

PM-31

Reg # 48301-27

192

Please read instructions on reverse before completing form.

Form Approved, OMB No. 2070-0060, Approval expires 05-31-98



United States
Environmental Protection Agency
Washington, DC 20460

☐ Registration
☐ Amendment
☒ Other

OPP Identifier Number

251407

Application for Pesticide - Section I

1. Company/Product Number 48301-27	2. EPA Product Manager Marion J. Johnson	3. Proposed Classification ☒ None ☐ Restricted
4. Company/Product (Name) MYACIDE AS-Plus	PM# 31	
5. Name and Address of Applicant (Include ZIP Code) ANGUS Chemical Company 1500 E. Lake Cook Rd. Buffalo Grove, IL 60089 ☐ Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

☐ Amendment - Explain below.	☐ Final printed labels in response to Agency letter dated _____
☐ Resubmission in response to Agency letter dated _____	☐ "Me Too" Application.
☒ Notification - Explain below.	☐ Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification of addition of use in absorbent clays to labelling.
End-use previously approved by Agency (4-10-95).

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging ☒ Yes* ☐ No	Unit Packaging ☐ Yes ☒ No	Water Soluble Packaging ☐ Yes ☒ No	☐ Metal ☐ Plastic ☐ Glass ☒ Paper ☐ Other (Specify) _____		
* Certification must be submitted		If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt. No. per container		
3. Location of Net Contents Information ☐ Label ☒ Container		4. Size(s) Retail Container 25 kg fiber drum		5. Location of Label Directions ☒ On Label ☐ On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product ☒ Lithograph ☐ Paper glued ☐ Stenciled		☐ Other _____			

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)			
Name Abigail Trueblood	Title Regulatory Compliance Specialist	Telephone No. (Include Area Code) (708) 215-8600	
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.			6. Date Application Received (Stamped)
2. Signature <i>Abigail Trueblood</i>	3. Title Regulatory Compliance Specialist		
4. Typed Name Abigail Trueblood	5. Date 9-28-95		

BEST AVAILABLE COPY

in a manner inconsistent with its labeling.

COOLING TOWERS AND

sulation cooling towers and evaporative condensers, sump or basin or it may be added to the cooling water at point where there is adequate flow or turbulence (sump).

used once or twice weekly as a normal routine. Where joined, MYACIDE AS PLUS should be shock-dosed at the tower, the quality of the raw water input, and the

side-reducing bacteria in formation water produced by d as the solid or pre-dissolved in a quantity of warm water stream at any convenient point. It should be inject-

of contamination, MYACIDE AS PLUS should be slug-

if growth in industrial process water, including closed (potable) water, as well as to reduce the biofouling of microbially produced corrosion. Dosing should be carried out as follows: It is not necessary to dilute PLUS can also be used as an intermittent flush treatment.

could be carried out on a once weekly to once monthly circuit systems, less frequent dosing (once or twice give an initial concentration of 50 ppm (0.42 lb/1000 gal) can be lowered to a minimum of 10 ppm MYACIDE industrial process waters during routine maintenance, gallons) and a contact time of at least one hour.

NO COMPLETION FLUIDS

adding bacteria in oil and gas well drilling muds and solved in a quantity of warm water, then dosed direct-

ness each 24 hours. Dosing may be less frequent where 0.036 lb per barrel total mud volume.

reducing bacteria, growth in oil and gas related production AS PLUS in warm water or in a carrier solvent to give it into the pipeline or may be added to the hydrocarbon PLUS will produce long-term water phase concentra-

degree of contamination and volume of fluids through from daily to monthly to control growth. MYACIDE AS s of 25-200 ppm in the aqueous phase. When using a esion into the aqueous phase. Dose will depend on the

waterflood base fluids used in the recovery of oil and dissolve in a/y base fluid, or inject directly at the well

added continuously to waterflood fluids or slug-dosed at the rate of 25-100 ppm (0.009-0.036 lb per barrel)

INJECTION FLUIDS

For the control of contamination and corrosion from bacterial sources in fluid/waste fluids that are disposed of through injection into an approved well following approved guidelines, add MYACIDE AS PLUS as a dry product or pre-dissolved in each volume of fluid prior to injection.

FREQUENCY AND DOSE: MYACIDE AS PLUS should be added at a rate of 50-100 ppm (0.018-0.036 lb per barrel) based on the water percent of the injection fluid.

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, add MYACIDE AS PLUS during mixing as a dry product or pre-dissolve or add by injection during the EOR process.

FREQUENCY AND DOSE: MYACIDE AS PLUS should be added throughout the EOR operation at the rate of 50-100 ppm (0.018-0.036 lb per barrel) depending on the quality of the makeup water.

