JUN 18 1990

The Boots Company FLC Boots Microcheck Gromp These Road Bottingham, England NG2 3NA

Attention: D.J. Smith/W. Guthrie R6D Pleaning

Product Name: Myacide S-1 Registration Number 33753-6 Submission Date Feb. 21, 1990

. . · · . .

The amendment referred to above, submitted in connection with registration under FIFEA 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 FIFRA sec. 3(c)(5) 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 bearing the amended labeling:

a. Delete:

.

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

b. Add the following statements to the precautionary labeling section on page 2.

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

c. As per phone conversation, the ingredient percentage has been corrected to 18.2%.

PLEASON IL C. IL-O. FERCO. DE /01 /00.05 ONCURER ES									
SYMBOL									
DATE									
EPA Porm	1320-1 (12-70)				••••••••••••••••••••••••••••••••••••••				

d. Inert Ingredients adjusted to read 81.8%.

e. Include the Net Contents.

3. Note that this letter addresses two amendment submitted (Industrial Process Water-Use dilution Adjustment and Metal Working Fluid-use pattern addition).

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

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

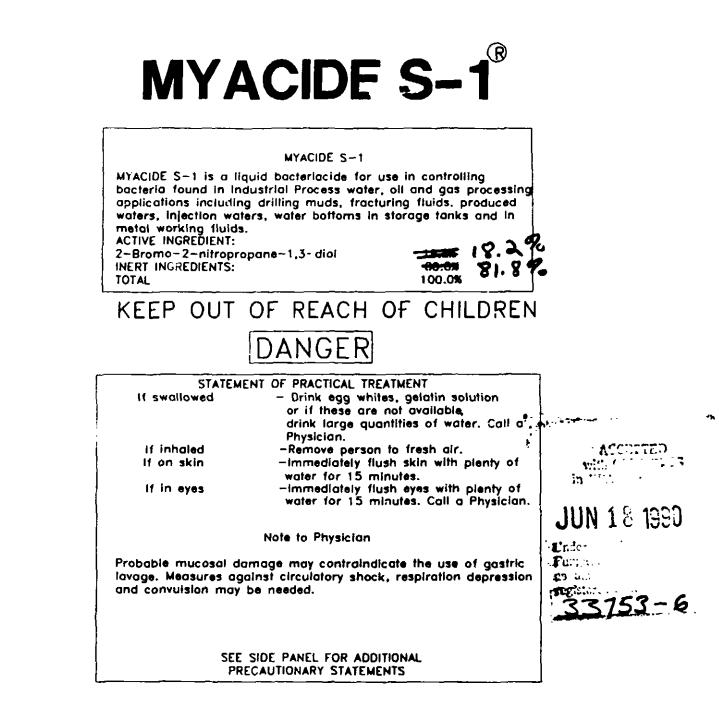
If you have any questions concerning this letter, contact Valdis Goncarous at (703) 557-3663.

Sincerely yours,

John H. Lee

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

١.



