

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.

Sincerely yours,

Robert DiVaglini for

Ruth Douglas
Product Manager (32)
Antimicrobial Program Branch
Registration Division (7505C)



ACCEPTED with COMMENTS in EPA Letter Dated:

JUN 5 1995

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

LESTER

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

FOR INDUSTRIAL USE ONLY

Active Ingredients:

2,2-Dibromo-3-nitropropionamide 20%

Inert Ingredients: 80%

E.P.A. Registration No.

E.P.A. Est.

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

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 emergency endangering life or property involving this product call 1-800-424-9300

STORAGE AND DISPOSAL

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

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

Pesticide Disposal: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or residue 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 LESTER BAC-20 SEPARATELY TO THE SYSTEM. DO NOT MIX IT WITH OTHER ADDITIVES, IN ORDER TO AVOID DECOMPOSITION OF LESTER BAC-20 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 LESTER BAC-20 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 LESTER BAC-20 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 LESTER BAC-20/ton of paper (dry basis), as necessary for control.

Moderately fouled systems should be treated continuously with 0.35-0.50 lb LESTER BAC-20/ton of paper (dry basis) until the slime accumulation is controlled. Addition rates can then be reduced to 0.15-0.35 lb LESTER BAC-20/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 LESTER BAC-20/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 LESTER BAC-20 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 LESTER BAC-20/1,000 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 LESTER BAC-20/1,000 gal of metalworking fluid per day, or as needed to maintain control. Additions can be made continuously or intermittently. Slug the system as required.

INDUSTRIAL RECIRCULATING WATER COOLING TOWERS

Add LESTER BAC-20 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 obtained by continuous or intermittent treatment. If "shock" treatment is used, the blowdown should be discontinued for 24-28 hours.

FOR CONTINUOUS LESTER BAC-20 SYSTEM: Initial Dose: 0.0048-0.005 lb/ton of water in the system. Rep. Subsequent Dose: 0.0024-0.005 lb/ton of water in the system. Continuous F. Initial Dose: 0.0048-0.005 lb/ton of water in the system. Subsequent Dose: 0.0024-0.005 lb/ton of water in the system.

FOR CONTINUOUS LESTER BAC-20 SYSTEM: Initial Dose: 0.0048-0.005 lb/ton of water in the system. Rep. Subsequent Dose: 0.0024-0.005 lb/ton of water in the system. Daily systems must be cleaned out. Initial Dose: 0.0048-0.005 lb/ton of water in the system. Subsequent Dose: 0.0024-0.005 lb/ton of water in the system.

RECEIVED
DATE: 5/19/95

LESTER BAC-20

Federal Insecticide,
Rodenticide Act as
per the pesticide
label EPA Reg. No.

DISPOSAL
Food, or feed by storage or
quality, store at temperatures
container tightly closed when not

Acutely hazardous
pesticide, spray mixture, or
label law. If these wastes cannot
according to label instructions, contact
Environmental Control Agency, or the
operator at the nearest EPA Re-

Do not reuse empty container. Triple
offer for recycling or recondition-
ing in a sanitary landfill, or by
method by state and local authorities.

FOR USE
Use this product in a manner
separately to the
with other additives. In
composition of LESTER BAC-
of many additive formu-

Fungal, and yeast growths in pulp,
add LESTER BAC-20 at the
pulp or paper (dry basis). Addition
method, depending upon the type
of contamination. It should be
pump at a location that will insure
LESTER BAC-20 in the mass of fiber
waters, Jordan inlet or discharge,
bleeds, save-alls, and white-water

Should be boiled out, then treated
BAC-20/ton of paper (dry basis).

Moderately fouled systems should be treated continuously
with 0.35-0.50 lb LESTER BAC-20/ton of paper (dry basis)
until the slime accumulation is controlled. Addition rates can
then be reduced to 0.15-0.35 lb LESTER BAC-20/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 LESTER BAC-20/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 LESTER BAC-20 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 LESTER BAC-20/1,000 gal of metal-
working fluid to the system. Repeat until control is achieved.
Subsequent Dose: When microbial control is evident, add
0.1-0.2 gal LESTER BAC-20/1,000 gal of metalworking fluid
per day, or as needed to maintain control. Additions can be
made continuously or intermittently. Slug the system as
required.

INDUSTRIAL RECIRCULATING WATER COOLING TOWERS

Add LESTER BAC-20 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 treat-
ment. If "shock" treatment is used, the blowdown should be
discontinued for 24-28 hours.

