PM 31 33753-5

# APR 1 6 19961

Dr. Clive Aveyard Knoll MicroCheck Knoll Pharmaceuticals Ltd. Thane Road (D90) Nottingham NG2 3AA England UNITED KINGDOM

SUBJECT: MYACIDE AS EPA Registration No. 33753-3 MYACIDE AS Plus EPA Registration NO. 33753-5 MYACIDE S-1 EPA Registration No, 33753-6 MYACIDE S2 EPA Registration No. 33753-7 MYACIDE S15 EPA Registration No. 33753-17 Amendments Dated October 17, 1995

Dear Dr. Aveyard:

This is in response to your amendments dated above requesting approval of the skin sensization statements on each label.

The labelings referred to above, submitted in connection with registation under the Federal Insecticide, Fungicide, and Rodenticide Act, are acceptable subject to the comment listed below.

1. Under the "Statement of Practial Treatment", "If swallowed, " delete, "Drink egg whites, gelatin solution, if these are not available...". Submit five copies for each the finished labels before you release the products for shipment bearing the amended labeling.

Sincere

Marion J. Johnson, Jr. Product Manager Manager 31 Antimicrobial Program Branch Registration Division (7505)

1575C 1575C 141.96

### MYACIDE<sup>™</sup> AS PLUS

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

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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.

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If in eyes - Ammediately 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 KNOLL PHARMACEUTICALS UTD, THANE ROAD, NOTTINGHAM EUCLAND MYACIDE IS A REGISTERED, TRADEMARK OF KNOLL AG

EPA REG. NUMBER 33753 - 5 EFA EST - NUMBER 33753 - 6BR 003 - - PRECAUTIONAR

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. May cause allergic skin reactions in certain individuals. 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 disposel 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 autorities. If burned, stay out of smoke.

ACCEPTED with CANDENNES In EPA Lease thereof APR 1 6 1996 Under the Fungicible Its enterties Statistics AS 3703-6

#### **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 nive an initial concentration of 50 ppm MYACIDE AS PLUE. (500/Jubic inter 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.

#### 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 weak or month. Heavily fouled systems may require twice weakly 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 for a 4g sachet in 20 gallons) of water will achieve 50 ppm.

#### OIL PROCESS WATERS

To inhibit the growth of slime-forming or corrosion inducing sulfate reducing bacteria in oil and gas well injection and formation waters.

MYACIDE AS PLUS should be injected as a slug dose at any convenient point at 25-100 ppm (0.009 to 0.036 lb/barrel). A slug dose should be applied from once per week to once per month depending on the severity and rapidity of contamination.

#### OIL AND GAS FLUIDS

For the control of contamination and degradation of a wide range of gels and fluids caused by cellulolytic, slime forming or sulfate reducing bacteria. The type of fluids include fracturing, enhanced oil recovery, injection, well squeeze, drilling, waterflood, workover and completion fluids.

MYACIDE AS PLUS may be pre-mixed or added directly to the fluids during each industrial procedure. MYACIDE AS PLUS should be added at the rate of 50-100 ppm (0.018 to 0.036 lb/barrel).

For well squeeze fluids Myacide AS PLUS should be added at 25-200 ppm depending on the quality of the makeup water.

