

US ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (TS-767) WASHINGTON, DC 20460	EPA REGISTRATION NO. 11541-12	DATE OF ISSUANCE JAN 15 1986
	TERM OF ISSUANCE	
	NAME OF PESTICIDE PRODUCT O'Brien Alge-120	

NOTICE OF PESTICIDE: REGISTRATION
 REREGISTRATION
 (Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended)

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)
 O'Brien Industries, Inc.
 95 Dorsa Avenue
 Livingston, NJ 07039

NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

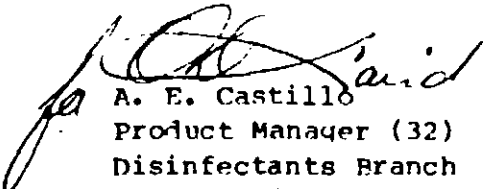
Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Add the phrase "EPA Registration No. 11541-12" to your label before you release the product for shipment.
3. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 Enclosure for a further description of final printed labeling.

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

A stamped copy of the label is enclosed for your records.


 A. E. Castillo
 Product Manager (32)
 Disinfectants Branch
 Registration Division (TS-767C)

Enclosures

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL	DATE
---------------------------------	------

JAN 28 1986

Controlled and Restricted
as indicated, for the pro-
cessed under EPA Reg.

11541-12

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

FOR INDUSTRIAL USE ONLY

Active Ingredients:

2,2-Dibromo-3-nitropropionamide 20%

Inert Ingredients: 80%

E.P.A. Registration No. 11541

E.P.A. Est. 11541-NJ-02

KEEP OUT OF REACH OF CHILDREN

DANGER

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUSES SEVERE BURNS OF EYES • EYE

CONTACT MAY CAUSE LOSS OF VISION • MAY

BURN THE SKIN • MAY BE HARMFUL OR

FATAL IF SWALLOWED

Do Not Get In Eyes, on Skin, or on Clothing • Chemical Worker's Goggles Must Be Worn When Handling • Wash Thoroughly After Handling

FIRST AID: In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician. In case of skin contact, immediately wash skin with soap and plenty of water. Wash contaminated clothing before reuse. Get medical attention if irritation persists. If swallowed, immediately induce vomiting by giving two glasses of water and sticking finger down throat. Repeat until vomit is clear. Call a physician. Never give anything by mouth to an unconscious person.

ENVIRONMENTAL HAZARDS

This product is toxic to fish. Apply this product only as specified on this label. Do not contaminate water by cleaning of equipment or disposal of wastes. **NOTE:** Do not discharge into lakes, streams, ponds, or other waters unless in accordance with a NPDES permit. For guidance, contact your regional office of the EPA.

In case of an emergency endangering life or property involving this product, call collect 216-721-6800

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

Storage: To maintain product quality, store at temperatures below 60°C. Keep container tightly closed when not in use.

Pesticide Disposal: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal: Do not reuse empty container. Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures 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 the labeling.

NOTE: ADD O'B Alge-120 SEPARATELY TO THE SYSTEM. DO NOT MIX IT WITH OTHER ADDITIVES. IN ORDER TO AVOID DECOMPOSITION OF O'B Alge-120 DUE TO THE HIGH pH OF MANY ADDITIVE FORMULATIONS.

PAPER MILLS

For the control of bacterial, fungal and yeast growths in pulp, paper, and paperboard mills, add O'B Alge 120 at the rate of 0.15-0.50 lb/ton of pulp or paper (dry basis). Addition may be continuous or intermittent, depending upon the type of system and the severity of contamination. It should be made with a metering pump at a location that will insure uniform distribution of O'B Alge-120 in the mass of fiber and water, such as the beaters, jordan inlet or discharge, broke chests, furnish chests, save-alls, and white-water tanks.

Heavily fouled systems should be boiled out, then treated with 0.15-0.35 lb O'B Alge-120/ton of paper (dry basis), as necessary for control.

Moderately fouled systems should be treated continuously with 0.35-0.50 lb O'B Alge-120/ton of paper (dry basis) until the slime accumulation is controlled. Addition rates can then be reduced to 0.15-0.35 lb O'B Alge-120/ton of paper on a continuous or intermittent basis, as needed for

BEST AVAILABLE COPY

contro
paper
be adv
Slight
ously
paper
added
MET
WAT
This p
centra
of 1 10
For co
fungi,
fluids
the flu
made
Initial
bly fo
gal of
contro
Subs
add C
metal
contro
mitter
ENH
For c
ducin
polym
other
O'B
per 2
cont
meter
Cont
When
O'B
desir
reat
O'B
Invo
Inter
When
cont
O'B
per 2
per d
depe

304

O'B-ALGE-120

BEST AVAILABLE COPY

Dislodged slime may cause breaks in the and a clean-up of the paper machine may be able.

fouled systems should be treated continuously 0.15-0.35 lb O'B Alge-120 (on a dry basis) until the slime is controlled, then on an intermittent basis to maintain control.