WELL SQUEEZE FLUIDS

For the effective control of aerobic and anaerobic bacteria in squeeze fluids and downhole well bore areas, add MYACIDE AS PLUS 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.

FREQUENCY AND DOSE: MYACIDE AS PLUS should be used for each well squeeze operation to ensure best results. Add MYACIDE AS PLUS at a rate of 0.21-1.08 lb/1000 gallons, depending on the quality of the makeup water.

FRACTURING FLUIDS

MYACIDE AS PLUS reduces bacterial contamination and degradation of fracturing gels and fluids used as well stimulants in the oil and gas industry. MYACIDE AS PLUS may be added during pre-mixing of the fracturing fluid or (in the case of direct mix injection systems) an aqueous solution may be added by direct injection at the head during the fracturing procedure.

FREQUENCY AND DOSE: MYACIDE AS PLUS should be used for each fracturing operation to ensure best results. MYACIDE AS PLUS should be added at a rate of 0.42-0.84 lb/1000 gallons depending on the quality of the makeup water.

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

FREQUENCY AND DOSE: 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 long term water concentrations depending on frequency of hydrocarbon movement, draining of water bottom, and other factors. 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.

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 250 ppm is recommended for initial treatment, higher levels up to 1000 ppm, but no greater for isolated 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 MYACIDE AS PLUS in the fluid is sufficient to control gross microbial growth. For example, add 0.5 lb of MYACIDE AS PLUS to 1000 lb 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 concentrates by the manufacturer. However, the manufacturer should determine the storage stability of MYACIDE AS PLUS 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.

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 the best accomplished by pre-dissolving the MYACIDE AS PLUS in any water to be incorporated into the formulation.

PAPER MILL PROCESS WATER

To control slime-forming bacteria in paper or paperboard mill process water, add MYACIDE AS PLUS as the solid at a convenient point early in the process head box or backwater loop system.

FREQUENCY AND DOSE: MYACIDE AS PLUS should be added at a rate of 50-100 ppm (0.018-0.036 lb per ton) of finished paper or paperboard depending on degree of contamination.

PAPER MILLS - BULK PULP

To preserve bulk quantities of pulp in paper and paperboard mills, add MYACIDE AS PLUS as the solid or pre-dissolve in a quantity of warm water, then

FREQUENCY AND DOSE: In general, a single slug upon the initial level of contamination in the stock 1-7 days may be required. MYACIDE AS PLUS should be added at a rate of 0.21-1.08 lb/1000 gallons depending on the type and degree of

WATER-BASED PRINTING INKS

To inhibit growth on spoilage bacteria during the stock in-can preservation, add MYACIDE AS PLUS at any should be added as a final step after any heating stage bacterial spoilage during the use of fountain solutions, the fountain reservoir where there is adequate flow or it be shock-dosed once or twice weekly as a normal may be required.

IN-CAN PRESERVATION: MYACIDE AS PLUS should be added at a rate of 0.42-0.84 lb/1000 gallons.

FOUNTAIN SOLUTIONS: MYACIDE AS PLUS should be added at a rate of 0.42-0.84 lb/1000 gallons depending on the contamination levels in the

STARCH, PIGMENT AND EXTENDERS

To inhibit the growth of spoilage bacteria during the stock in-can preservation, MYACIDE AS PLUS may be dosed at pre-dissolved in a quantity of the process water. If AS PLUS should be added after this stage when the

FREQUENCY AND DOSE: MYACIDE AS PLUS should be added at a rate of 0.42-0.84 lb/1000 gallons.

PAINTS, LATEX AND ANTIFOULING

To provide in-can preservation and prevent bacterial spoilage of polyvinyl acetate and other latex emulsion concentrates, MYACIDE AS PLUS should be added as a final step after any heating stage bacterial spoilage during the use of fountain solutions, the fountain reservoir where there is adequate flow or it be shock-dosed once or twice weekly as a normal may be required.

FREQUENCY AND DOSAGE: MYACIDE AS PLUS should be added at a rate of 0.42-0.84 lb/1000 gallons.

ABSORBENT CLAYS

Impregnate absorbent clays with MYACIDE AS PLUS at a rate of 0.42-0.84 lb/1000 gallons.

ANGUS CHEMICAL COMPANY

BEST AVAILABLE COPY Recommended doses: expressed as ppm are ppm product.

Angus Chemical Company
1500 E. Lake Cook Road
Buffalo Grove, IL 60089

Attention: Allen Bollmeier
Manager, Regulatory Affairs

Subject: Myacide As Plus
EPA Registration No. 48301-27
Your Submission Dated March 17, 1995.

