UNIT STATES ENVIRONMENTAL PROTECTI (\GENCY

JUN 18 1990

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

Attention: W.G. Guthrie R&D Manager

Product Name: Myacide As Plus Registration Number 33753-5 Amendment Date Nov. 10, 1989

The amendment referred to above, submitted in connection with registration under FIFRA sec. 3(c)(7)(A), is acceptable, provided that you:

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

2. Nake the labiling changes listed below before you release the product for shipment hearing the amended labeling:

a. Delete the statements

Measures against circulatory shock, respiratory depression and convulsion may be needed.

- b. Include the appropriate "Conventional American Units" with the metric units (Net Contents Section).
- c. Add the following additional statements to the precautionary labeling section.

Wash thoroughly wit: soap and water after handling. Remove contaminated clothing and wash before reuse. 60884:I:V.G.:L-9:KENC0:5/30/90:6/30/90:dg:sw:vo:dd:dq

CONCURRENCES								
SYMBOL	▶							
SURNAME								
DATE								
EFA Form 1320-1 (12-70)				J OFFICIAL FILT		AL FILE COPY		

d. Delete: milk.

e. Revise: (paper mill - Bulk pulp section)

"To prevent foul odours and general"

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to read

"To control foul odours and general ... *

f. Revise: (paper mill - Bulk pulp section)

"...single slug dose will provide protection for un to 3 days...

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to read

"...single slug dose will provide control for up to 3 days..."

3. Your release for shipment of the product hearing the amended labeling constitutes acceptance of these conditions.

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

5. If you have any questions concerning this letter, contact Valdis Goncarous at (703) 557-3663.

Sincerely yours,

John H. Lee

Product Manager (31) Disinfectants Branch Registration Division (H7505C)

MYACIDE AS PLUS

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PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER

Corrosive.Causes eye and skin damage. Do not get in eyes, on skin or clothing. May be fatat if swallowed. Avold breathing dust. Wear goggies or face shield and rubber gloves when handling.

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 NPDE.: permit. Do not discharge effluent containing this product to sever 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.

PESTICICE 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 guidence.

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 stme-forming bacteria and algae in industrial recirculation cooling towers and evaporative condensers. METHOD AND LOCATION 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 turbulance to ensure quick dissolution (e.g. the pump outlet from the tower sump). FREQUENCY MYACIDE AS PLUS may be slug dosed once or twice weekly ACCEPTE as a normal routine. Where contamination is heavy, more with C in In frequent shock dosing may be required. QUANTITY - INITIAL AND MAINTAINANCE JUN 1 8 1990 MYACIDE AS PLUS should be shock dosed at between 25g and 100g per cubic meter (0.21-0.84 lbs/1000 gallons) depending on the condition of the tower, the quality of the taw. water input and the amount of bleed off. 3752-5

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WATERFLOOD

Inhibit growth of anaerobic and aerobic bacteria in all waterflood base fluids used in the recovery of oil and gas from reservoirs. METHOD AND LOCATION MYACIDE AS PLUS can be added as a dry product or pre-dissolved in any base fluid, or injected directly at the well head. FREQUENCY MYACIDE AS PLUS should be added continuously to waterflood fluids or slug dosed depending on the bottom hole tempreture

and fluid chemistry.

QUANTITY - INITIAL AND MAINTENANCE

MYACIDE AS PLUS may be added at the rate of 25-10C ppm (0.009 to 0.036 lbs. per barrel) depending on the quality of the base fluid.

PIPELINE MAINTENANCE

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

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METHOD AND LOCATION

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MYACIDE AS PLUS may be pre-dissolved in warm water or in a carrier solvent to give up to a 20% concentrate. This concentrate can be injected directly into the pipeline or may be added to the hydrocarbon phase. Using carrier solvent addition of MYACIDE AS PLUS directly into the hydrocarbon phase will produce long term water phase concentrations by a diffusion process.

FREQUENCY

Carrier additions will vary with the degree of contamination and volume of fluids through the pipeline. Slug treatments are recommended and can vary from daily to monthly control growth.

QUANTITY - INITIAL AND MAINTENANCE

MYACIDE AS PLUS should be dosed at a rate which will achieve concentrations of 25-200 ppm in the aqueous phase. When using a carrier solvent, higher initial concentrations may be used to allow diffusion into the aqueous phase. Dose will depend on the volume of oil or crude 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 AS PLUS may be used as the solid or pre-dissolved in a quantity of warm water, then 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 0.018 to 0.036 pounds per barrel total mud volume. 6-12

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 AS PLUS can be added as a dry product or pre-dissolved in each volume of fluid prior to injection. FREQUENCY MYACIDE AS PLUS should be added at a rate of 50 - 100 ppm (0.018 to 0.036 lbs per barrel) based on the water percent of the injection fluid.