WORKING FLUIDS CONTAINING

duct is effective in metalworking fluid conditions which have been diluted in water at ratios 1:4

roll (inhibiting) the growth of bacteria and yeasts that may deteriorate metalworking containing water add O'B Alge-120 to in the collection tank. Additions should be with a metering pump.

Slug Dose: When the system is just fouled, add 0.25 gal O'B Alge-120 to the metalworking fluid to the system. Repeat until control is achieved.

Initial Dose: When microbial control is evident, add 0.12 gal O'B Alge-120 to 1,000 gal of working fluid per day, or as needed to maintain control. Additions can be made continuously or intermittently. Slug the system as required.

ICED OIL RECOVERY SYSTEMS

rolling slime-forming bacteria, sulfate-reducing bacteria, yeasts, and fungi in oil field water, brackish water, water disposal systems, or field water systems, add 1-8 ppm O'B Alge-120 (0.8-6.4 gal O'B Alge-120 per 2400 barrels of water) depending on the severity of contamination. Additions should be made with a pump either continuously or intermittently.

Continuous Feed Method

If system is noticeably fouled, add 10-80 ppm O'B Alge-120 (0.8-6.4 gal O'B Alge-120 per 2400 barrels of water) continuously until the point of control is achieved. Subsequent additions should be 3-12 ppm O'B Alge-120 (0.25-1 gal O'B Alge-120 per 2400 barrels of water) or as needed to maintain control.

Intermittent or Slug Method

If system is noticeably fouled, or to clean up a part of the system, add 10-80 ppm O'B Alge-120 (0.8-6.4 gal O'B Alge-120 per 2400 barrels of water) intermittently, 2-4 times a week from 1-4 times per week, or as needed, depending on the severity of contamination.

Addition of O'B Alge-120 may be made at the free water knockouts before or after the injection pumps and injection well headers.

NOTE: For control of bacteria, yeast, and fungi in aqueous solutions of biopolymer used in flooding operations, add 15-80 ppm O'B Alge-120 (1.2-6.4 gal O'B Alge-120 per 2400 barrels of water). Conditions of O'B Alge-120 should be maintained with a metering pump immediately after preparation of the aqueous biopolymer solution to prevent precipitation.

INDUSTRIAL RECIRCULATING WATER COOLING TOWERS

Add O'B Alge-120 to the basin (or any other point of uniform mixing). Addition should be made with a metering pump. It may be continuous or intermittent, depending on the severity of the contamination when treatment is begun, and the retention time in the system.

Optimum performance with this product is attained by continuous or intermittent treatment. If "shock" treatment is used, the breakdown should be discontinued for 24-48 hours.

FOR CONTROL OF BACTERIA

Add 0.00095-0.0095 gal O'B Alge-120 to 1,000 gal of water in the system, depending on the severity of contamination.

Intermittent or Slug Method

Initial Dose: When the system is noticeably fouled, add 0.0048-0.0095 gal O'B Alge-120 to 1,000 gal of water in the system. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 0.0024-0.0095 gal O'B Alge-120 to 1,000 gal of water in the system every 4 days, 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, add 0.0048-0.0095 gal O'B Alge-120 to 1,000 gal of water to the system.

Subsequent Dose: Maintain this level by pumping a continuous feed of 0.00095-0.0048 gal O'B Alge-120 to 1,000 gal of water in the system per day.

Badly fouled systems must be cleaned before treatment is begun.

FOR CONTROL OF FUNGI AND ALGAE

Add 0.029-0.095 gal O'B Alge-120 to 1,000 gal of water in the system depending on the severity of contamination.

Intermittent or Slug Method

Initial Dose: When the system is noticeably fouled, add 0.048-0.095 gal O'B Alge-120 to 1,000 gal of water in the system. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 0.029-0.095 gal O'B Alge-120 to 1,000 gal of water in the system daily, 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, add 0.048-0.095 gal O'B Alge-120 to 1,000 gal of water to the system.

Subsequent Dose: Maintain this treatment level by pumping a continuous feed of 0.029-0.095 gal O'B Alge-120 to 1,000 gal of water in the system per day.

Badly fouled systems must be cleaned before treatment is begun.

ONCE-THROUGH INDUSTRIAL COOLING WATER SYSTEMS

For controlling bacteria, fungi, and algae in once-through and closed-cycle fresh and sea water cooling systems, cooling ponds, canals, and lagoons, add 0.1-1 ppm O'B Alge-120 to the system inlet water, or before any other contaminated area in the system. Addition should be made with a metering pump. It may be continuous or intermittent depending on the severity of the contamination when treatment is begun, and the retention time in the system.

FOR CONTROL OF BACTERIA

Add 1-12 ppm O'B Alge-120 based on the flow rate through the system, depending on the severity of contamination.

Intermittent Method

Initial Dose: When the system is noticeably fouled, add 6-12 ppm O'B Alge-120. Minimum treatment intervals should be 15 minutes. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 3-12 ppm O'B Alge-120 intermittently, 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, add 6-12 ppm O'B Alge-120 continuously to the system.

