the hydraulic fluid using a metering pump and uniformly dispersed throughout the system.

EPA REG. NO. 1706-153

EPA Establishment numbers may include the following. (Letters in () that immediately follow the establishment number identify the establishment number.)

1706-CA-
1706-IL-1 (BP); 1
1706-WA-1
68708-TX

bic, guar gum, protein-derived
each 1,000 lbs. (453.6 kg.) of
luct (6.25 to 50 ppm active

SUBSEQUENT DOSE: When microbial control is evident, add 35 to 219 ppm NALCO F78L7-M (0.3 to 1.86 pounds or 4.5 to 28 fluid ounces per 1000 gallons of water in the system). Weekly or as needed to maintain control. Badly fouled systems must be cleaned before treatment is begun.

CONTINUOUS FEED METHOD

INITIAL DOSE: When the system is noticeably fouled, apply 148 to 883 ppm NALCO F78L7-M (1.26 to 7.46 pounds or 19 to 113 fluid ounces of NALCO F78L7-M per 1000 gallons of water in the system).

SUBSEQUENT DOSE: Maintain this treatment level by adding a continuous feed of 35 to 219 ppm NALCO F78L7-M (0.3 to 1.86 pounds or 4.5 to 28 fluid ounces per 1000 gallons of makeup water). Badly fouled systems must be cleaned before initial treatment.

latex or solutions slowly with
on such factors as the specific
contamination expected, and level of
lead of the
7-M per 1000
g pump on
is a b
ative for the control of bacteria
hetic fiber finish coatings.

OILFIELD INJECTION WATERS:

For the control of slime forming bacteria and sulfate reducing bacteria in oil field waters, slug treat with 67-332 ppm NALCO F78L7-M depending on the severity of contamination.

ch 1,000 lbs. (453 kg.) of fluid
thiazolones).

INITIAL DOSE: Add 166-332 ppm NALCO F78L7-M (6.9-13.9 gallons or 58.0-116.8 lbs. per 1000 barrels of water) at a point in the system where it will be uniformly mixed. Repeat treatment after three days or as needed until control is achieved.

SUBSEQUENT DOSE: Add 67-166 ppm NALCO F78L7-M (2.8-6.9 gallons or 23.5-58.0 lbs. per 1000 barrels of water) every seven days or as needed to maintain control.

TION
nd fungi in the manufacture and
brillite clay, titanium dioxide,
silicate, and kieselguhr used in

METALWORKING FLUIDS

NALCO F78L7-M is recommended for the control of bacteria and fungi in soluble and emulsifiable-type aqueous metalworking fluids.

ch 1,000 lbs. (453 kg.) of fluid
thiazolones).

For the maintenance of a nonfouled system, use NALCO F78L7-M at 32 fluid ounce per 1000 gallon of emulsion (2 pound) every 4 weeks or 32-154 fluid ounce per 1000 gallon emulsion (2-10 pound) every 8-12 weeks.

IRANES AND PERIPHERAL
medical or non-potable reverse
ed for compatibility by the
compatible, add this product to
lead of the Reverse Osmosis or
g pump on a continuous basis
is begun, and the guidelines
other means to be compatible.
se osmosis membranes, both
treatment has been completed,
alues in the permeate are at or

For a noticeably fouled system use an initial dose of 64-154 fluid ounce per 1000 gallon emulsion (4-10 pound) to be followed by subsequent maintenance dosages depending upon the treatment interval noted above. A higher dosage range and/or increased frequency of treatment may be required depending upon rate of dilution of the preservative with makeup fluid, the nature and severity of contamination, level of control required, filtration effectiveness, system design, etc.

The preservative should be dispensed into the use-dilution of the metalworking fluid using a metering pump.

HYDRAULIC FLUIDS

NALCO F78L7-M is recommended as a preservative for use in the manufacture and use of high water-based hydraulic fluids and invert emulsion hydraulic fluid typically prepared by emulsifying 40% by volume water in 60% by volume of mineral oil using an oil-soluble emulsifying agent.

es Nalco® F78L7-M per 1000
inuously for a time period of 1
problem. For off-line cleaning,
0 ppm (13.75-55 fluid ounces

For the maintenance of a nonfouled system, use NALCO F78L7-M at 110-135 fluid ounce (7.2-8.8 pound) per 1000 gallon fluid every 8 weeks. For a noticeably fouled system, use an initial dose of 135-235 fluid ounce (8.8-15.4 pound) per 1000 gallon fluid to be followed by subsequent maintenance dosages. A higher dosage range and/or increased frequency of treatment may be required depending upon rate of dilution of the preservative with the makeup fluid, the nature and severity of contamination, level of control required, filtration effectiveness, system design, etc. The preservative should be dispensed into the use-dilution of the hydraulic fluid using a metering pump and uniformly dispersed throughout the system.