OIL AND GAS PIPEUNE AND TANK MAINTENANCE	PAIN" ATEX AND ANTIFOAM EMULSION SYSTEMS	WATER BASED PRINTING INKS AND FOUNT SOLUTIONS
	To provide in can preservation and prevent bacterial	To inhibit the grouth of appliant hustaria during the
To control bacterial contamination in water bettoms in	To provide an cash prosent provide of acrylic, styrene-	To inside the growth of sponage decisies jobs and fount
crude and refined hydrocarbon storage tanks, piping and	sponage oprany sherrare and other lates anyleion	storage and use of water cased printing inks and rount
transportation systems	acrylic, polyvinyi acetate and other latex emploide	solutions.
	concentrates and latex emulsion based paints. Also for	
MYACIDE AS PLOS can be invected directly into the water	the preservation of silicone and other antifeam emulsion	For in-can preservation MYACIDE AS PLUS should be
Norther De Ag ( 200 can be injected on control arbon	evotems.	added at any convenient point during the manufacturing
Dottom, pipeline of may be abled to the involution		process ideally after any heating state and when the
phase	ANVACIDE AC DUUC may be added at any convenient	process, means and an interesting areas and termine and
	MITACIDE AS I LOS may be added of any contraction	product new cooled to delow 40.40
Treatment can vary from once daily for pipeline	point during the manufacturing process. logally it should	
maintenance to once every one or two months for both	be added as a final just prior to packing of the product	For control of bacterial spoilage during the use of fount
storage and transportation systems. Addition to the	into bulk or sales packs.	solutions, MYACIDE AS PLUS should be shock dosed at a
budrocarbup obase will result in longer term protection by		suitable point in the fount reservoir where there is
and uni diffusion into the water obase. MYACIDE AS	If a heating stage is involved in the manufacture, add	adequate flow or turbulence to ensure quick mixing.
gradual diffusion and the value product 25,200 nom in the	MYACIDE AS PLUS after this stage when the product has	MYACIDE AS PILIS may be shock dosed once or twice
PLUS should be applied to achieve 25 200 pph added	cooled to below 40°C.	weath, as a normal relation. Where conditions indicate
aqueous phase. Inoner concentrations that be added		Weekly as a normal fourner. Where Conductions indicates
when dosing the hydrocarbon phase.		more frequent shock dosing may be required.
	MYACIDE AS PLUS should be dosed at 100 to 500 ppm	
MYACIDE AS PLUS should be dosed at a rate which will	based on the final formulation volume (100 to 500	In-can preservation - MYACIDE AS PLUS should be dosed
achieve concentrations of 25-200 nom in the aqueous	a/cubic meter or 0.84 to 4.2 lb/1000 gallons).	at 100 to 500 ppm based on the final formulation volume
where Higher conceptrations may he used to allow		(100 to 500 g/cubic mater or 0.84 to 4.2 lb/1000
priase, righter concorrientits may be used to anoth		antianal Enunt adultant, MVACIDE AC DELIC about the
diffusion into the aqueous phase. Dose will behend on	METALWORKING FLUIDS	gallons). Pount solution - MTAULE AS PLUS should by
the volume of crude or oil and the expected water		shock dosed at between 25 to 100 ppm (25 to
fraction	MUACIDE AC DELIC is recommended for use in actuals alle	100 g/cubic meter; 0.21 to 0.84 lb/1000 gallons)
	MYACIDE AS PLUS IS RECOMMENDED TOF USE IN SOUDIE OILS,	depending on the contamination levels in the fount
	semi-synthetic and synthetic fluids. It should be added	reservoir
PAPER MILL PROCESS WATER	directly to the sump (with agitation) and the system should	
	be circulated for about one hour before shutdown.	
For the control of shme forming bacteria in paper or		STADOU DIGNENT AND EVTENDED SHIDDLES
FOR THE CONTROL OF SHIDE-TORDING DICTERIE AT MEDICI OF	In diluted fluids, a concentration of 250 to 1000 ppm of	STARUR, FIORERT AND EXTERIOR SLORAES
paperboard process water systems.	In unuted indus, a concontration of 200 to 1000 ppill of	
	MTALICE AS PLUS IN THE TICK IS SUBJECTED TO CONTROL	To inhibit the growth of spoilage bacteria during the
MYACIDE AS PLUS may be dosed at a convenient point	microbial growth (1.0 lb of MYACIDE AS PLUS in 1000 lb	manufacture, storage and distribution of water based
early in the process system (machine chest, constant head	will give a dose level of 1000 ppm), for maintenance, add	suspension concentrates.
box or backwater loop systemi	200-400 ppm of MYACIDE AS PLUS.	
		MVACIDE AS PILIS may be dored at or close to the end
ANYACITY AS BUILS should be shack doesd area twice or	MYACIDE AS PIUS may be incorporated in metalworking	af the menufacturing success of a heating store in
MITACIDE AS PEUS SHOULD DE SHOUR DUSED DICE, TWILE DE	Build concentrate by the manufacturer whe should occure	or the manufacturing process, it a heating stage is
i three times daily at between 10 g and 250 g 10.02 and	now concentrate by the menuracturer who should ensure	involved, the MYACIDE AS PLUS should be added after
0.5 (b) per tonne of finished paper or paperboard depending	that any incompatibility will not affect efficacy.	this stage when the product has cooled to below 40°C.
on the complexity of the system, quality of raw paper and		
type and degree of contamination		MYACIDE AS PLUS should be dozed at 100 to 500 ppm
	ADHESIVES	based on the final formulation volume (100 to 500 alcubic
]		meter or 0.84 to 4.7 th/1000 collone1
PAPER MILLS - BULK PULP	For the control of microbial contamination, add 0.1-0.5 lb	THE REAL PROPERTY IN THE REAL PROPERTY.
	of MYACIDE AS PLUS per 100 lb total formulation weight.	
For the preservation of bulk quantities of pulp in paper	The addition is best accomplished by adding the MYACIDE	* .
and prosthoard manufacturing systems. To control foul	AS PLUS to any water to be incorporated into the	· · · · · · · · · · · · · · · · · · ·
and paperboard manoracioning systems, reconsidered	formulation	
odours and general biodeterioration of stock when it is	Torrowandon.	CHEMICAL TOILET DEODORANTS
stored in bulk for any significant period of time.		
		To inhibit the growth of odor-causing bacteria in chemical
MYACIDE AS PLUS may be dosed directly into the		toilets. Deodorant concentrates should incorporate
hydropulper, machine chest or stock chest	ADDUNDENI LLATD	MYACIDE AS PLUS at levels of 1-28% depending on the
	In the standard standard attacks and the standard stand	desired concentration level. To effectively control odor in a
in general a single slug dose will provide control for up to	impregnate absorbent clays with MYACIDE AS PLUS to	nortable toilet, a level of 100-500 nom (0.84 to 4.2
3 days or longer depending upon the initial level of	inhibit the growth of odor-causing bacteria. The	Ib/1000 callonet MVACIOF AS PLUS is recommended
contamination in the stock. In situations where	suggested application rate is 25-200 ppm of Myacide AS	I WITCOV VERCENT MITACIAC AO ECODI INTEGORINADORO.
rontamination is both reneat dosing every 1-7 days may	Pius (0.04-0.32 oz sv.) per 100 pounds of clay.	
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	and the second	
THAT GOT AT DUGS should be doesd as hot was 50 a and		a a a a a a
ACTACICE ASJEDS SHOULD BE DOSED AT DECREDEN ON & AND	Arm	سەربان بېرى ر
200 g tonne of stock 10.42 lb - 1.7 lb/1000 gallons)	The CEPTER	
depending on the type and depending on the type and	WILD COMPRESS	
degree of contamination.	th Spa WWWNTS	
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have been a second and a second secon	ADD . Construction	
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