The submissions (correcting use dilutions) 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: "Do not get in eyes, on skin or clothing" must be retained.

b. Include the heading: Net Contents

c. Revise the Environmental Hazards section to comply with PR Notice 93-10.

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

3. 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

CONCURRENCE

SYMBOL									
SURNAME									
DATE									

Antimicrobial Program Branch
Registration Division (7505C)

143

MYACIDE[®] AS PLUS

ACTIVE INGREDIENT:

2-Bromo-2-nitropropane-1,3-diol95.0%

INERT INGREDIENTS:5.0%

TOTAL 100.0%

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
KEEP OUT OF REACH OF CHILDREN

DANGER

CORROSIVE: CAUSES EYE AND SKIN DAMAGE.
MAY BE FATAL IF SWALLOWED.

Avoid breathing dust.

Wash thoroughly with soap and water after handling.
Wear goggles or face shield and rubber gloves when handling.

Remove contaminated clothing and wash before reuse.

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.

ANGUS Chemical Company assumes no responsibility when this product is not used in accordance with the instructions and information contained on this label.

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

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.

See Additional Precautionary Statements on Side Panel and in Technical Bulletin.

EPA Reg. No. 48381-27

A-126C-1

EPA Est. No. 33753-EN-1

Printed in U.S.A.

ANGUS[®]

ANGUS Chemical Company
1500 E. Lake Cook Road
Buffalo Grove, IL 60089

MYACIDE is a registered trademark of The Boots Company PLC

ACCEPTED
APR 20 1995

48 301-27

BEST COPY AVAILABLE

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

INDUSTRIAL RECIRCULATING WATER COOLING TOWERS AND EVAPORATIVE CONDENSERS

To control slime-forming bacteria and algae in industrial recirculation 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 point where there is adequate flow or turbulence to ensure quick dissolution (e.g. the pump outlet from the tower sump).

FREQUENCY AND DOSE: MYACIDE AS PLUS may be slug-dosed once or twice weekly as a normal routine. When contamination is heavy, more frequent dosing may be required. MYACIDE AS PLUS should be slug-dosed at between 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.

PRODUCED WATER

To inhibit the growth of slime-forming or corrosion-inhibiting sulfate-reducing bacteria in formation water produced by wells together with oil or gas, MYACIDE AS PLUS may be used as the solid or pre-dissolved in a quantity of warm water or alcohol, then injected into the water-containing oil or gas stream at any convenient point. It should be injected in slug doses, not as a continuous feed.

FREQUENCY AND DOSE: Depending on severity and rapidity of contamination, MYACIDE AS PLUS should be slug-dosed from once a week to once a month with 0.016-0.036 lb per barrel.

INDUSTRIAL PROCESS WATER

Use MYACIDE AS PLUS to effectively control bacterial and algal growth in industrial process water, including closed circuit machine cooling (jetting, washing, etc.) and closed (non-potable) water, as well as to reduce the biofouling of pipework, heat exchangers, condenser tubes, and to minimize microbially produced corrosion. Dosing should be carried out into the main supply of the process water system. Slug-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 tank and equipment.

FREQUENCY AND DOSE: In open systems, slug-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. Dosing should be carried out to give an initial concentration of 80 ppm (0.42 lb/1000 gallons). When the above treatment has been successful, dosing can be lowered to a minimum of 10 ppm MYACIDE AS PLUS (0.06 lb/1000 gallons). For intermittent treatment of industrial process waters during routine maintenance, MYACIDE AS PLUS should be used at 100 ppm (0.44 lb/1000 gallons) and a contact time of at least one hour.

DRILLING FLUIDS AND WORKOVER AND COMPLETION FLUIDS

To inhibit the growth of sulfate-reducing, slime-forming or sulfate-reducing bacteria in oil and gas well drilling fluids and brines, 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 AND DOSE: A single slug dose once or three times each 24 hours. Dosing may be less frequent where the contamination is low. Each slug dose should be 0.016 to 0.036 lb per barrel total mud volume.

PIPELINE MAINTENANCE

To control aerobic and anaerobic bacteria, particularly sulfate-reducing bacteria, growth in oil and gas related production piping and transportation systems, pre-dissolve MYACIDE AS PLUS in warm water or in a carrier solvent to give up to 20% concentrate. This concentrate can be injected directly into the pipeline or may be added to the hydrocarbon phase. Using carrier solvent addition of the MYACIDE AS PLUS will produce long-term water phase concentrations by a diffusion process.

FREQUENCY AND DOSE: 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 to control growth. 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 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.