FOR CONTROL OF BACTERIA: Add 0.00095-0.0095 gal
LESTER BAC-20/1,000 gal of water in the system, depend-
ing on the severity of contamination.
Intermittent or Slug Method

Initial Dose: When the system is noticeably fouled, add
0.0048-0.0095 gal LESTER BAC-20/1,000 gal of water in the
system. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add
0.0024-0.0095 gal LESTER BAC-20/1,000 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 LESTER BAC-20/1,000 gal of water to the
system.

Subsequent Dose: Maintain this level by pumping a contin-
uous feed of 0.00095-0.0048 gal LESTER BAC-20/1,000 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 LESTER BAC-20/1,000 gal of water in the system de-
pending on the severity of contamination.
Intermittent or Slug Method

Initial Dose: When the system is noticeably fouled, add
0.048-0.095 gal LESTER BAC-20/1,000 gal of water in the
system. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add
0.029-0.095 gal LESTER BAC-20/1,000 gal of water in the
system daily, or as needed to maintain control. Badly fouled
systems must be cleaned before treatment is begun. 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 LESTER BAC-20/1,000 gal of water to the
system.

Subsequent Dose: Maintain this treatment level by pump-
ing a continuous feed of 0.029-0.095 gal LESTER BAC-20/
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 LESTER BAC-20 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 sever-
ity of the contamination when treatment is begun, and the
retention time in the system.

FOR CONTROL OF BACTERIA: Add 1-12 ppm LESTER
BAC-20 based on the flow rate through the system depend-
ing on the severity of contamination.

Intermittent Method
Initial Dose: When the system is noticeably fouled, add 6-12
ppm LESTER BAC-20. Minimum treatment intervals should
be 15 minutes. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident add 3-
12 ppm LESTER BAC-20 intermittently as needed to main-
tain 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 LESTER BAC-20 continuously to the system.
Subsequent Dose: When microbial control is evident, pump
a continuous feed of 1-6 ppm LESTER BAC-20 to the
system. Badly fouled systems must be cleaned before
treatment is begun.

FOR CONTROL OF FUNGI AND ALGAE: Add 36-118 ppm
LESTER BAC-20 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 LESTER BAC-20 to the system. The minimum
treatment interval should be 15 minutes. Repeat until control
is achieved.

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R BAC-20S

Add 0.00095-0.0095 gal in the system, depending on the severity of contamination.

When the system is noticeably fouled, add 0.001-0.01 gal of water in the system. If microbial control is evident, add 0.0005-0.005 gal of water in the system to maintain control. Badly fouled systems must be cleaned before treatment is begun.

When the system is noticeably fouled, add 0.001-0.01 gal of water to the system.

Maintain this level by pumping a continuous feed of LESTER BAC-20 to the system. Badly fouled systems must be cleaned before treatment is begun.

FOR CONTROL OF ALGAE: Add 0.029-0.095 gal of water in the system depending on the severity of contamination.

When the system is noticeably fouled, add 0.001-0.01 gal of water in the system. If microbial control is evident, add 0.0005-0.005 gal of water in the system to maintain control. Badly fouled systems must be cleaned before treatment is begun.

When the system is noticeably fouled, add 0.001-0.01 gal of water to the system.

Maintain this level by pumping a continuous feed of LESTER BAC-20 to the system. 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 LESTER BAC-20 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 LESTER BAC-20 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 LESTER BAC-20. Minimum treatment intervals should be 15 minutes. Repeat until control is achieved.
Subsequent Dose: When microbial control is evident add 3-12 ppm LESTER BAC-20 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 LESTER BAC-20 continuously to the system.
Subsequent Dose: When microbial control is evident, pump a continuous feed of 1-6 ppm LESTER BAC-20 to the system. Badly fouled systems must be cleaned before treatment is begun.

FOR CONTROL OF FUNGI AND ALGAE: Add 36-118 ppm LESTER BAC-20 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 LESTER BAC-20 to the system. The maximum treatment interval should be 15 minutes. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 36-118 ppm LESTER BAC-20 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 LESTER BAC-20 to the system.
Subsequent Dose: When microbial control is evident, pump a continuous feed of 36-118 ppm LESTER BAC-20 to the system. Badly fouled systems must be cleaned before treatment is begun.

AIR WASHER SYSTEMS

Add 0.0015-0.095 gal LESTER BAC-20/1,000 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 LESTER BAC-20/1,000 gal of water in the system. Repeat until control is achieved.
Subsequent Dose: When microbial control is evident, add 0.0015-0.047 gal LESTER BAC-20/1,000 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 LESTER BAC-20/1,000 gal of water in the system.
Subsequent Dose: Maintain this level by pumping a continuous feed of 0.0015-0.047 gal LESTER BAC-20/1,000 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 uses 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
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LESTER LABORATORIES, INC.
ATLANTA, GA 30344 292

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