Subsequent Dose: When microbial control is evident, pump a continuous feed of 1-6 ppm O'B Alge-120 to the system.

Badly fouled systems must be cleaned before treatment is begun.

FOR CONTROL OF FUNGI AND ALGAE

Add 36-118 ppm O'B Alge-120 based on the flow rate through the system, depending on the severity of contamination.

Intermittent Method

Initial Dose: When the system is noticeably fouled, add 60-118 ppm O'B Alge-120 to the system. The minimum treatment interval should be 15 minutes. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 36-118 ppm O'B Alge-120 to the system daily or as needed to maintain control. The minimum treatment interval should be 15 minutes.

Badly fouled systems must be cleaned before treatment is begun.

Continuous Feed Method

Initial Dose: When the system is noticeably fouled, add 60-118 ppm O'B Alge-120 to the system.

Subsequent Dose: When microbial control is evident, pump a continuous feed of 36-118 ppm O'B Alge-120 to the system.

Badly fouled systems must be cleaned before treatment is begun.

AIR-WASHER SYSTEMS

Add 0.0015-0.095 gal O'B Alge-120 to 1,000 gal of water in the system, depending upon the severity of contamination to control slime-forming bacteria and fungi in industrial air-washer systems.

Intermittent or Slug Method

Initial Dose: When the system is noticeably fouled, add 0.003-0.095 gal O'B Alge-120 to 1,000 gal of water in the system. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 0.0015-0.047 gal O'B Alge-120 to 1,000 gal of water in the system every 2 days or as needed to maintain control.

120

BEST AVAILABLE COPY

20F4

...y be made at the
...er the injection
...st, and fungi in
...used in flooding
...Alge-120
...2400 barrels of
...120 should be
...ately after prepa-
...lution to prevent

COOLING WATER

...sin (or any other
...should be made
...continuous or
...erity of the con-
...h, and the reten-

...duct is attained
...ment, if "shock"
...ould be discon-

...e-120 1,000
...g on the severity

...noticeably fouled,
...e-120 1,000
...at until control

...ontrol is evident,
...e-120 1,000
...s, or as needed to

...ned before treat-

...noticeably fouled,
...e-120 1,000

...el by pumping a
...048 gal
...r in the system

...ned before treat-

FOR CONTROL OF FUNGI AND ALGAE

Add 0.029-0.095 gal O'B Alge-120 1,000 gal of water in the system depending on the severity of contamination.

Intermittent or Slug Method

Initial Dose: When the system is noticeably fouled, add 0.048-0.095 gal O'B Alge-120 1,000 gal of water in the system. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 0.029-0.095 gal O'B Alge-120 1,000 gal of water in the system daily, 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, add 0.048-0.095 gal O'B Alge-120 1,000 gal of water to the system.

Subsequent Dose: Maintain this treatment level by pumping a continuous feed of 0.029-0.095 gal O'B Alge-120 1,000 gal of water in the system per day.

Badly fouled systems must be cleaned before treatment is begun.

ONCE-THROUGH INDUSTRIAL COOLING WATER SYSTEMS

For controlling bacteria, fungi, and algae in once-through and closed-cycle fresh and sea water cooling systems, cooling ponds, canals, and lagoons, add O'B Alge-120 to the system inlet water or before any other contaminated area in the system. Addition should be made with a metering pump. It may be continuous or intermittent depending on the severity of the contamination when treatment is begun, and the retention time in the system.

FOR CONTROL OF BACTERIA

Add 1-12 ppm O'B Alge-120 based on the flow rate through the system, depending on the severity of contamination.

Intermittent Method

Initial Dose: When the system is noticeably fouled, add 6-12 ppm O'B Alge-120. Minimum treatment intervals should be 15 minutes. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 3-12 ppm O'B Alge-120 intermittently, 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, add 6-12 ppm O'B Alge-120 continuously to the system.

Subsequent Dose: When microbial control is evident, pump a continuous feed of 1-6 ppm O'B Alge-120 to the system.

Badly fouled systems must be cleaned before treatment is begun.

FOR CONTROL OF FUNGI AND ALGAE

Add 36-118 ppm O'B Alge-120 based on the flow rate through the system, depending on the severity of contamination.

Intermittent Method

Initial Dose: When the system is noticeably fouled, add 60-118 ppm O'B Alge-120 to the system. The minimum treatment interval should be 15 minutes. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 36-118 ppm O'B Alge-120 to the system daily or as needed to maintain control. The minimum treatment interval should be 15 minutes.

Badly fouled systems must be cleaned before treatment is begun.

Continuous Feed Method

Initial Dose: When the system is noticeably fouled, add 60-118 ppm O'B Alge-120 to the system.

Subsequent Dose: When microbial control is evident, pump a continuous feed of 36-118 ppm O'B Alge-120 to the system.

Badly fouled systems must be cleaned before treatment is begun.

AIR-WASHER SYSTEMS

Add 0.0015-0.095 gal O'B Alge-120 1,000 gal of water in the system, depending upon the severity of contamination to control slime-forming bacteria and fungi in industrial air-washer systems.