WATERFLOOD

To inhibit the growth of anaerobic and aerobic bacteria and oil waterflood base fluids used in the recovery of oil and gas reservoirs, add MYACIDE AS PLUS as a dry product or pre-dissolve in any base fluid, or inject directly at the well head.

FREQUENCY AND DOSE: MYACIDE AS PLUS should be added continuously to waterflood fluids or slug-dosed depending on the bottom hole temperature and fluid chemistry at the rate of 25-100 ppm (0.008-0.036 lb per barrel) depending on the quality of the base fluid.

INJECTION FLUIDS

For the control of contamination and corrosion from bacterial sources in field/wells in oil or through injection into an approved well following approved guidelines, add MYACIDE AS PLUS or pre-dissolved in each volume of fluid prior to injection.

FREQUENCY AND DOSE: MYACIDE AS PLUS should be added at a rate of 80-100 ppm (0.42-0.44 lb/1000 gallons) based on the water content of the injection fluid.

ENHANCED OIL RECOVERY (EOR) FLUIDS

For the effective control of bacterial growth and eliminating degradation of EOR gels and fluids in the industry, add MYACIDE AS PLUS during mixing as a dry product or pre-dissolve or add by in process.

FREQUENCY AND DOSE: MYACIDE AS PLUS should be added throughout the EOR operation (0.016-0.036 lb per barrel) depending on the quality of the makeup water.

WELL SQUEEZE FLUIDS

For the effective control of aerobic and anaerobic bacteria in aqueous fluids and dissolved MYACIDE AS PLUS during pre-mixing of the well squeeze fluid or (in the case of direct well injection) an aqueous solution may be added by direct injection at the well head during the well squeeze process.

FREQUENCY AND DOSE: MYACIDE AS PLUS should be used for each well squeeze operation. Add MYACIDE AS PLUS at a rate of 0.21-1.05 lb/1000 gallons, depending on the quality of the water.

FRACTURING FLUIDS

MYACIDE AS PLUS reduces bacterial contamination and degradation of fracturing gels and fluids in the oil and gas industry. MYACIDE AS PLUS may be added during pre-mixing of the fracturing fluid or (in the case of direct well injection operations) an aqueous solution may be added by direct injection at the well head during the fracturing process.

FREQUENCY AND DOSE: MYACIDE AS PLUS should be used for each fracturing operation. MYACIDE AS PLUS should be added at a rate of 0.42-0.84 lb/1000 gallons depending on the quality of the water.

WATER BOTTOMS IN OIL OR TRANSPORTATION TANKS

For effective control of bacterial contamination in water bottoms in crude and refined hydrocarbon storage tanks and large waste systems are all suitable for treatment. Above and below ground storage tanks and large waste systems are all suitable for treatment. 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 diffuse into the water phase. Using a carrier solvent for addition of MYACIDE AS PLUS into the hydrocarbon phase will produce long-term water phase concentrations by a diffusion process.

FREQUENCY AND DOSE: Direct addition to the water phase should be carried out every 30 days or solvent for addition to the hydrocarbon phase will provide long term water concentrations of 25-200 ppm in the aqueous phase, depending on the degree of contamination, mixing of water bottom, and other factors. MYACIDE AS PLUS should be added at a rate which will achieve concentrations of 50-100 ppm in the aqueous phase. When using a carrier solvent, higher concentrations may be used to allow diffusion into the aqueous phase.

METALWORKING FLUIDS

MYACIDE AS PLUS is recommended for use in soluble oils, semi-synthetic, and synthetic metalworking fluids. MYACIDE AS PLUS may be added directly to the sump (with agitation) or pre-dissolved in water and added as a solution. A dose of 100-200 ppm is recommended for initial treatment, higher levels up to 1000 ppm, but no greater for finished operations. When using 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 MYACIDE AS PLUS in the fluid will control gross microbial growth. For example, add 0.5 lb of MYACIDE AS PLUS to 1000 lb of fluid of 800 ppm in the fluid.

MAINTENANCE DOSAGE: Add 100-200 ppm of MYACIDE AS PLUS to maintain control of microbial growth.

IN CONCENTRATES: MYACIDE AS PLUS may be incorporated in metalworking fluid concentrates. However, the manufacturer should determine the storage stability of MYACIDE AS PLUS in the concentrate. The amount to be incorporated will depend on the concentration of the concentrate.

ADHESIVES

For the control of microbial contamination, add 0.1-0.5 lb of MYACIDE AS PLUS per 100 lb of adhesive. The addition is best accomplished by pre-dissolving the MYACIDE AS PLUS in any water used in the formulation.

BEST COPY AVAILABLE