M.E.2 33753-5 1.4c

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

OCT 10 1995

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

Attention: John W. Kennedy, Agent
Clive S. Aveyard, Regulatory Affairs Manager
G. Cierrech, Information Officer

Subject: Myacide AS Plus
EPA Registration No. 33753-5
Your Amendment Dated August 22, 1995

The amendment (adding chemical toilet deodorants), referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable provided that you:

1. Submit and/or cite all data required for registration/ reregistration of your product under FIFRA sec 3(c)(5) when the Agency requires all registrants of similar products to submit such data.

2. Make the following labeling changes below before you release the product for shipment bearing the amended labeling.

a. The signal word: "Danger" on the center panel must be at least 18 points type size.

b. Within the added claim for chemical toilet deodorant, add dilutions examples, such as ounces per pound, or ounces per gallon.

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

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

| CONCURRENCES | | | | | | | |
|---|---|---|---|---|---|---|---|
| SYMBOL | | | | | | | |
| SURNAME | | | | | | | |
| DATE | | | | | | | |

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# MYACIDE™ AS PLUS

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% |

## 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. 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.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

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 33755-5
EPA EST. NUMBER 33755-EN-1

NET CONTENTS SEE PACKAGE

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Corrosive. Causes eye and skin damage. Do not get in eyes, on skin or 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 liner in a sanitary landfill, or by incineration, if allowed by State and local authorities. If burned, stay out of smoke.

## 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.

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

MYACIDE AS PLUS should be shock dosed at between 25g and 100g per cubic meter (0.21-0.84 lb/1000 gallons) depending on the condition of the tower, the quality of the raw water input and the amount of bleed off.

### 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 sump/tank 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 (50g/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

### 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 hydrocarbon phase

Treatment can vary from once daily for pipeline maintenance to once 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 crude or oil and the expected water fraction

### 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 (0.02 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

### 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 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

MYACIDE AS PLUS should be dosed at between 50 g and 200 g tonne of stock (0.42 lb - 1.7 lb/1000 gallons) depending on the type and depending on the type and degree of contamination

### PAINTS X 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

MYACIDE AS PLUS may be added at any convenient point during the manufacturing process. Ideally it should be added as a final just 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 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).

### 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) and the system should be circulated for about one hour before shutdown.

In diluted fluids, a concentration of 250 to 1000 ppm of MYACIDE AS PLUS in the fluid is sufficient to control microbial growth (1.0 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.

### ADHESIVES

For the control of microbial contamination, add 0.1-0.5 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 (0.04-0.32 oz av.) per 100 pounds of clay

### WATER B/ 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.

### STARCH, PIGMENT AND EXTENDER SLURRIES

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

MYACIDE AS PLUS may be dosed at or close to the end of the manufacturing process. If a heating stage is involved, the MYACIDE AS PLUS should be added after this stage when the product has cooled to below 40°C

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

**DRAFT LABEL EXTENSION**

### CHEMICAL TOILET DEODORANTS

To inhibit the growth of odor-causing bacteria in chemical toilets. Deodorant concentrates should incorporate MYACIDE AS PLUS at levels of 1-28% depending on the desired concentration level. To effectively control odor in a portable toilet, a level of 100-500 ppm MYACIDE AS PLUS is recommended