Intermittent or Slug Method

Initial Dose: When the system is noticeably fouled, add 0.003-0.095 gal O'B Alge-120 1,000 gal of water in the system. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 0.0015-0.047 gal O'B Alge-120 1,000 gal of water in the system every 2 days 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, add 0.003-0.095 gal O'B Alge-120 1,000 gal of water in the system.

Subsequent Dose: Maintain this level by pumping a continuous feed of 0.0015-0.047 gal O'B Alge-120 1,000 gal of water in the system per day.

Badly fouled systems must be cleaned before treatment is begun.

Note: For use only in industrial air-washer systems that maintain effective mist-eliminating components.

Notice: Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, express or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.



NOTICE

Do Not Ship or Store with Food, Feeds, Drugs, or Clothing

net	kg/	lb
-----	-----	----



O'Brien Industries Inc.

2686 Lisbon Road
Cleveland-1, Ohio 44104
15 Drive Avenue
Livingston, N.J. 07039

A Zimkan Enterprises Company

LOT MM

O'Brien Industries, Inc.
95 Dorsa Avenue
Livingston, NJ 07039

NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

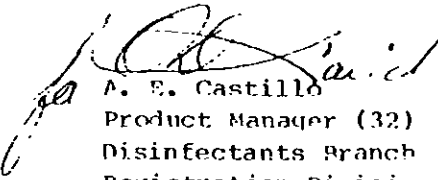
Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Add the phrase "EPA Registration No. 11541-12" to your label before you release the product for shipment.
3. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 Enclosure for a further description of final printed labeling.

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

A stamped copy of the label is enclosed for your records.


A. E. Castillo
Product Manager (32)
Disinfectants Branch
Registration Division (TS-7670)

Enclosures

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

DATE

JAN 15 1986

Use of this product in
Pulp and Paper
as amended, for the
Registered under EPA
11541-12

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

FOR INDUSTRIAL USE ONLY

Active Ingredients:
2,2-Dibromo-3-nitropropionamide 20%
Inert Ingredients: 80%
E.P.A. Registration No. 11541
E.P.A. Est. 11541-NJ-02

KEEP OUT OF REACH OF CHILDREN

DANGER

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals
CAUSES SEVERE BURNS OF EYES • EYE CONTACT MAY CAUSE LOSS OF VISION • MAY BURN THE SKIN • MAY BE HARMFUL OR FATAL IF SWALLOWED

Do Not Get In Eyes, on Skin, or on Clothing • Chemical Worker's Goggles Must Be Worn When Handling • Wash Thoroughly After Handling

FIRST AID: In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician. In case of skin contact, immediately wash skin with soap and plenty of water. Wash contaminated clothing before reuse. Get medical attention if irritation persists. If Swallowed, immediately induce vomiting by giving two glasses of water and sticking finger down throat. Repeat until vomit is clear. Call a physician. Never give anything by mouth to an unconscious person.

ENVIRONMENTAL HAZARDS

This product is toxic to fish. Apply this product only as specified on this label. Do not contaminate water by cleaning of equipment, or disposal of wastes. **NOTE:** Do not discharge into lakes, streams, ponds, or public waters unless in accordance with a NPDES permit. For guidance, contact your regional office of the EPA.

In case of an emergency endangering life or property involving this product, call collect 216-721-6800

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

Storage: To maintain product quality, store at temperatures below 60°C. Keep container tightly closed when not in use.

Pesticide Disposal: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal: Do not reuse empty container. Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures 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 the labeling.

NOTE: ADD O¹B Alge-120 SEPARATELY TO THE SYSTEM. DO NOT MIX IT WITH OTHER ADDITIVES IN ORDER TO AVOID DECOMPOSITION OF O¹B Alge-120 DUE TO THE HIGH PH OF MANY ADDITIVE FORMULATIONS.

PAPER MILLS

For the control of bacterial, fungal, and yeast growths in pulp, paper, and paperboard mills, add

O¹B Alge 120 at the rate of 0.15-0.50 lb./ton of pulp or paper (dry basis). Addition may be continuous or intermittent, depending upon the type of system and the severity of contamination. It should be made with a metering pump at a location that will insure uniform distribution of O¹B Alge-120 in the mass of fiber and water, such as the beaters, jordan inlet or discharge, broke chests, furnish chests, save-alls, and white-water tanks.

Heavily fouled systems should be boiled out, then treated with 0.15-0.35 lb O¹B Alge-120 /ton of paper (dry basis), as necessary for control.

Moderately fouled systems should be treated continuously with 0.35-0.50 lb O¹B Alge-120 /ton of paper (dry basis) until the slime accumulation is controlled. Addition rates can then be reduced to 0.15-0.35 lb O¹B Alge-120 /ton of paper on a continuous or intermittent basis, as needed.

O'B-ALGE-120

control. Dislodged slime may cause breaks in the paper and a clean-up of the paper machine may be advisable.

