

PH 3 33753-17

US ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (75-767) WASHINGTON, DC 20460  <b>NOTICE OF PESTICIDE:</b> <input checked="" type="checkbox"/> REGISTRATION <input type="checkbox"/> REREGISTRATION <i>(Under the Federal Insecticide, Fungicide,          and Rodenticide Act, as amended)</i>	EPA REGISTRATION NO. 33753-17	DATE OF ISSUANCE <b>MAR 19 1992</b>
	TERM OF ISSUANCE	
	NAME OF PESTICIDE PRODUCT Myacide S-15	

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

The Boots Company PCC  
 Boots Microcheck Groups  
 Thane Road  
 Nottingham NG2 3AA England

NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted 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/cite all data or other material required for registration/reregistration of your product under FIFRA section 3(c)(5) or FIFRA section 4 when the Agency requires all registrants of similar products to submit such data.
2. Make the labeling changes listed below before you release the product for shipment:
  - a. Add the phrase "EPA Registration No. 33753-17."
  - b. Delete 33753-RT. This is not your registration number.
  - c. Add the following to the precautionary labeling section:

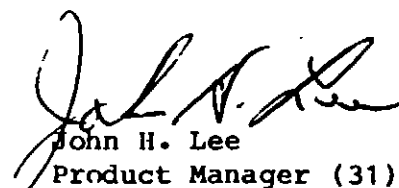
Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL \_\_\_\_\_ DATE \_\_\_\_\_

3. 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.

  
John H. Lee  
Product Manager (31)  
Antimicrobial Program Branch  
Registration Division (H7505C)

Enclosure

1131 2-10-1992

# MYACIDE<sup>(R)</sup> S-15

## MYACIDE S-15

MYACIDE S-15 is a liquid bactericide for use in controlling bacteria found in Industrial Process water, oil and gas processing applications including drilling muds, fracturing fluids, produced waters, injection waters, water bottoms in storage tanks and in metal working fluids.

ACTIVE INGREDIENT:

2-Bromo-2-nitropropane-1,3-diol	10.0%
INERT INGREDIENTS	90.0%
TOTAL	100.0%

KEEP OUT OF REACH OF CHILDREN

**DANGER**

### STATEMENT OF PRACTICAL TREATMENT

- |              |  |
|--------------|--|
| If swallowed | - Drink egg whites, gelatin solution or if these are not available, drink large quantities of water. Call a Physician. |
| If inhaled   | - Remove person to fresh air.  |
| If on skin   | - Immediately flush skin with plenty of water for 15 minutes.  |
| If in eyes   | - Immediately flush eyes with plenty of water for 15 minutes. Call a Physician.  |

### Note to Physician

Probable mucosal damage may contraindicate the use of gastric lavage.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

MYACIDE S-15 IS A RESEARCH DISCOVERY OF THE BOOTS COMPANY PLC NOTTINGHAM ENGLAND

MYACIDE IS A REGISTERED TRADEMARK OF THE BOOTS COMPANY PLC

EPA REG NUMBER 33753-RT  
EPA EST NUMBER 33753-EN-1

NET CONTENTS  
5 gallons

**BEST AVAILABLE COPY**

ACCEPTED  
WHOLESALE  
in EPA Label List

**MAR 19 1992**

For the State of the State  
EPA  
33753-17

41917

PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND  
DOMESTIC ANIMALS

DANGER

Corrosive. Causes eye damage and skin irritation. Do not get in eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves when handling. Harmful if swallowed. Avoid contamination of food. This product is a dermal sensitiser.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or public waters unless this product is specifically identified and addressed in an NPDES permit. 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.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Keep away from heat.

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:

Completely empty container and triple rinse. Then offer container for recycling or reconditioning or puncture. Dispose of container in a sanitary landfill, or by incineration, if allowed by State and local authorities. If burned, stay out of smoke.

ACCEPTED  
with COMMENTS  
In EPA Letter Panel

MAR 19 1992

Under the authority of the  
Federal Insecticide, Fungicide,  
and Rodenticide Act (FIFRA),  
the following pesticide label has been  
found to be in violation of the Act.

