

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

MAR 19 1998

John W. Kennedy Consultants
13 "C" Street, Suite G
Laurel, MD 20707

Attention: John W. Kennedy

Subject: Myacide 515
EPA Registration Number 33753-17
Your Submission Dated February 2, 1998
EPA Received Date February 11, 1998

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, to revise the Confidential Statement of Formula and product labeling, is acceptable.

The revised, updated Confidential Statement of Formula dated February 2, 1998, is in compliance with PR Notice 91-2. It agrees with the label.

This formulation is cleared by FDA for use to manufacture food grade adhesives and paper and paperboard products.

A stamped copy of the labeling is enclosed for your records.

If you have any questions concerning this letter, please contact Karen M. Leavy-Munk at (703)-308-6237.

Sincerely yours,



Marshall Swindell
Product Manager (33)
Regulatory Management Branch I
Antimicrobial Division (7510W)

CONCURRENCES

| CONCURRENCES | | | | | | | |
|--------------|--|--|--|--|--|--|--|
| SYMBOL | | | | | | | |
| SURNAME | | | | | | | |
| DATE | | | | | | | |

MYACIDE® S15

MYACIDE S15 is a liquid microbicide for use in controlling the growth bacteria and algae in industrial applications. Not for the control of algae in the State of California.

| | |
|---------------------------------|-------|
| ACTIVE INGREDIENT: | % w/w |
| 2-bromo-2-nitropropane-1,3-diol | 10.0 |
| INERT INGREDIENTS: | 90.0 |
| TOTAL | 100.0 |

KEEP OUT OF REACH OF CHILDREN

DANGER

STATEMENT OF PRACTICAL TREATMENT

- If swallowed - 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.
- 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

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Corrosive. Causes eye and skin damage. Do not get in eyes, on skin or clothing. Wear long sleeve shirt and long pants, socks plus shoes. Wear goggles or face shield and chemical resistant rubber gloves when handling. Do not apply this product in a way that will contact workers or other persons. Harmful or fatal if swallowed. May cause allergic skin reactions in certain individuals. Wash thoroughly with soap and water after handling. Discard clothing or other absorbent materials that have been heavily contaminated with this product's concentrate. Do not reuse them. Remove lightly contaminated clothing and wash separately from other laundry using detergent and hot water before re-use.

Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

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.

DIRECTIONS FOR USE

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELLING

GENERAL USE DIRECTIONS

To control the growth of slime-forming, spoilage, odor-causing and corrosion inducing bacteria and algae in industrial applications.

MYACIDE S15 can be dosed directly either by open pouring (not cooling water treatment) or by motorized pump.

For product preservation MYACIDE S15 is best added after any heating stage or when the product has cooled below 40 °C.

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

Empty residue into application equipment. Triple rinse (or equivalent) then offer container for recycling or reconditioning, or puncture. Dispose of container in a sanitary landfill, or by incineration, if allowed by State and local authorities. If burned, stay out of smoke.

MYACIDE® IS A REGISTERED TRADEMARK OF KNOLL AG

EPA REG. NUMBER 33753 - 17
EPA EST. NUMBER 33753-GBR-003

NET CONTENTS: SEE PACKAGE

ACCEPTED

MAR 19 1998

Under the Federal Insecticide, Fungicide, and
Rodenticide Act as amended, for the
pesticide, registered under
EPA Reg. No. 33753-17

**INDUSTRIAL RECIRCULATING WATER
COOLING TOWERS AND EVAPORATIVE CONDENSERS**

MYACIDE S15 may be dosed directly into the sump or basin or added by a suitable chemical pump. Where metering pumps are used, these must be set to deliver the required dose within 1 hour. The dosing point should be located close to the outlet from the basin to ensure rapid dispersal around the system. Do not apply by open pouring of the liquid.

Shock dose MYACIDE S15 once or twice weekly as a normal routine or more frequently where contamination is heavy. In heavily fouled systems, the tower should be drained and cleaned before treating.

MYACIDE S15 should be shock dosed at 250 to 1000 ppm (2 pt to 8 pt per 1000 gallons) depending on the condition of the tower, the quality of raw water input and the amount of bleed off.

INDUSTRIAL PROCESS WATER

For use 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. In open systems shock dose once weekly to once monthly depending on the degree of contamination. Closed circuit systems require less frequent dosing.

Dose initially at 500 ppm MYACIDE S15 (4 pt/1000 gallons), then when successful, lower to a minimum of 100 ppm. For intermittent treatment during routine maintenance use MYACIDE S15 at 1000 ppm and a contact time of at least one hour.