Slightly fouled systems should be treated continuously with 0.15-0.35 lb O'B Alge-120 per ton of paper (dry basis) until the slime is controlled, then added on an intermittent basis to maintain control.

METALWORKING FLUIDS CONTAINING WATER

This product is effective in metalworking fluid concentrates which have been diluted in water at ratios of 1:100-1:4.

For control (and inhibiting) the growth of bacteria, fungi, and yeasts that may deteriorate metalworking fluids containing water, add O'B Alge-120 to the fluid in the collection tank. Additions should be made with a metering pump.

Initial or Slug Dose: When the system is just noticeably fouled, add 0.25 gal O'B Alge-120 per 1,000 gal of metalworking fluid to the system. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 0.1-0.2 gal O'B Alge-120 per 1,000 gal of metalworking fluid per day, or as needed to maintain control. Additions can be made continuously or intermittently. Slug the system as required.

ENHANCED OIL RECOVERY SYSTEMS

For controlling slime-forming bacteria, sulfide-producing bacteria, yeasts, and fungi in oil field water, polymer or micellar floods, water-disposal systems, or other oil field water systems, add 1-80 ppm O'B Alge-120 (0.1-6.4 gal O'B Alge-120 per 2400 barrels of water) depending on the severity of contamination. Additions should be made with a metering pump either continuously or intermittently.

Continuous Feed Method

When the system is noticeably fouled, add 10-80 ppm O'B Alge-120 (0.8-6.4 gal O'B Alge-120 per 2400 barrels of water) continuously until the desired degree of control is achieved. Subsequently treat with 1-80 ppm O'B Alge-120 (0.1-6.4 gal O'B Alge-120 per 2400 barrels of water) continuously or as needed to maintain control.

Intermittent or Slug Method

When the system is noticeably fouled, or to maintain control of the system, add 10-80 ppm O'B Alge-120 (0.8-6.4 gal O'B Alge-120 per 2400 barrels of water) intermittently for 4-6 hours per day, and from 1-4 times per week, or as needed depending on the severity of contamination.

Addition of O'B Alge-120 may be made at the free water knockouts before or after the injection pumps and injection well headers.

NOTE: For control of bacteria, yeast, and fungi in aqueous solutions of biopolymer used in flooding operations, add 15-80 ppm O'B Alge-120 (1.2-6.4 gal O'B Alge-120 per 2400 barrels of water) depending on the severity of contamination. Additions should be made with a metering pump immediately after preparation of the aqueous biopolymer solution to prevent precipitation.

INDUSTRIAL RECIRCULATING WATER COOLING TOWERS

Add O'B Alge-120 to the basin (or any other point of uniform mixing). Addition should be made with a metering pump. It may be continuous or intermittent, depending on the severity of the contamination when treatment is begun, and the retention time in the system.

Optimum performance with this product is attained by continuous or intermittent treatment. If "shock" treatment is used, the flow should be discontinued for 24-48 hours.

FOR CONTROL OF BACTERIA

Add 0.00095-0.0095 gal O'B Alge-120 per 1,000 gal of water in the system depending on the severity of contamination.

Intermittent or Slug Method

Initial Dose: When the system is noticeably fouled, add 0.0048-0.0095 gal O'B Alge-120 per 1,000 gal of water in the system. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 0.0024-0.0095 gal O'B Alge-120 per 1,000 gal of water in the system every 4 days, 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, add 0.0048-0.0095 gal O'B Alge-120 per 1,000 gal of water to the system.

Subsequent Dose: Maintain this level by pumping a continuous feed of 0.00095-0.0048 gal O'B Alge-120 per 1,000 gal of water in the system per day.

Badly fouled systems must be cleaned before treatment is begun.

FOR CONTROL OF FUNGI AND ALGAE

Add 0.029-0.095 gal O'B Alge-120 per 1,000 gal of water in the system depending on the severity of contamination.

Intermittent or Slug Method

Initial Dose: When the system is noticeably fouled, add 0.048-0.095 gal O'B Alge-120 per 1,000 gal of water in the system. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 0.029-0.095 gal O'B Alge-120 per 1,000 gal of water in the system daily, 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, add 0.048-0.095 gal O'B Alge-120 per 1,000 gal of water to the system.

Subsequent Dose: Maintain this treatment level by pumping a continuous feed of 0.029-0.095 gal O'B Alge-120 per 1,000 gal of water in the system per day.

Badly fouled systems must be cleaned before treatment is begun.

ONCE-THROUGH INDUSTRIAL COOLING WATER SYSTEMS

For controlling bacteria, fungi, and algae in once-through and closed-cycle fresh and sea water cooling systems, cooling ponds, canals, and lagoons, add O'B Alge-120 to the system inlet water or before any other contaminated area in the system. Addition should be made with a metering pump, it may be continuous or intermittent depending on the severity of the contamination when treatment is begun, and the retention time in the system.

FOR CONTROL OF BACTERIA

Add 1-12 ppm O'B Alge-120 based on the flow rate through the system, depending on the severity of contamination.

