

MAY 03 1995

The Boots Company PLC  
 Boots Microcheck Group  
 Thane Road  
 Nottingham NG2 3AA  
 England  
 United Kingdom

Attention: John Kennedy, Agent  
 Clive S Aveyard, Regulatory Affairs Manager

Subject: Myacide As Plus  
 EPA Registration No. 33753-5  
 Your Amendment Dated March 17, 1995 and cover letter  
 dated March 27, 1995.

The amendment (label update - absorbent clay correction) referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable provided that you:

1. Make the following labeling changes below before you release the product for shipment bearing the amended labeling.
  - a. The statement "Causes eye and skin damage" must be retained. Please refer to the last stamped label for this file.
  - b. Include the heading: Net Contentts.
  - c. The ingredient section should be placed directly below the product name on the front panel.
  - d. The Storage and Disposal section are actually use directions and are not precautionary labeling statements. It is preferred that the storage and disposal section be a separate block item moved to appear under the Directions for Use section.
  - e. The misuse statement: "It is a violation of Federal law..." must be placed to appear directly below the heading: Directions for Use.
  - f. The decimal points in the ingredient section must be aligned.

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2. Note that the second part of your amendment: Adding textile use will be dealt with in a separate letter and therefore at this time in order to process this amendment for the absorbent clay, the textile section has been deleted.

3. A release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

4. A stamped copy of the labeling is enclosed for your records.

If you have any questions concerning this letter, contact V. Goncarovs at 703-305-6663.

Sincerely yours,

Marion Johnson  
Product Manager (31)  
Antimicrobial Program Branch  
Registration Division (7505C)

Enclosures

CONCURRENCES

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ORNAME								
DATE								

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# MYACIDE AS PLUS

KEEP OUT OF REACH OF CHILDREN  
**DANGER**

PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND  
DOMESTIC ANIMALS  
**DANGER**

**STATEMENT OF PRACTICAL TREATMENT**

If swallowed - Drink egg whites, gelatin solution or, if these are not available drink large quantities of water. Do not administer liquids to an unconscious person. 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.

**ACCEPTED with COMMENTS**  
In EPA Letter Dated  
**MAY 03 1995**

Under the Fungicide, as an active ingredient, 33753-5

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

**ENVIRONMENTAL HAZARDS**  
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 or fatal if swallowed. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before re-use.

**ENVIRONMENTAL HAZARDS**  
This pesticide is toxic to fish. 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.

**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 liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Triple rinse (or equivalent) then offer drum for recycling or reconditioning, or puncture. Dispose of drum and bags in a sanitary landfill or by incineration, if allowed by state and local authorities. If burned, stay out of smoke.

MYACIDE AS PLUS is a concentrated free-flowing crystalline solid microbiocide for use in controlling bacteria and algae found in industrial applications

**ACTIVE INGREDIENT**  
2-bromo-2-nitropropane-1,3-diol 95.0%

**INERT INGREDIENTS** 5.0%

**TOTAL** 100.0%

MYACIDE AS PLUS IS A RESEARCH DISCOVERY OF THE BOOTS COMPANY PLC, NOTTINGHAM ENGLAND

MYACIDE IS A REGISTERED TRADEMARK OF THE BOOTS COMPANY PLC

EPA REG. NUMBER 13753-5  
EPA EST. NUMBER 13753-0011

BOOTS COMPANY PLC  
NOTTINGHAM ENGLAND

SEE A LABEL FOR FEDERAL LAW REGULATIONS  
PRODUCT OF THE BOOTS COMPANY PLC, NOTTINGHAM ENGLAND

# MYACIDE<sup>®</sup> AS PLUS

ACCEPTED  
with COMMENTS  
in EPA Letter Dated

## DIRECTIONS FOR USE

MAY 03 1995

Under the Federal Insecticide, Fungicide, and Fertilizer Act as amended, for the pesticide registered under EPA Reg. No. 33753-5

### ADHESIVES

For the control of microbial contamination, add 0.1 to 0.5 lb of MYACIDE AS PLUS per 100 lb total formulation weight. The addition is best accomplished by adding the MYACIDE AS PLUS to any water to be incorporated into the formulation.

### ABSORBENT CLAYS

Impregnate absorbent clays with MYACIDE AS PLUS to inhibit the growth of odor-causing bacteria. The suggested application rate is 25-200 ppm of Myacide AS Plus (0.04 to 0.32 oz av.) per 100 pounds of clay.

### 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.

For in-can preservation MYACIDE AS PLUS should be added at any convenient point during the manufacturing process, ideally after any heating stage and when the product has cooled to below 40°C.

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

In-can preservation - MYACIDE AS PLUS should be dosed at 100 to 500 ppm based on the final formulation volume (100 to 500 g/cubic meter or 0.84 to 4.2 lb/1000 gallons). Fount solution - MYACIDE AS PLUS should be shock dosed at between 25 to 100 ppm (25 to 100 g/cubic meter; 0.21 to 0.84 lb/1000 gallons) depending on the contamination levels in the fount reservoir.

### INDUSTRIAL AND/OR COMMERCIAL AIR WASHERS, AIR CONDITIONING AND HUMIDIFYING SYSTEMS

For the control of bacterial and algal growth and to remove built-up slime deposits. Shock dosing is preferred and should be carried out into the water sump on a routine basis once per week or month. Heavily fouled systems may require twice weekly treatment.