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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. 8-12

METHOD AND LOCATION

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MYACIDE AS PLUS may be pre-dissolved in warm water to give up to a 20% concentrate. This concentrate can be injected directly into the water bottom or may be sprayed over the surface of the hydrocarbon phase and allowed to percolate through.

Using a carrier solvent addition of MYACIDE AS PLUS into the hydrocarbon phase will provide long term water concentrations by a diffusion process.

FREQUENCY

Direct addition to the water phase should be carried out every 30 - 60 days. Using a carrier solvent for addition to the hydrocarbon phase will provide longer term water concentrations depending on frequency of hydrocarbon movement, draining of water bottom and other factors.

QUANTITY - INITIAL AND MAINTENANCE

MYACIDE AS PLUS should be dosed at a rate which will achieve concentrations of 50 - 100 ppm. In the aqueous phase. When using a carrier solvent, higher initial concentrations may be used to allow diffusion into the aqueous phase.



INDUSTRIAL PROCESS WATER

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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

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Dosing should be carried out into the sump/tank of the process water system. Shock dosing is preferred. It is not necessary to dilute MYACIDE AS PLUS concentrate prior to dosing.

MYACIDE AS PLUS can also be used as an intermittent flush treatment during regular maintenance cleaning of tanks and equipment.

FREQUENCY

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 or twice monthly) would be sufficient.

QUANTITY - INITIAL AND MAINTENANCE

Dosing should be carried out to give an initial concentration of 50 ppm. (50 g/cubic meter or 0.42 lbs/1000 gallons). When the above treatment has been successful, dosing can be lowered to a minimum of 10 ppm. MYACIDE AS PLUS (10 g/cubic meter or 0.08 lbs/1000 gallons). For intermittent treatment of industrial process waters during routine maintenance MYACIDE AS PLUS should be used at 100 ppm. (100 g/cubic meter or 0.84 lb/1000 gallons) and a contact time of at least one hour.







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WELL SQUEEZE FLU'DS For the effective control of aerobic and anaerobic bacteria in squeeze fluids and dewnhole well bore areas.

METHOD AND LOCATION

MYACIDE AS PLUS may be added during pre-mixing of the well squeeze fluid or (in the case of direct mix injection systems) an aqueous solution may be added by direct injection at the well head during the well squeeze procedure.

FROUENCY

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MYACIDE AS FLUS should be used for each well squeeze operation to ensure best results.

QUANTITY - INITIAL AND MAINTENANCE

MYACIDE AS PLUS should be added at a rate of 25-200 g, per cubic meter (0.21~1.68 lbs./1000 gallons) depending on the quality of the makeup water.

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) or pre-dissolved in water and added as a solution. A dose of 250ppm is recommended for initial treatment, higher levels to to 1000 ppm, but no greater for fouled systems. After addition of MYACIDE AS PLUS, the system should be circulated for about one hour before shut-down. IN DILUTED FLUIDS

A concentration of 250 to 1000 ppm of MYA^IDE AS PLUS in the fluid is sufficient to control gross microbial growth. For example, add 0.5 ib of MYACIDE AS PLUS to 1000 ib of fluid to obtain a dose level of 500 ppm in the fluid.

MAINTENANCE DOSAGE

Add 100-200 ppm of MYACIDE AS PLUS to maintain control of the system.

IN CONCENTRATES

MYACIDE AS PLUS may be incorporated in metalworking fluid concentrate by the manufacturer. However, the manufacture. should determine the storage stability of MYACIDE AS PLUS in the concentrate to ensure that incompatability will not affect its efficacy. The amount to be incorporated will depend on the dilution factor recommended for the concentration.

BEST AVAILABLE COPY

(PAPER MILL PROCESS WATER For the control of slime-forming bacteria in paper or paperboard process water systems. METHOD AND LOCATION MYACIDE AS PLUS may be dosed as the solid 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 AS PLUS 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 AS PLUS should be dosed at between 10g and 250g (0.02 and 0.5 lbs) per tonne of finished paper or paperboard depending on the complexity of the system, quality of raw pape and type and degree of contamination. PAPER MILLS - BULK PULP For the preservation of bulk quantities of pulp in paper^R and paperboard manufacturing systems. To prevent foul odows and general biodeterioration of stock when it is stored in bulk for any significant period of time. METHOD AND LOCATION MYACIDE AS PLUS may be dosed as the solid or pre-dissolved in a quantity of warm water, then dosed directly into the hydropulper, machine chest or stock chest. FREQUENCY In general a single slug dose will provide protection for up to 3 days or longer depending upon the initial level of contamination in the stock. In situations where contamination is high, repeat

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QUANTITY - INITIAL AND MAINTENANCE

dosing every 1 - 7 days may be required.

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