4

5

MYACIDE S-1 IS A RESEARCH DISCOVERY OF THE BOOTS COMPANY PLC NOTTINGHAM ENGLAND

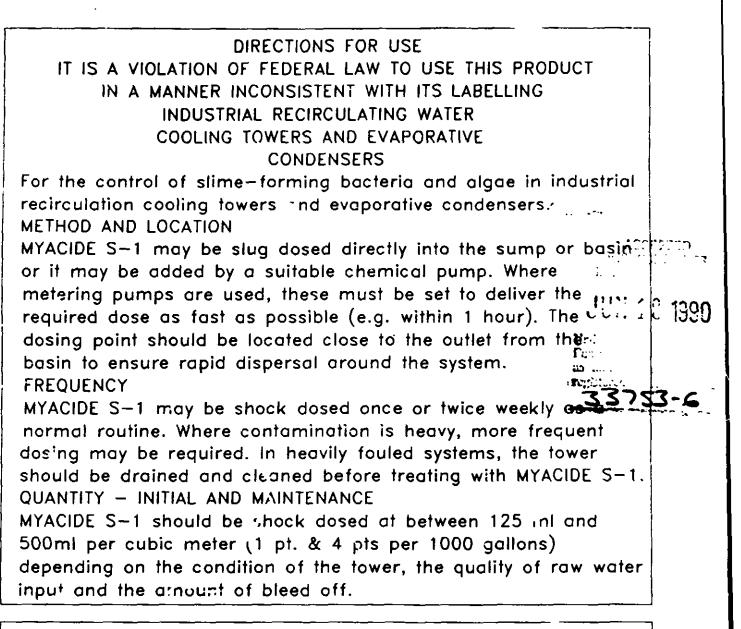
MYACIDE IS A REGISTERED TRADEMARK OF THE BUOTS COMPANY PLC

EPA REG NUMBER 33753-6 EPA EST NUMBER 33753-EN-1

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 fatal if swallowed. Avoid breathing dust. Wear goggles or face shield and rubber gloves when handling.	
ENVIRONMENTAL HAZARDS This pesticide is toxic to fish. Do not discharge effluent containing this product into takes, 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 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 19:SPOSAL Do not contaminate water, food, or feed by storage or disposal. Keep away from heat.	ACCIPTED Ndt 2003 In E
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 guidence.	- UUU 12 1909
CONTAINER DISPOSAL: Completely empty container and triple rinse (or equivale Then offer for recycling or recynditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.	ent).

(...

(



(

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-1 should be injected as a slug dose ct any convenient point.

FREQUENCY

Depending on severity and rapidity of contamination, MYACIDE S-1 should be used from once a week to once a month.

QUANTITY - INITIAL AND MAINTENANCE

125-500 mls/cubic meter (1 pt-4 pts/1000 gallons)



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-1 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-1 should be slug dosed from once a week to once a month. OUANTITY - INITIAL AND MAINTAINANCE 125-500 mls/cubic meter (0.042-0.17 pts. per barret). ACCEPTED WIT CONTRACTS IN TALL JUN 12 1990 3753-6 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-1 should be used for each fracturing operation to ensure best results. QUANTITY - INITIAL AND MAINTAINANCE MYACIDE S-1 should be added at a rate of 250-500 mizicubic meter (2 pts-4 pts/1000 gallons) depending on the quality of the makeup water.

(

5

BEST AVAILABLE GOPY

INDUSTRIAL PROCESS WATER

7

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

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

METHOD AND LOCATION

Dosing should be carried out into the sump/tank of the processing in $L_{1,1}^{+}$ water system. Shock dosing is preferred. JUN 18

MYACIDE S-1 can also be used as an intermittant, flush treatment during regular maintenance cleaning of water tanks (non-potable) or equipment.

FREQUENCY

Dirat. 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 with little possibility of re-infection or loss of MYACIDE S-1 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 250 ppm MYACIDE S-1 (250 mls/cubic meter or 2 pts/1000 gallons). When the above treatment has been successful. dosing can be lowered to a minimum of 50 ppm MYACIDE S-1. (50 mls/cubic meter or 0.4 pts/1000 gallons). For intermittant treatment of industrial process waters during routine maintenance MYACIDE S-1 should be used at 500 ppm (500mls /cubic meter or 4 pts/1000 gallons) and a contact time of at least one hour.

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-1 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-1 should be dosed at a rate which will achieve concentrations of 250-500 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.



PIPELINE MAINTENANCE

(

JUN 18 1990

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

METHOD AND LOCATION

MYACIDE S-1 can be injected directly into the pipeline or may be added to the hydrocarbon phase. Addition of the MYACIDE S-1 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-1 should be dosed at a rate which will achieve concentrations of 125-1000 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.