33753-17

BEST AVAILABLE COPY

DIRECTIONS FOR USE  
IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT  
IN A MANNER INCONSISTENT WITH ITS LABELLING  
INDUSTRIAL RECIRCULATING WATER  
COOLING TOWERS AND EVAPORATIVE  
CONDENSERS

For the control of slime-forming bacteria and algae in industrial recirculation cooling towers and evaporative condensers.

METHOD AND LOCATION

MYACIDE S-15 may be slug dosed directly into the sump or basin or it may be added by a suitable chemical pump. Where metering pumps are used, these must be set to deliver the required dose as fast as possible (e.g. within 1 hour). The dosing point should be located close to the outlet from the basin to ensure rapid dispersal around the system.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

MAR 19 1992

Under the Clean Air Act  
and the Clean Water Act  
as amended by the President  
Executive Order 11738 No.

33753-17

FREQUENCY

MYACIDE S-15 may be shock dosed once or twice weekly as normal routine. Where contamination is heavy, more frequent dosing may be required. In heavily fouled systems, the tower should be drained and cleaned before treating with MYACIDE S-15.

QUANTITY - INITIAL AND MAINTENANCE

MYACIDE S-15 should be shock dosed at between 250 ml and 1000ml per cubic meter (2 pt. & 8 pts per 1000 gallons) depending on the condition of the tower, the quality of raw water input and the amount of bleed off.

OIL FLOODING/INJECTION WATERS

To inhibit the growth of slime forming or corrosion inducing sulfate reducing bacteria in oil well injection waters.

METHOD AND LOCATION

MYACIDE S-15 should be injected as a slug dose at any convenient point.

FREQUENCY

Depending on severity and rapidity of contamination, MYACIDE S-15 should be used from once a week to once a month.

QUANTITY - INITIAL AND MAINTENANCE

250-1000 mls/cubic meter (2 pts-8 pts/1000 gallons)

**BEST AVAILABLE COPY**

#### PRODUCED WATER

To inhibit the growth of slime-forming or corrosion-inducing sulfate reducing bacteria in formation water produced by wells together with oil or gas.

#### METHOD AND LOCATION

MYACIDE S-15 should be injected into the water-containing oil or gas stream at any convenient point. It should be injected as slug doses, not as a continuous feed.

#### FREQUENCY

Depending on severity and rapidity of contamination MYACIDE S-15 should be slug dosed from once a week to once a month.

#### QUANTITY - INITIAL AND MAINTAINANCE

250-1000 mls/cubic meter (0.083-0.33 pts. per barrel).

ACCEPTED  
with COMMENTS  
In EPA Letter Dated:

**MAR 19 1992**

U.S. Environmental Protection Agency  
Office of Water  
Washington, D.C. 20460  
Registered under Public Law 94-409

**33753-17**

#### FRACTURING FLUIDS

Reduces bacterial contamination and degradation of Fracturing Gels and Fluids used as well stimulants in the oil and gas industry.

#### METHOD AND LOCATION

Add directly to the water phase at any stage of the fracturing operation - for example at the pre-mixing stage or by direct injection at the well head in combined mix/injection procedures.

#### FREQUENCY

MYACIDE S-15 should be used for each fracturing operation to ensure best results.

#### QUANTITY - INITIAL AND MAINTAINANCE

MYACIDE S-15 should be added at a rate of 500-1000 ml/cubic meter (4 pts-8 pts/1000 gallons) depending on the quality of the makeup water.

**BEST AVAILABLE COPY**

## INDUSTRIAL PROCESS WATER

For the effective control of bacterial and algal growth in Industrial Process Water including closed circuit machine cooling (injection molding, etc.) and stored (non-potable) water.

To reduce the biofouling of pipework, heat exchangers, condenser tubes and minimise microbially produced corrosion.

### METHOD AND LOCATION

Dosing should be carried out into the sump/tank of the process water system. Shock dosing is preferred.

MYACIDE S-15 can also be used as an intermittant, flush treatment during regular maintenance cleaning of water tanks (non-potable) or equipment.

### FREQUENCY

In open systems shock dosing should be carried out on a weekly to once monthly basis depending on the degree of contamination. In closed circuit systems with little possibility of re-infection or loss of MYACIDE S-15 because of makeup or dilution, less frequent dosing (once monthly/two monthly) should be sufficient.

