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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.

#### ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Do not discharge affluent 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 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 container and triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sonitary landfill, or by other procedures approved by state and local outhorities.

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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-2 should be injected as a slug dose at any convenient point.

FREQUENCY

Depending on severity and rapidity of contamination, MYACIDE S-2 should be used from once a week to once a month.

QUANTITY - INITIAL AND MAINTENANCE

50-200 mls/cubic meter (0.4-1.6 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.

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METHOD AND LOCATION

MYACIDE S-2 should be injected into the water-containing oil or gas stream is 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-2 should be slug dosed from once a week to once a month.

QUANTITY - INITIAL AND MAINTAINANCE

50-200 mls/cubic meter (0.018-0.072 pts. per barrel).

## 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-2 should be used for each fracturing operation to ensure best results.

QUANTITY - INITIAL AND MAINTAINANCE

MYACIDE S-2 should be added at a rate of 100-200 ml/cubic meter (0.8-1.6 pts/1000 gallons) depending on the quality the makeup water.



# 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 5-2 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-2 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 100 ppm MYACIDE S-2 (100 mls/cubic meter or 0.8 pts/1000 gallons). When the above treatment has been successful,

dosing can be lowered to a minimum of 20 ppm MYACIDE S-2 (20 mls/cubic meter or 0.16pts/1000 gallons). For intermittant treatment of industrial process waters during routine maintenance MYACIDE S-2 should be used at 200 ppm (200mls

/cubic meter or 1.6pts/1000 gallons) and a contact time of at least one hour.



## WATER BOTTOM'S 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-2 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-2 should be dosed at a rate which will achieve concentrations of 100-200 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

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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-2 can be injected directly into the pipeline or may be added to the hydrocarbon phase. Addition of the MYACIDE S-2 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-2 should be dosed at a rate which will achieve concentrations of 50-400 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-2 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 0.036 to 0.072 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-2 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

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MYACIDE S-2 should be used for each well squeeze operation to ensure best results.

QUANTITY - INITIAL AND MAINTENANCE MYACIDE S-2 should be added at a rate of 50-400 mls/cubic meter (0.42-3.36 pts/1000 gallons) depending on the quality of the makeup water.

#### METALWORKING FLUIDS

MYACIDE S-2 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 500 ppm is recommended for initial treatment, higher levels up to 2000 ppm, but no greater for fouled systems. After addition of MYACIDE S-2 the system should be circulated for about one hour before shutdown. IN DILUTED FLUIDS A concentro<sup>31</sup> ¬ of 500 to 2000 ppm of MYACIDE S-2 in the fluid is sufi... nt to control gross microbial growth. For example, add 1.0 gallon of MYACIDE S-2 to 1000 gallons of fluid to obtain a dose level of 1000 ppm in the fluid. MAINTENANCE DOSAGE Add 200-400 ppm of MYACIDE S-2 to maintain control of the system.

#### IN CONCENTRATES

MYACIDE S-2 may be incorporated in metalworking fluid concentrate by the manufacturer. However, the manufacturer should determine the storage stability of MYACIDE S-2 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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# INJECTION FLUIDS

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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-2 may be added to each volume of fluid prior to injection.

FREQUENCY

MYACIDE S-2 should be added at a rate of 100-200 ppm (0.036-0.072 pts/barrel) based on the water perce... 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.
METHOD AND LOCATION
MYACIDE S-2 may be added during mixing or by injection
during the EOR procedure.
FREQUENCY
MYACIDE S-2 should be added throughout the EOR operation.
QUANTITY - INITIAL AND MAINTENANCE
MYACIDE S-2 should be added at the rate of 100 - 200 ppm
(0.036 to 0.072 pts. per barrel) depending on the quality of
the make up water.



# ADHESIVES

For the control of microbial contamination, add 0.2-1.0 pint of Myacide S2 per 100 lb. total formulation weight. The addition is best accomplished by adding the Myacide S2 to any water to be incorporated into the formulation.

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#### PAPER MILL PROCESS WATER

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

METHOD AND LOCATION

MYACIDE S2 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 S2 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 S2 should be dosed at between 20mls and 500 mls (0.04 and 1.0 pint) 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 odours and general biodeterioration of stock when it is stored in bulk for any significant period of time.

METHOD AND LOCATION

MYACIDE S2 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 S2 should be dosed at between 100mls and 400mls per tonne of stock (0.8 pts - 3.2 pts/1000 gallons) depending on the type and degree of contamination.

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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 S2 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 S2 should be added after this stage when the product has cooled to below  $40^{\circ}$ C.

# QUANTITY

MYACIDE S2 should be dosed at 200 to 1000 ppm based on the final formulation volume (200 to 1000mls/cubic metre or 1.6 to 8pts/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 S2 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 S2 after this stage when the product has cooled to below 40°C.

QUANTITY

MYACIDE S2 should be dosed at 200 to 1000 ppm based on the final formulation volume (200 to 1000mls/cubic metre or 1.6 to 8pts/1000 gallons).



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 S2 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 S2 should be shock dosed at a suitable point in the fount reservoir where there is adequate flow or turbulance to ensure quick mixing. MYACIDE S2 may be shock dosed once or twice weekly as a normal routine. Where conditions indicate, more frequent shock dosing may be required. QUANTITY In-Can preservation - MYACIDE S2 should be dosed at 200 to

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1000 ppm based on the final formulation volume (200 to 1000mls/cubic metre or 1.6 to 8pts/1000 gallons). Fount Solutions - MYACIDE S2 should be shock dosed at between 40 and 200 ppm (40 to 200mls/cubic metre ; 0.32 to 1.6pts /1000 gallons) depending on the contamination levels in the fount reservoir.

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