Intermittent Method

Initial Dose: When the system is noticeably fouled, add 6-12 ppm O'B Alge-120. Maximum treatment intervals should be 15 minutes. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 3-12 ppm O'B Alge-120 intermittently, 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, add 6-12 ppm O¹B Alge-120 continuously to the system.

Subsequent Dose: When microbial control is evident, pump a continuous feed of 1-6 ppm O¹B Alge-120 to the system.

Badly fouled systems must be cleaned before treatment is begun.

FOR CONTROL OF FUNGI AND ALGAE

Add 36-118 ppm O¹B Alge-120 based on the flow rate through the system, depending on the severity of contamination.

Intermittent Method

Initial Dose: When the system is noticeably fouled, add 60-118 ppm O¹B Alge-120 to the system. The minimum treatment interval should be 15 minutes. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 36-118 ppm O¹B Alge-120 to the system daily or as needed to maintain control. The minimum treatment interval should be 15 minutes.

Badly fouled systems must be cleaned before treatment is begun.

Continuous Feed Method

Initial Dose: When the system is noticeably fouled, add 60-118 ppm O¹B Alge-120 to the system.

Subsequent Dose: When microbial control is evident, pump a continuous feed of 36-118 ppm O¹B Alge-120 to the system.

Badly fouled systems must be cleaned before treatment is begun.

AIR-WASHER SYSTEMS

Add 0.0015 - 0.095 gal O¹B Alge-120 / 1,000 gal of water in the system, depending upon the severity of contamination to control slime-forming bacteria and fungi in industrial air-washer systems.

Intermittent or Slug Method

Initial Dose: When the system is noticeably fouled, add 0.003-0.095 gal O¹B Alge-120 / 1,000 gal of water in the system. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 0.0015 - 0.047 gal O¹B Alge-120 / 1,000 gal of water in the system every 2 days 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, add 0.003 - 0.095 gal O¹B Alge-120 / 1,000 gal of water in the system.

Subsequent Dose: Maintain this level by pumping a continuous feed of 0.0015 - 0.047 gal O¹B Alge-120 / 1,000 gal of water in the system per day.

Badly fouled systems must be cleaned before treatment is begun.

Note: For use only in industrial air-washer systems that maintain effective mist-eliminating components.

Notice: Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, express or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.



NOTICE

Do Not Ship or Store with Food, Feeds, Drugs, or Clothing

net kg/ lb



A Zifran Enterprises Company

2686 Lisbon Road
Cleveland, Ohio 44104
25 Delta Avenue
Livingston, N.J. 07039

120

BEST AVAILABLE COPY

may be made at the
after the injection

rust, and fungi in
used in flooding
B Alge 120
per 2400 barrels of
120 should be
lately after prepa-
olution to prevent

ING WATER

asin (or any other
should be made
e continuous or
verity of the con-
n, and the reten-

oduct is attained
ement. If "shock"
should be discon-

ge 120 /1,000
ng on the severity

oticeably fouled,
e 120 /1,000
at until control

ontrol is evident,
e 120 /1,000
s, or as needed to

ned before treat-

oticeably fouled,
e 120 /1,000

vel by pumping a
048 gal O'B
r in the system

ned before treat-

FOR CONTROL OF FUNGI AND ALGAE
Add 0.029-0.095 gal O'B Alge 120 /1,000 gal
of water in the system depending on the severity
of contamination.

Intermittent or Slug Method
Initial Dose: When the system is noticeably fouled,
add 0.048-0.095 gal O'B Alge 120 /1,000 gal
of water in the system. Repeat until control is
achieved.

Subsequent Dose: When microbial control is evident,
add 0.029-0.095 gal O'B Alge 120 /1,000 gal
of water in the system daily, or as needed to maintain
control.

**Badly fouled systems must be cleaned before treat-
ment is begun.**

Continuous Feed Method
Initial Dose: When the system is noticeably fouled,
add 0.048-0.095 gal O'B Alge 120 /1,000 gal
of water to the system.

Subsequent Dose: Maintain this treatment level by
pumping a continuous feed of 0.029-0.095 gal
O'B Alge 120 /1,000 gal of water in the system
per day.

**Badly fouled systems must be cleaned before treat-
ment is begun.**

ONCE-THROUGH INDUSTRIAL COOLING WATER SYSTEMS

For controlling bacteria, fungi, and algae in once-
through and closed-cycle fresh and sea water cooling
systems, cooling ponds, canals, and lagoons, add
O'B Alge 120 to the system inlet water or
before any other contaminated area in the system.
Addition should be made with a metering pump; it
may be continuous or intermittent depending on the
severity of the contamination when treatment is
begun, and the retention time in the system.

FOR CONTROL OF BACTERIA
Add 1-12 ppm O'B Alge 120 based on the
flow rate through the system, depending on the sever-
ity of contamination.

Intermittent Method
Initial Dose: When the system is noticeably fouled,
add 6-12 ppm O'B Alge 120 Minimum treat-
ment intervals should be 15 minutes. Repeat until
control is achieved.