### QUANTITY - INITIAL AND MAINTENANCE

Dosing should be carried out to give an initial concentration of 500 ppm MYACIDE S-15 (500 mls/cubic meter or 4 pts/1000 gallons). When the above treatment has been successful, dosing can be lowered to a minimum of 100 ppm MYACIDE S-15 (100 mls/cubic meter or 0.8 pts/1000 gallons). For intermittant treatment of industrial process waters during routine maintenance MYACIDE S-15 should be used at 1000 ppm (1000mls/cubic meter or 8 pts/1000 gallons) and a contact time of at least one hour.

ACCEPTED  
with COMMENTS  
in EPA Letter No. 2

**MAR 19 1992**

Under the terms of the  
Memorandum of Understanding  
between the EPA and the  
State of California, this  
document is being made  
available to the public.  
EPA Order No. 33753-17

**BEST AVAILABLE COPY**

**WATER BOTTOMS IN OIL OR  
TRANSPORTATION TANKS**

For effective control of bacterial contamination in water bottoms in crude and refined hydrocarbon storage systems Above and below ground storage tanks and large marine systems are all suitable for treatment.

**METHOD AND LOCATION**

MYACIDE S-15 may be injected directly into the water bottom or may be sprayed over the surface of the hydrocarbon phase and allowed to percolate through.

**FREQUENCY**

Direct addition to the water phase by injection or percolation should be carried out every 30-60 days, depending on the severity of the problem. Addition to the hydrocarbon phase will result in longer term protection by gradual diffusion from the hydrocarbon phase into the water phase (depending on storage conditions).

**QUANTITY - INITIAL AND MAINTENANCE**

MYACIDE S-15 should be dosed at a rate which will achieve concentrations of 500-1000 ppm in the aqueous phase. Larger quantities may be added when dosing the hydrocarbon phase to allow diffusion of active ingredient into the water bottom during the long term.

**ACCEPTED  
with COMMENTS  
In EPA Letter Dated:**

**MAR 19 1992**

Under the provisions of the  
Federal Insecticide, Fungicide,  
and Rodenticide Act, this  
product is registered under the  
FIFRA Act.

**33753-17**



## PIPELINE MAINTENANCE

To control aerobic and anaerobic bacteria, particularly sulfate reducing bacteria, growth in oil and gas related production piping and transportation systems.

### METHOD AND LOCATION

MYACIDE S-15 can be injected directly into the pipeline or may be added to the hydrocarbon phase. Addition of the MYACIDE S-15 will produce long term water concentrations by a diffusion process.

### FREQUENCY

Slug treatments are recommended and can vary from daily to to monthly to control growth.

### QUANTITY - INITIAL AND MAINTENANCE

MYACIDE S-15 should be dosed at a rate which will achieve concentrations of 250--2000 ppm in the aqueous phase. Higher concentrations may be used to allow diffusion into the aqueous phase. Dose will depend on the volume of crude or oil and the expected water fraction.

## DRILLING FLUIDS AND WORKOVER AND COMPLETION FLUIDS

For use in oil and gas well drilling muds, and brines, inhibiting growth of cellulolytic, slime forming or sulfate reducing bacteria.

### METHOD AND LOCATION

MYACIDE S-15 may be dosed directly into the mud or brine.

### FREQUENCY

A single slug dose once to three times each 24hrs. Dosing may be less frequent where the contamination is low.

### QUANTITY - INITIAL AND MAINTENANCE

Each slug dose should be 0.18 to 0.36 pts./barrel total mud volume.

ACCEPTED  
with COMMENTS  
In EPA 2010-1-10-10

MAR 19 1992

Under the provisions of the  
Federal Acquisition Regulation  
and the Department of the Interior  
Contract No. 2010-1-10-10

33753-17

## WELL SQUEEZE FLUIDS

For the effective control of aerobic and anaerobic bacteria in squeeze fluids and downhole well bore areas.

### METHOD AND LOCATION

MYACIDE S-15 may be added during pre-mixing of the well squeeze fluid or may be added by direct injection at the well head during the well squeeze procedure.

### FREQUENCY

MYACIDE S-15 should be used for each well squeeze operation to ensure best results.