is
ms (such as automotive or
t a rate of 1 gallon per 1000
upon results of cultures taken

EPA REG. NO. 1706-153

EPA Establishment numbers may include the following. (Letters in () that match the prefix in batch number identify the establishment number.)

to 883 ppm NALCO F78L7-M
7-M per 1000 gallons of water

, Corrosive Liquid, Acidic, Organic, N.O.S. (Isothiazolinone Microbiocide), 8, II

8/8

SE: When microbial control is evident, add 35 to 219 ppm NALCO F78L7-M (0.3 to 4.5 fluid ounces per 1000 gallons of water in the system). Weekly maintain control. Badly fouled systems must be cleaned before treatment is

1706-CA-1 (CR); 1706-CN-1 (BU);
1706-IL-1 (BP); 1706-LA-1 (GV); 1706-PA-1 (EL);
1706-WA-1 (VW); 68708-OK-1 (TU);
68708-TX-1 (SL); 68708-TX-3 (DS)

FEED METHOD

When the system is noticeably fouled, apply 148 to 883 ppm NALCO F78L7-M (19 to 113 fluid ounces of NALCO F78L7-M per 1000 gallons of water)

SE: Maintain this treatment level by adding a continuous feed of 35 to 219 ppm NALCO F78L7-M (0.3 to 1.86 pounds or 4.5 to 28 fluid ounces per 1000 gallons of water). Badly fouled systems must be cleaned before initial treatment.

OILFIELD INJECTION WATERS:

Slime forming bacteria and sulfate reducing bacteria in oil field waters, slug NALCO F78L7-M depending on the severity of contamination.

SE: Add 166-332 ppm NALCO F78L7-M (6.9-13.9 gallons or 58.0-116.8 lbs. of water) at a point in the system where it will be uniformly mixed. Repeat every 7 days or as needed until control is achieved.

DOSE: Add 67-166 ppm NALCO F78L7-M (2.8-6.9 gallons or 23.5-58.0 lbs. of water) every seven days or as needed to maintain control.

METALWORKING FLUIDS

SE: It is recommended for the control of bacteria and fungi in soluble and aqueous metalworking fluids.

SE: For a nonfouled system, use NALCO F78L7-M at 32 fluid ounce per 1000 gallons (4.0 pound) every 4 weeks or 32-154 fluid ounce per 1000 gallon emulsion every 8-12 weeks.

SE: For a fouled system use an initial dose of 64-154 fluid ounce per 1000 gallon (8.0-19.3 pounds) to be followed by subsequent maintenance dosages depending upon the severity of contamination. A higher dosage range and/or increased frequency of treatment may be required depending upon rate of dilution of the preservative with makeup fluid, the severity of contamination, level of control required, filtration effectiveness, system design, etc.

The preservative should be dispensed into the use-dilution of the metalworking fluid using a metering pump and uniformly dispersed throughout the system.

HYDRAULIC FLUIDS

SE: It is recommended as a preservative for use in the manufacture and use of hydraulic fluids and invert emulsion hydraulic fluid typically prepared by 60% by volume water in 60% by volume of mineral oil using an oil-soluble

SE: For a nonfouled system, use NALCO F78L7-M at 110-135 fluid ounce per 1000 gallon fluid every 8 weeks. For a noticeably fouled system, use an initial dose of 235 fluid ounce (29.4 pound) per 1000 gallon fluid to be followed by maintenance dosages. A higher dosage range and/or increased frequency of treatment may be required depending upon rate of dilution of the preservative with the makeup fluid and severity of contamination, level of control required, filtration effectiveness, system design, etc. The preservative should be dispensed into the use-dilution of the hydraulic fluid using a metering pump and uniformly dispersed throughout the system.

EPA REG. NO. 1706-153

ACCEPTED
with COMMENTS
EPA Letter Dated:

APR 2010

Registered under the Federal Insecticide,
Fungicide, and Rodenticide Act as
a preservative for the pesticide,
Isotiazolinone Microbiocide, registered under EPA Reg. No. 1706-153

SE: The following numbers may include the following. (Letters in () that match the prefix in the batch number identify the establishment number.)

Isotiazolinone Microbiocide), 8, II