Subsequent Dose: When microbial control is evident,
add 3-12 ppm O'B Alge 120 intermittently as
needed to maintain control.

**Badly fouled systems must be cleaned before treat-
ment is begun.**

Continuous Feed Method
Initial Dose: When the system is noticeably fouled,
add 6-12 ppm O'B Alge-120 continuously to
the system.

Subsequent Dose: When microbial control is evident,
pump a continuous feed of 1-6 ppm O'B Alge-
120 to the system.

**Badly fouled systems must be cleaned before treat-
ment is begun.**

FOR CONTROL OF FUNGI AND ALGAE

Add 36-118 ppm O'B Alge-120 based on the
flow rate through the system, depending on the sever-
ity of contamination.

Intermittent Method
Initial Dose: When the system is noticeably fouled,
add 60-118 ppm O' Alge-120 to the system.
The minimum treatment interval should be 15 min-
utes. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident,
add 36-118 ppm O' Alge-120 to the system
daily or as needed to maintain control. The minimum
treatment interval should be 15 minutes.

**Badly fouled systems must be cleaned before treat-
ment is begun.**

Continuous Feed Method
Initial Dose: When the system is noticeably fouled,
add 60-118 ppm O' Alge-120 to the system.

Subsequent Dose: When microbial control is evident,
pump a contin feed of 36-118 ppm O'B
Alge-120 to the system.

**Badly fouled systems must be cleaned before treat-
ment is begun.**

AIR-WASHER SYSTEMS

Add 0.0015-0.09 O'B Alge-120 /1,000 gal
of water in the sy depending upon the severity of
contamination to control slime-forming bacteria and
fungi in industr washer systems.

Intermittent Method
Initial Dose: When the system is noticeably fouled,
add 0.003-0.095 O'B Alge-120 /1,000 gal
of water in them. Repeat until control is
achieved.

Subsequent Dose: When microbial control is evident,
add 0.0015-0.0 O'B Alge-120 /1,000 gal
of water in the every 2 days or as needed to
maintain contr

**Badly fouled systems must be cleaned before treat-
ment is begun.**

Continuous Feed Method
Initial Dose: When the system is noticeably fouled,
add 0.003-0.095 gal O'B Alge-120 /1,000 gal
of water in the system.

Subsequent Dose: Maintain this level by pumping a
continuous feed of 0.0015-0.047 gal O'B Alge-
120 /1,000 gal of water in the system per day.

**Badly fouled systems must be cleaned before treat-
ment is begun.**

Note: For use only in industrial air-washer systems
that maintain effective mist eliminating components.

Notice: Seller warrants that the product conforms to
its chemical description and is reasonably fit for the
purposes stated on the label when used in accord-
ance with directions under normal conditions of use,
but neither this warranty nor any other warranty of
MERCHANTABILITY OR FITNESS FOR A PARTICU-
LAR PURPOSE, express or implied, extends to the
use of this product contrary to label instructions, or
under abnormal conditions, or under conditions not
reasonably foreseeable to seller, and buyer assumes
the risk of any such use.



NOTICE

Do Not Ship or Store with Food,
Feeds, Drugs, or Clothing

net kg/ lb



2888 Libbon Road
Cleveland, Ohio 44104
88 Doran Avenue
Livingston, N.J. 07039

A Zinkas Enterprises Company

OT MM

NOT REVIEWED
In Accordance with PR Notice 32-22
Based on Draft Labeling Dated 1/15/86

BEST AVAILABLE COPY

11541-12 pm 32
10/82

O'B-ALGE-1

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

FOR INDUSTRIAL USE ONLY

Active Ingredients: 2,2-Dibromo-3-nitropropionamide 20%
Inert Ingredients: 80%
E.P.A. Registration No. 11541-12
E.P.A. Est. 11541-NJ-02

KEEP OUT OF REACH OF CHILDREN

DANGER

PRECAUTIONARY STATEMENTS
Hazards to Humans and Domestic Animals
CAUSES SEVERE BURNS OF EYES • EYE CONTACT MAY CAUSE LOSS OF VISION • MAY BURN THE SKIN • MAY BE HARMFUL OR FATAL IF SWALLOWED

Do Not Get in Eyes, on Skin, or on Clothing • Chemical Worker's Goggles Must Be Worn When Handling • Wash Thoroughly After Handling
FIRST AID: In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician. In case of skin contact, immediately wash skin with soap and plenty of water. Wash contaminated clothing before reuse. Get medical attention if irritation persists. If Swallowed, immediately induce vomiting by giving two glasses of water and sticking finger down throat. Repeat until vomit is clear. Call a physician. Never give anything by mouth to an unconscious person.

ENVIRONMENTAL HAZARDS

This product is toxic to fish. Apply this product only as specified on this label. Do not contaminate water by cleaning of equipment, or disposal of wastes. NOTE: Do not discharge into lakes, streams, ponds, or public waters unless in accordance with a NPDES permit. For guidance, contact your regional office of the EPA

In case of an emergency endangering life or property involving this product, call collect 216-721-6800

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

Storage: To maintain product quality, store at temperatures below 60°C. Keep container tightly closed when not in use.