### QUANTITY - INITIAL AND MAINTENANCE

MYACIDE S-15 should be added at a rate of 250-2000 mls/cubic meter (2-16 pts/1000 gallons) depending on the quality of the makeup water.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

MAR 19 1992

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

33753-12

### INJECTION FLUIDS

For the control of contamination and corrosion from bacterial sources in fluids/waste fluids that are disposed of through injection into an approved well following approved guidelines.

#### METHOD AND LOCATION

MYACIDE S-15 may be added to each volume of fluid prior to injection.

#### FREQUENCY

MYACIDE S-15 should be added at a rate of 500-1000 ppm (0.18-0.36 pts/barrel) based on the water percent of the injection fluid.

ACCEPTED  
with COMMENTS  
in EPA Letter dated

**MAR 19 1992**

Under the provisions of the  
Resource Conservation and  
Recovery Act, the following  
information is being provided  
to you for your information.

**33753-12**

### ENHANCED OIL RECOVERY (EOR) FLUIDS

For the effective control of bacterial growth and eliminating degradation of EOR gels and fluids used in the oil and gas industry.

#### METHOD AND LOCATION

MYACIDE S-15 may be added during mixing or by injection during the EOR procedure.

#### FREQUENCY

MYACIDE S-15 should be added throughout the EOR operation.

#### QUANTITY - INITIAL AND MAINTENANCE

MYACIDE S-15 should be added at the rate of 500 - 1000 ppm (0.18 to 0.36 pts. per barrel) depending on the quality of the make up water.

### METALWORKING FLUIDS

MYACIDE S-15 is recommended for use in soluble oils, semi-synthetic, and synthetic fluids. It should be added directly to the sump (with agitation).

A dose of 2500 ppm is recommended for initial treatment, higher levels up to 10,000 ppm, but no greater for fouled systems.

After addition of MYACIDE S-15 the system should be circulated for about one hour before shutdown.

#### IN DILUTED FLUIDS

A concentration of 2500 to 10,000 ppm of MYACIDE S-15 in the fluid is sufficient to control gross microbial growth. For example, add 5 gallons of MYACIDE S-15 to 1000 gallons of fluid to obtain a dose level of 5000 ppm in the fluid.

#### MAINTENANCE DOSAGE

Add 1000-2000 ppm of MYACIDE S-15 to maintain control of the system.

#### IN CONCENTRATES

MYACIDE S-15 may be incorporated in metalworking fluid concentrate by the manufacturer. However, the manufacturer should determine the storage stability of MYACIDE S-15 in the concentrate to ensure that incompatibility will not affect its efficacy.

The amount to be incorporated will depend on the dilution factor recommended for the concentration.

ACCEPTED  
with COMMENTS  
by EPA Lab. 1/10/92  
**MAR 19 1992**  
Under the authority of the  
Director, Office of Water  
EPA Region 5  
Chicago, Illinois  
33753-17

**ADHESIVES**

For the control of microbial contamination, add 1 - 5 pts. of Myacide S15 per 100 lb. total formulation weight. The addition is best accomplished by adding the Myacide S15 to any water to be incorporated into the formulation.

**ACCEPTED**  
with COMMENTS  
to EPA Letter Dated:

**MAR 19 1992**

Order the following from the  
EPA Office of Pesticide Programs  
750 Capitol Mall, Sacramento, CA 95833  
Tel: (916) 947-4000

**33753-17**

### PAPER MILL PROCESS WATER

For the control of slime forming bacteria in paper or paperboard process water systems.

#### METHOD AND LOCATION

MYACIDE S15 may be dosed at a convenient point early in the process system. Suitable dosing points are the machine chest, constant head box or backwater loop system.

#### FREQUENCY

MYACIDE S15 should be shock dosed once, twice or three times daily in quantities sufficient to meet the required dose based on the daily production of finished products.

#### QUANTITY - INITIAL AND MAINTENANCE

MYACIDE S15 should be dosed at between 100mls and 2500 mls (0.2 and 5 pts) per tonne of finished paper or paperboard depending on the complexity of the system, quality of raw paper and type and degree of contamination.

### PAPER MILLS - BULK PULP

For the preservation of bulk quantities of pulp in paper and paperboard manufacturing systems. To control foul odours and general biodeterioration of stock when it is stored in bulk for any significant period of time.

#### METHOD AND LOCATION

MYACIDE S15 may be dosed directly into the hydropulper, machine chest or stock chest.