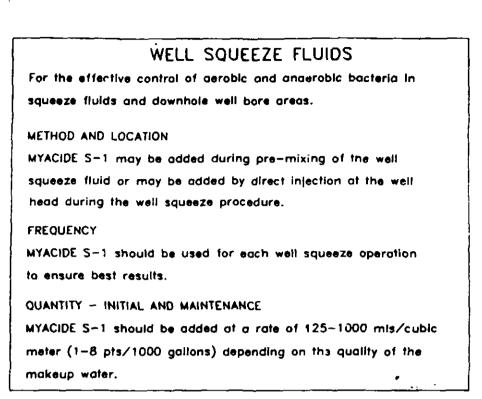
METHOD AND LOCATION

MYACIDE S-1 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 0.09 to 0.18 pts./barrel total mud volume.



(

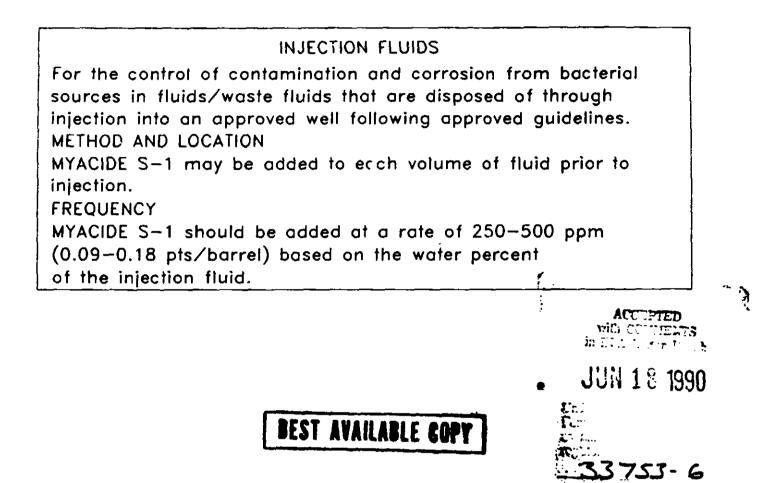
(

£

Ļ

ACCEPTED

JUN 18 1990 U: F **i**. . 33753-6



(]

(....

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-1 may be added during mixing or by injection during the EOR procedure. FREQUENCY MYACIDE S-1 should be added throughout the EOR operation. QUANTITY - INITIAL AND MAINTENANCE MYACIDE S-1 should be added at the rate of 250 - 500 ppro (0.09 to 0.18 pts. per barrel) depending on the quality of the make up water.

 L_{1}

DRILLING FLUIDS

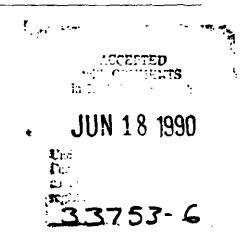
(

Ċ

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

METHOD AND LOCATION MYACIDE S-1 may be dosed directly into the mud hopper. FREQUENCY A single slug dose once to three times each 24hrs. QUANTITY - INITIAL AND MAINTENANCE Each slup dose should be 0.09 to 0.18 ats (barrel total mud

Each slug dose should be 0.09 to 0.18 pts./barrel total mud volume.



1 1 1 2

METALWORKING FLUIDS MYACIDE S-1 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 1500 ppm is recommended for initial treatment, higher levels up to 5000 ppm, but no greater for fouled systems. After addition of MYACIDE S-1 the system should be circulated for about one hour before shutdown. IN DILUTED FLUIDS A concentration of 1500 to 5000 ppm of MYACIDE S-1 in the fluid is sufficient to control gross microbial growth. For example, add 2.5 gallons of MYACIDE S-1 to 1000 gallons of fluid to obtain a dose level of 2500 ppm in the fluid. MAINTENANCE DOSAGE Add 500-1000 ppm of MYACIDE S-1 to maintain control of the system. IN CONCENTRATES MYACIDE S-1 may be incorporated in metalworking fluid concentrate by the manufacturer. However, the manufacturer should determine the storage stability of MYACIDE S-1 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 concentrationant ACCEPTED

with Comments

JUN 18 1990

3753-6

I

Under Eler-

(

(