Pesticide Disposal: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal: Do not reuse empty container. Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures 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 the labeling.

NOTE: ADD O'B Alge-120 SEPARATELY TO THE SYSTEM. DO NOT MIX IT WITH OTHER ADDITIVES. IN ORDER TO AVOID DECOMPOSITION OF O'B Alge-120 DUE TO THE HIGH pH OF MANY ADDITIVE FORMULATIONS.

PAPER MILLS

For the control of bacterial, fungal, and yeast growths in pulp, paper, and paperboard mills, add O'B Alge 120 at the rate of 0.15-0.50 lb/ton of pulp or paper (dry basis). Addition may be continuous or intermittent, depending upon the type of system and the severity of contamination. It should be made with a metering pump at a location that will insure uniform distribution of O'B Alge-120 in the mass of fiber and water, such as the beaters, jordan inlet or discharge, broke chests, furnish chests, save-alls, and white-water tanks.

Heavily fouled systems should be boiled out, then treated with 0.15-0.35 lb O'B Alge-120 /ton of paper (dry basis), as necessary for control.

Moderately fouled systems should be treated continuously with 0.35-0.50 lb O'B Alge-120 /ton of paper (dry basis) until the slime accumulation is controlled. Addition rates can then be reduced to 0.15-0.35 lb O'B Alge-120 /ton of paper on a continuous or intermittent basis, as needed for

control. Dislodged slime may cause breaks in the paper and a clean-up of the paper machine may be advisable.

Slightly fouled systems should be treated continuously with 0.15-0.35 lb O'B Alge 120 /ton of paper (dry basis) until the slime is controlled, then added on an intermittent basis to maintain control.

METALWORKING FLUIDS CONTAINING WATER

This product is effective in metalworking fluid concentrates which have been diluted in water at ratios of 1:100-1:4.

For controlling (or inhibiting) the growth of bacteria, fungi, and yeasts that may deteriorate metalworking fluids containing water, add O'B Alge 120 to the fluid in the collection tank. Additions should be made with a metering pump.

Initial or Slug Dose: When the system is just noticeably fouled, add 0.25 gal O'B Alge 120 /1,000 gal of metalworking fluid to the system. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 0.1-0.2 gal O'B Alge 120 /1,000 gal of metalworking fluid per day, or as needed to maintain control. Additions can be made continuously or intermittently. Slug the system as required.

ENHANCED OIL RECOVERY SYSTEMS

For controlling slime-forming bacteria, sulfide-producing bacteria, yeasts, and fungi in oil field water, polymer or micellar floods, water-disposal systems, or other oil field water systems, add 1-80 ppm O'B Alge 120 (0.1-6.4 gal per 2400 barrels of water) depending on the severity of contamination. Additions should be made with a metering pump either continuously or intermittently.

Continuous Feed Method

When the system is noticeably fouled, add 10-80 ppm O'B Alge 120 (0.8-6.4 gal O'B Alge 120 per 2400 barrels of water) continuously until the desired degree of control is achieved. Subsequently, treat with 1-15 ppm O'B Alge 120 (0.1-1.2 gal O'B Alge 120 per 2400 barrels of water) continuously or as needed to maintain control.

Intermittent or Slug Method

When the system is noticeably fouled, or to maintain control of the system, add 10-80 ppm O'B Alge 120 (0.8-6.4 gal O'B Alge 120 per 2400 barrels of water) intermittently for 4-8 hours per day, and from 1-4 times per week, or as needed depending on the severity of contamination.

Addition of O'B Alge 120 may free water knockouts, before or after pumps and injection well headers.

NOTE: For control of bacteria, yeast aqueous solutions of biopolymer use operations, add 15-80 ppm O'B Alge 120 (1.2-6.4 gal O'B Alge 120 per water). Additions of O'B Alge 120 made with a metering pump immediately after start-up of the aqueous biopolymer solution will prevent loss of viscosity.

INDUSTRIAL RECIRCULATING COOLING TOWERS

Add O'B Alge 120 to the basin point of uniform mixing. Addition should be made with a metering pump; it may be intermittent, depending on the severity of contamination when treatment is begun. Repeat until control is achieved.

Optimum performance with this product by continuous or intermittent treatment is used, the blowdown should be continued for 24-48 hours.

FOR CONTROL OF BACTERIA

Add 0.00095-0.0095 gal O'B Alge 120 gal of water in the system, depending on the severity of contamination.

Intermittent or Slug Method

Initial Dose: When the system is noticeably fouled, add 0.0048-0.0095 gal O'B Alge 120 gal of water in the system. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 0.0024-0.0095 gal O'B Alge 120 gal of water in the system every 4 days, 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, add 0.0048-0.0095 gal O'B Alge 120 gal of water to the system.

Subsequent Dose: Maintain this level of continuous feed of 0.00095-0.0095 gal O'B Alge 120 /1,000 gal of water per day.

Badly fouled systems must be cleaned before treatment is begun.