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		CIDE	S_1®	
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	MYACIDE S-1 is a liqui bocteria found in Indus applications including waters, injection waters metal working fluids. ACTIVE INGREDIENT: 2-Bromo-2-nitropropo INERT INGREDIENTS; TOTAL	MYACIDE S-1 d bacteriacide for use i strial Process water, oil drilling muds, fracturing s, water bottoms in stor ane-1,3-diol	n controlling and gas process fluids, produced age tanks and in 18.2% 81.8% 100.0%	ing.
	KEEP OUT C	F REACH OF	CHILDRI	EN
Г	STATEME	DANGER		
	STATEME If swallowed If inhaled If on skin If in eyes Probable mucosal dam lavage.	PRACTICAL TREATM - Drink egg whites, (or if these are not drink large quantiti Physician. -Remove oerson to -Immediately flush s water for 15 minute -Immediately flush e water for 15 minute Note to Physician age may contraindicate	ENT gelatin solution available, ss of water. Call fresh air. kin with plenty o is. nyes with plenty c bs. Call a Physici the use of gastr	a f of an.
	SEE SI PREC	DE PANEL FOR ADDITION AUTIONARY STATEMENTS	AL	
	MYACIDE S~ The boots co	1 IS A RESEARCH DISCO MPANY PLC NOTTINGHAI	VERY OF A ENGLAND	CCEPTED Mar 1 9 1991
	MYACIDE OF 1	IS A REGISTERED TRADI	EMARK	is the Federal Insecticide, spicide, and Rodenticide Act, amended, for the pesticide
	EPA EPA E	REG NUMBER 33753-6 ST NUMBER 33753-EN-	1	Rug. No. 33753 6
	NE	T CONTENTS 5 gallons		· · · · · · · · · · · · · · · · · · ·
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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 fatal if swallowed. Avoid breathing dust. Wear goggles or face shield and rubber gloves when handling. 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, ocsans, 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 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 guidence.

CONTAINER DISPOSAL:

Completely empty liner by 5 aking and tapping sides and bottom to loosen clingi, 3 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.



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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 at any convenient point.

FREQUENCY

Depending on severity and rapidity of contamination, MTACIDE 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)

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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 streat. It 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. QUANTITY - INITIAL AND MAINTAINANCE 125-500 mis/cubic meter (0.042-0.17 pts. per barrel).

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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 ml/cubic meter (2 pts-4 pts/1000 gallons) depending on the quality of the makeup water.



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INDUSTRIAL PROCESS WATER

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

Dosing should be carried out into the sump/tank of the process water system. Shock dosing is preferred.

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

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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.

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.

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PIPELINE MAINTENANCE

To control aerobic and anaerobic bacteria, particularly sulfate 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 dase 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.

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WELL SQUEEZE FLUIDS
For the effective control of aerobic and anaerobic bacteria in
squeeze fluids and downhole well bore areas.
METHOD AND LOCATION
MYACIDE S-1 may be added during pre-mixing of the well
squeeze fluid or may be added by direct injection at the well
head during the well squeeze procedure.
FREQUENCY
FREQUENCY MYACIDE S—1 should be used for each well squeeze operation
FREQUENCY MYACIDE S—1 should be used for each well squeeze operation to ensure best results.
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MYACIDE S-1 should be used for each well squeeze operation to ensure best results. QUANTITY - INITIAL AND MAINTENANCE MYACIDE S-1 should be added at a rate of 125-1000 mls/cubic
FREQUENCY MYACIDE S-1 should be used for each well squeeze operation to ensure best results. QUANTITY - INITIAL AND MAINTENANCE MYACIDE S-1 should be added at a rate of 125-1000 mIs/cubic meter (1-8 pts/1000 gallons) depending on the quality of the
FREQUENCY MYACIDE S-1 should be used for each well squeeze operation to ensure best results. QUANTITY - INITIAL AND MAINTENANCE MYACIDE S-1 should be added at a rate of 125-1000 mls/cubic meter (1-8 pts/1000 gallons) depending on the quality of the makeup water.



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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 S-1 may be added to each volume of fluid prior to injection. FREQUENCY MYACIDE S-1 should be added at a rate of 250-500 ppm (0.09-0.18 pts/barrel) based on the water percent

of the injection fluid.



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DRILLING FLUIDS

For the preservation of oil and gas well drilling 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 slug dose should be 0.09 to 0.18 pts./barrel total mud volume.

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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 concentration.

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For the control of microbial contamination, add 0.5-2.5 pts. of Myacide S1 per 100 lb. total formulation weight. The addition is best accomplished by adding the Myacide S1 to any water to be incorporated into the formulation.

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PAPER MILL PROCESS WATER

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For the control of slime-torming bacteria in paper or paperboard process water systems.

METHOD AND LOCATION

MYACIDE S1 may be dosed 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 S1 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 S1 should be dosed at between 50mls and 1250 mls (0.1 and 2.5 pts) 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 adours and general biodeterioration of stock when it is stored in bulk for any significant period of time.

METHOD AND LOCATION

MYACIDE S1 may be dosed directly into the hydropulper, machine chest or stock chest.

FREQUENCY

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.

QUANTITY -- INITIAL AND MAINTENANCE

MYACIDE S1 should be dosed at between 250mls and 1000mls per tonne of stock (2 - 8 pts/1000 gallons) depending on the type and degree of contamination.



STARCH, PIGMENT AND EXTENDER SLURRIES To inhibit the growth of spoilage bacteria during the manufacture, storage and distribution of water based suspension concentrates.

METHOD AND LOCATION

MYACIDE S1 may be dosed at or close to the end of the manufacturing process in a quantity of the process water. If the manufacturing process involves a heating stage, the MYACIDE S1 should be added after this stage when the product has cooled to below 40°C.

QUANTITY

MYACIDE S1 should be dosed at 500 to 2500 ppm based on the final formulation volume (500 to 2500mls/cubic metre or 4 to 20pts/1000 gallons).

PAINTS, LATEX 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.

METHOD AND LOCATION

MYACIDE S1 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 S1 after this stage when the product has cooled to below 40°C.

QUANTITY

MYACIDE S1 should be dosed at 500 to 2500 ppm based on the final formulation volume (500 to 2500mls/cubic metre or 4 to 20pts/1000 gallons).

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WATER BASED 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. METHOD AND LOCATION

For In-Can preservation MYACIDE S1 should be added at any convenient point during the manufacturing process. Ideally it should be added as a final step after any heating stage and when the product has cooled to below 40° C.

For the control of bacterial spoilage during the use of fount solutions, MYACIDE S1 should be shock dosed at a suitable point in the fount reservoir where there is adequate flow or turbulance to ensure quick mixing. MYACIDE S1 may be shock dosed once or twice weekly as a normal routine. Where conditions indicate, more frequent shock dosing may be required.

QUANTIFY

In-Can preservation - MYACIDE S1 should be dosed at 500 to 2500 ppm based on the final formulation volume (500 to 2500mls/cubic metre or 4 to 20pts/1000 gallons). Fount Solutions - MYACIDE S1 should be shock dosed at between 100 and 500 ppm (100 to 500mls/cubic metre ; 0.8 to 4pts /1000 gallons) depending on the contamination levels in the fount reservoir.

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