The initial dose should give a concentration of MYACIDE AS PLUS at 50 ppm (50 g/cubic meter or 0.42 lb/1000 gallons). Subsequent dosing can be reduced by half.

Intermittent treatment during regular maintenance and cleaning to give 100 ppm active ingredient is also recommended with a contact time of at least one hour.

For small packages a 40g sachet in 200 gallons (or a 4g sachet in 20 gallons) of water will achieve 50 ppm.

### INDUSTRIAL PROCESS WATER

For the control of bacterial and algal growth in 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.

Shock dosing into the sumprank of the process water system is preferred. MYACIDE AS PLUS can also be used as an intermittent flush treatment during regular maintenance cleaning of water tanks (non-potable) or equipment.

In open systems shock dosing should be carried out on a once weekly to once monthly basis depending on the degree of contamination. In closed circuit systems less frequent dosing (once monthly, twice monthly) should be sufficient.

Dosing should be carried out to give an initial concentration of 50 ppm MYACIDE AS PLUS (50 g/cubic meter or 0.42 lb/1000 gallons). When successful dosing can be lowered to a minimum of 10 ppm. For intermittent treatment of industrial process waters during routine maintenance MYACIDE AS PLUS should be used at 100 ppm and a contact time of at least one hour.

### 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.

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

In general a single slug dose will provide control for up to 14 days, longer depending upon the initial level of contamination in the stock. In situations where contamination is high repeat dosing every 7 days may be required.

MYACIDE AS PLUS should be dosed at between 50 and 200 ppm (50 to 200 g/cubic meter or 0.42 to 1.7 lb/1000 gallons) depending on the type and degree of contamination and degree of contamination.

### PAPER MILL PROCESS WATER

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

MYACIDE AS PLUS may be dosed at a convenient point early in the process system (machine chest, constant head box or backwater loop system).

MYACIDE AS PLUS should be shock dosed once, twice or three times daily at between 10 g and 250 g (10.02 and 0.5 lb) per tonne of finished paper or paperboard depending on the complexity of the system, quality of raw paper and type and degree of contamination.

### OIL AND GAS PIPELINE AND TANK MAINTENANCE

To control bacterial contamination in water bottoms in crude and refined hydrocarbon storage tanks, piping and transportation systems.

MYACIDE AS PLUS can be injected directly into the water bottom pipeline or may be added to the hydration in place.

Treatment intervals from one day to 12 pipelines may be required every one or two months for both storage and transportation systems. Addition to the hydrocarbon phase will result in longer term protection by gradual diffusion into the water phase. MYACIDE AS PLUS should be applied to achieve 25-200 ppm in the aqueous phase. Higher concentrations may be added when dosing the hydrocarbon phase.

MYACIDE AS PLUS should be dosed at a rate which will achieve concentrations of 25-200 ppm in the aqueous phase. Higher concentrations may be used to allow diffusion into the aqueous phase. Dose will depend on the volume of water used and the expected water flow rate.

### OIL AND GAS FLUIDS

For the control of bacterial contamination in petroleum, fuel oil, hydraulic oil, etc. MYACIDE AS PLUS should be added to the fluid at a convenient point in the system. MYACIDE AS PLUS should be added at a rate which will achieve concentrations of 25-200 ppm in the fluid.

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### METALWORKING FLUIDS

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

After addition of MYACIDE AS PLUS the system should be circulated for about one hour before shutdown.

In diluted fluids a concentration of 25 to 100 ppm of MYACIDE AS PLUS in the fluid is sufficient to control microbial growth. If 0.1 lb of MYACIDE AS PLUS in 1000 lb will give a dose level of 1000 ppm; for maintenance add 200-400 ppm of MYACIDE AS PLUS.

MYACIDE AS PLUS may be incorporated in metalworking fluid concentrate by the manufacturer, who should ensure that any incompatibility will not affect efficacy.

### INDUSTRIAL RECIRCULATING WATER COOLING TOWERS AND EVAPORATIVE CONDENSERS

For the control of bacterial and algal growth in recirculating water cooling towers and evaporative condensers.

MYACIDE AS PLUS may be dosed as the solid directly into the sump or basin or it may be added to the cooling water return at a suitable point. The MYACIDE AS PLUS should be added at a point where there is adequate flow or turbulence to ensure quick dissolution (eg. the pump outlet from the tower sump).

MYACIDE AS PLUS may be shock dosed once a week or weekly as a normal routine. Where contamination is heavy, more frequent dosing may be required.

MYACIDE AS PLUS should be shock dosed at between 25 and 100 ppm (25 to 100 g/cubic meter or 0.21 to 0.84 lb/1000 gallons) depending on the degree of contamination and degree of contamination.

### PAINTS, LACERS AND ANTIQUAM EMULSION SYSTEMS

To inhibit bacterial preservation and prevent bacterial spoilage of stock life storage. MYACIDE AS PLUS should be added to the aqueous phase of the emulsion. MYACIDE AS PLUS should be added to the aqueous phase of the emulsion.

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

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

MYACIDE AS PLUS should be used at 100 to 500 ppm based on the final formulation volume (100 to 500 g/cubic meter or 0.84 to 4.2 lb/1000 gallons).

### STARCH, PLUMBER AND EXTENDER EMULSIONS

For the control of bacterial contamination in starch, plumber and extender emulsions. MYACIDE AS PLUS should be added to the aqueous phase of the emulsion.

MYACIDE AS PLUS should be added at a rate which will achieve concentrations of 25-200 ppm in the aqueous phase.

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