

MYACIDE™ AS PLUS

MYACIDE AS PLUS is a concentrated free-flowing crystalline solid microbiocide for use in controlling bacteria and algae found in industrial applications. Not for the control of algae in the State of California.

ACTIVE INGREDIENT:
2-bromo-2-nitropropane-1,3-diol 95.0%
INERT INGREDIENTS: 5.0%
TOTAL 100.0%

KEEP OUT OF REACH OF CHILDREN

DANGER

ACCEPTED
MAY 30 1997

STATEMENT OF PRACTICAL TREATMENT

- Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 33753-5. Do not administer to an unconscious person. Call a physician.
- If swallowed - Drink water. Do not administer 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.
 - 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.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

MYACIDE AS PLUS IS A RESEARCH DISCOVERY OF KNOLL PHARMACEUTICALS, THANE ROAD, NOTTINGHAM ENGLAND

MYACIDE IS A REGISTERED TRADEMARK OF KNOLL AG

EPA REG. NUMBER 33753-5
EPA EST. NUMBER 33753-GBR 003

NET CONTENTS: SEE PACKAGE

PRECAUTIONARY STATEMENTS

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 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 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.

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 recirculating 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 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 give an initial concentration of 50 ppm MYACIDE AS PLUS (50g/cubic meter 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.

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INDUSTRIAL AND/OR COMMERCIAL AIR WASHERS, AIR CONDITIONING AND HUMIDIFYING SYSTEMS

For the control of bacterial and mold 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 week or month. Heavily fouled systems may require twice weekly treatment.

The initial dose should give a concentration of MYACIDE AS PLUS at 50 ppm (500 galibic meter or 0.12 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 4lb. 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 cellulosic, slime forming or sulfate reducing bacteria. The type of fluids include fracturing, enhanced oil recovery, injections, 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 25-300 ppm depending on the quality of the makeup water.

OIL AND GAS PIPEL ID TANK MAINTENANCE

To control bacterial contamination in water, borstons in crude oil and related hydrocarbon storage tanks, piping and transportation systems.

MYACIDE AS PLUS can be injected directly into the water bottom, pipeline or may be added to the hydrocarbon phase.

Treatment can vary from once daily for pipeline maintenance to once every one or two months for both storage and transportation systems. Addition to the hydrocarbon phase will result in longer term protection by gradual diffusion into the water phase. MYACIDE AS PLUS should be applied to achieve 25-200 ppm in the aqueous phase. Higher concentrations may be added when dosing the hydrocarbon phase.

MYACIDE AS PLUS should be dosed at a rate which will achieve concentrations of 25-200 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.

PAPER MILL PROCESS WATER

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

MYACIDE AS PLUS may be dosed at a convenient point early in the process system (machine chest, constant head box or backwater loop system).

MYACIDE AS PLUS should be shock dosed once, twice or three times daily at between 10 g and 250 g (0.02 and 0.5 lb) 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 biodegradation of stock when it is stored in bulk for any significant period of time.

MYACIDE AS PLUS may be dosed directly into the hydrocyclone, machine chest or stock chest.

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.

MYACIDE AS PLUS should be dosed at between 50 g and 300 g per tonne of stock (0.42 lb - 1.7 lb/1000 gallons) depending on the type and depending on the type and degree of contamination.

WATER BASED PRINTING AND FOUNT SOLUTIONS

To inhibit the growth of spoilage bacteria during the storage and use of water based printing inks and fountain solutions.

For in-plant preservation MYACIDE AS PLUS should be added at any convenient point during the manufacturing process, ideally after any heating stage and when the product has cooled to below 40°C.

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

In-plant preservation - MYACIDE AS PLUS should be dosed at 100 to 500 ppm based on the final formulation volume (100 to 500 galibic meter or 0.84 to 4.2 lb/1000 gallons). Fountain solution - MYACIDE AS PLUS should be shock dosed at between 50 to 100 ppm (50 to 100 galibic meter, 0.12 to 0.84 lb/1000 gallons) depending on the contamination level in the fountain reservoir.

STARCH, PIGMENT AND EXTENDER SLURRIES

To inhibit the growth of spoilage bacteria during the manufacture, storage and distribution of water based suspension concentrates.

MYACIDE AS PLUS may be dosed at or close to the end of the manufacturing process. If a heating stage is involved, the MYACIDE AS PLUS should be added after this stage when the product has cooled to below 40°C.

MYACIDE AS PLUS should be dosed at 100 to 500 ppm based on the final formulation volume (100 to 500 galibic meter or 0.84 to 4.2 lb/1000 gallons).

Not for use in pigments in the State of California.

CHEMICAL TOILET DEODORANTS

To inhibit the growth of odor-causing bacteria in chemical toilets. Broadband concentrations should incorporate MYACIDE AS PLUS at levels of 1-20% depending on the desired concentration level. To effectively control odor in a portable toilet, a level of 100-500 ppm (0.84 to 4.2 lb/1000 gallons) MYACIDE AS PLUS is recommended.

PAINTS, LATEX AND AMIUMAM EMULSION SYSTEMS

To provide in-plant preservation and prevent bacterial spoilage during shelf life storage of acrylic, styrene acrylic, epoxy vinyl acetate and other latex emulsion concentrates and other emulsion based paints. Also for the preservation of various and other emulsion emulsion systems.

MYACIDE AS PLUS may be added at any convenient point during the manufacturing process. Ideally it should be added at a final level most to packing of the product into bulk or sales packs.

If a finishing stage is involved on the manufacturer, add MYACIDE AS PLUS after that stage when the product has cooled to below 40°C.

MYACIDE AS PLUS should be dosed at 100 to 500 ppm based on the final formulation volume (100 to 500 galibic meter or 0.84 to 4.2 lb/1000 gallons).

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) and the system should be circulated for about one hour before shutdown.

In diluted fluids, a concentration of 250 to 1000 ppm of MYACIDE AS PLUS in the fluid is sufficient to control microbial growth (1.0 lb of MYACIDE AS PLUS at 1000 lb will give a dose level of 1000 ppm). For maintenance, add 100-400 ppm of MYACIDE AS PLUS.

MYACIDE AS PLUS may be incorporated in metalworking fluid concentrate by the manufacturer who should ensure that any incompatibility will not affect efficacy.

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 best accomplished by adding the MYACIDE AS PLUS to any water to be incorporated into the formulation.

ORGANISMEI CLAYS

Incompatible absorbent clays with MYACIDE AS PLUS to inhibit the growth of odor-causing bacteria. The suggested application rate is 25-200 ppm of Myacide AS Plus (0.91 to 2.2 lb per 1000 gallons) of clay.

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