#### FREQUENCY

In general a single slug dose will provide control for up to 3 days or longer depending upon the initial level of contamination in the stock. In situations where contamination is high, repeat dosing every 1 - 7 days may be required.

#### QUANTITY - INITIAL AND MAINTENANCE

MYACIDE S15 should be dosed at between 500mls and 2000mls per tonne of stock (4 - 16 pts/1000 gallons) depending on the type and degree of contamination.

ACCEPTED  
with COMMENTS  
In EPA Letter Dated:

**MAR 19 1992**

Water Pollution Control  
Engineering and Practice  
2000 North 1st Street  
Seattle, WA 98107  
Tel: 206/462-1000

### STARCH, PIGMENT AND EXTENDER SLURRIES

To inhibit the growth or spoilage bacteria during the manufacture, storage and distribution of water based suspension concentrates.

#### METHOD AND LOCATION

MYACIDE S15 may be dosed at or close to the end of the manufacturing process in a quantity of the process water. If the manufacturing process involves a heating stage, the MYACIDE S15 should be added after this stage when the product has cooled to below 40°C.

#### QUANTITY

MYACIDE S15 should be dosed at 1000 to 5000 ppm based on the final formulation volume (1000 to 5000mls/cubic metre or 8 to 40pts/1000 gallons).

### PAINTS, LATEX AND ANTIFOAM EMULSION SYSTEMS

To provide in-can preservation and prevent bacterial spoilage during shelf-life storage of acrylic, styrene-acrylic, polyvinyl acetate and other latex emulsion concentrates and latex emulsion based paints. Also for the preservation of silicone and other antifoam emulsion systems.

#### METHOD AND LOCATION

MYACIDE S15 may be added at any convenient point during the manufacturing process. Ideally it should be added as a final stage just prior to packing of the product into bulk or sales packs.

If a heating stage is involved in the manufacture, add MYACIDE S15 after this stage when the product has cooled to below 40°C.

#### QUANTITY

MYACIDE S15 should be dosed at 1000 to 5000 ppm based on the final formulation volume (500 to 2500mls/cubic metre or 8 to 40pts/1000 gallons).

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

MAR 19 1992

33753-12

### WATER BASED PRINTING INKS AND FOUNT SOLUTIONS

To inhibit the growth of spoilage bacteria during the storage and use of water based printing inks and fount solutions.

#### METHOD AND LOCATION

For In-Can preservation MYACIDE S15 should be added at any convenient point during the manufacturing process. Ideally it should be added as a final step after any heating stage and when the product has cooled to below 40°C.

For the control of bacterial spoilage during the use of fount solutions, MYACIDE S15 should be shock dosed at a suitable point in the fount reservoir where there is adequate flow or turbulence to ensure quick mixing. MYACIDE S15 may be shock dosed once or twice weekly as a normal routine. Where conditions indicate, more frequent shock dosing may be required.

#### QUANTITY

In-Can preservation - MYACIDE S15 should be dosed at 1000 to 5000 ppm based on the final formulation volume (1000 to 5000mls/cubic metre or 8 to 40pts/1000 gallons).

Fount Solutions - MYACIDE S15 should be shock dosed at between 200 and 1000 ppm (200 to 1000mls/cubic metre ; 1.6 to 8 pts / 1000 gallons) depending on the contamination levels in the fount reservoir.

ACCEPTED  
with COMMENTS  
In EPA Letter dated:

MAR 19 1992

Under the provisions of the  
Federal Insecticide, Fungicide,  
and Rodenticide Act  
Registration No. 33753-17



15-27

DRILLING FLUIDS

For the preservation of oil and gas well drilling muds by inhibiting growth of cellulolytic, slime forming or sulfate reducing bacteria.

METHOD AND LOCATION

MYACIDE S-15 may be dosed directly into the mud hopper.

FREQUENCY

A single slug dose once to three times each 24hrs.

QUANTITY - INITIAL AND MAINTENANCE

Each slug dose should be 0.18 to 0.36 pts./barrel total mud volume.

ACCEPTED  
with COMMENTS  
by EPA Liaison

MAR 19 1992

Under the provisions of the  
Resource Conservation and  
Recovery Act, this document  
is being disseminated to the  
public.

33753-17