OIL AND GAS FLUIDS

For use in both terrestrial and off-shore drilling muds and packer fluids, for the control of contamination and degradation of a wide range of gels and fluids including fracturing, enhanced oil recovery, injection, well squeeze, drilling, workover and completion fluids. Add MYACIDE S15 at 500 to 1000 ppm (4-8pt/1000 gallons or 0.18 - 0.36 pt per barrel).

For well squeeze fluids add MYACIDE S15 at 250-2000 ppm (2-16 pt/1000 gallons).

OIL PROCESS WATER

For use in oil and gas well injection and formation waters. MYACIDE S15 should be injected as a slug dose at any convenient point at 250-1000 ppm (2 pt - 8 pt/1000 gallons). A slug dose should be applied from once per week to once per month depending on the severity of contamination.

OIL & GAS PIPELINE AND TANK MAINTENANCE

For use in water bottoms in crude and refined hydrocarbon storage tanks, piping and transportation systems.

Inject MYACIDE S15 directly into the water bottom or pipeline, or add to the hydrocarbon phase. Treat once daily for pipeline maintenance to once every one or two months for both storage and transportation system. MYACIDE S15 should be applied to achieve 250-2000 ppm in the aqueous phase. Add higher concentrations to the hydrocarbon phase which will result in longer term protection by gradual diffusion into the water. Dose will depend on the volume of crude or oil and the expected water fraction.

ADHESIVES

Add 1 to 5 pt of MYACIDE S15 per 100 lb. total formulation weight to any water to be incorporated into the formulation.

METALWORKING FLUIDS

For use in soluble oils, semi-synthetic and synthetic fluids. Add directly to the sump and circulate for about one hour before shutdown. MYACIDE S15 may be incorporated in metalworking fluid concentrate by the manufacturer who should ensure that any incompatibility will not affect efficacy.

In diluted fluids, 2500 to 10,000 ppm of MYACIDE S15 (5 gallons of MYACIDE S15 in 1000 gallons will give a dose level of 5000 ppm). For maintenance, add 1000-4000 ppm of MYACIDE S15.

PAPER MILL PROCESS WATER

Add at a convenient point early in the process system (machine chest, constant head box or backwater loop system).

Dose MYACIDE S15 once to three times daily at 10 to 250 ppm in the process water depending on the complexity of the system, quality of raw paper and type and degree of contamination. This equates to 100 to 2500 ml (0.2 to 5 pt.) per tonne of finished paper or paperboard.

PAPER MILLS - BULK PULP

Add MYACIDE S15 directly into the hydropulper, machine chest or stock chest. Apply MYACIDE S15 once weekly to once daily at 500 to 2000 ppm (500 to 2000 ml per tonne of stock or 4 - 16 pt/1000 gallons) depending on the type and degree of contamination.

ABSORBENT CLAYS

Impregnate absorbent clays by spraying or pouring 250-2000 ppm of MYACIDE S15 (0.4-3.2 oz av. per 100 pounds of clay).

STARCH, PIGMENT AND MINERAL SLURRIES

Apply MYACIDE S15 to water based suspension concentrates at 1000 to 5000 ppm based on the final formulation volume (8 to 40 pt/1000 gallons).

Not for use in pigments in the State of California.

PAINTS AND OTHER EMULSION SYSTEMS

For the preservation of acrylic, styrene-acrylic, polyvinyl acetate and other latex emulsion, latex emulsion based paints, photographic emulsions, silicone and other antifoam emulsion systems.

Add MYACIDE S15 at 1000 to 5000 ppm based on the final formulation volume (8 to 40 pt/1000 gallons).

WATER BASED PRINTING INKS AND FOUNTAIN SOLUTIONS

During the use of fountain solutions, shock dose MYACIDE S15 at 500 to 1000 ppm (4 to 8pt/1000 gallons) depending on the contamination. Apply once weekly the fountain as a normal routine, or more frequently if required.

For in-can preservation dose MYACIDE S15 at 1000 to 5000 ppm based on the final formulation volume (8 to 40 pt/1000 gallons).

**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 week or month. Heavily fouled systems may require twice weekly treatment.

The initial dose of Myacide S15 should be 475 ml/cubic meter or 3.8 pints/1000 gallons (equivalent to 50 ppm active ingredient). Subsequent dosing can be reduced by half.

Intermittent treatment during regular maintenance and cleaning at a level equivalent to 100 ppm active ingredient is also recommended with a contact time of at least one hour.

ACCEPTED

MAR 19 1983
Under the Federal Insecticide, Fungicide, and
Rodenticide Act as amended, for the
pesticide, registered under
EPA Reg. No. 33759-17