New 12-12-2011

Biotrol 515
Commercial Microbiocide

A microbiocide for controlling slime-forming and sulfate-reducing bacteria, fungi, yeasts, and algae. For use in paper mills and associated process waters; industrial cooling systems for water, steam, and condensate; boiler feedwater; hot and cold process waters; food and non-food contact paper and paperboard; non-food contact water-based coatings for paper and paperboard; air washers and industrial scrubbers; recirculating cooling and process water systems; heat transfer systems, reverse osmosis membranes, service water and auxiliary systems; industrial wastewater systems including wastewater sludge and holding tanks; papermaking metalworking fluids; and preservation of food contact adhesives and mineral slurries used in papermaking.

ACTIVE INGREDIENTS:
- Glutaraldehyde 15.0%
- Sodium Ethyl Alcohol 85.0%

TOTAL: 100.0%

KEEP OUT OF REACH OF CHILDREN

DANGER

If in eyes:
- Hold open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lens. If present, after 5-10 minutes, then continue rinsing eye.

If on skin:
- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.

If ingested:
- Call a poison control center or doctor for treatment advice.
- Call a poison control center or doctor immediately for treatment advice.

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 800-255-3924 for emergency medical treatment instructions.

NOTE TO PHYSICIAN

Probable cardiovascular effects may countermand the use of cardiac glycoside.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Contraindicated. Caution: irreversible eye damage. Causes skin irritation. Harmful if inhaled, swallowed or absorbed through the skin. May cause allergic skin reaction. Causes respiratory tract irritation. Avoid breathing dusts or vapors. Not to be used as an aerosol. Do not swallow. Wear eye goggles, rubber gloves and protective clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other water supplies 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 pesticide to sewer systems without notifying the sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA. Do not contaminate water when disposing of equipment washwaters.

INSTRUCTIONS IN Case of Spills or Leaks:
- Wear rubber gloves, protective glasses, and protective clothing. Avoid breathing dusts or fumes. A HEPA filter with N95 or P100 mask is sufficient. Remove contaminated clothing and wash with soap and water.

In Case of Fire:
- Use water, carbon dioxide, dry chemical (e.g., Sodium bicarbonate) extinguishing media. Fire fighters should be equipped with self-contained breathing apparatus and turned gear.

CONTAINER DISPOSAL
- Triple trip (or equivalent) the offer for recycling or reconditioning, or disposal. Use of a solubilizer, sand, or other procedures approved by State and local authorities.

GENERAL

Consult Federal, State and local authorities for approved alternative procedures RCRA Hazardous Waste Code 0002.

DIRECTIONS FOR USE

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

GENERAL USE DIRECTIONS

Add Biotrol 515 at a point where application is safe and practical, either before or after the use of algaecide. Biotrol 515 may be applied through an existing tubing line or by continuous feed where feasible. Where applicable, feed points should be below the water line to minimize vapor.

AIR WASHERS AND INDUSTRIAL SCRUBBERS

System recirculating cooling and process water systems. Use only in industrial water systems, which may have minor microbiologic problems. Biotrol 515 may be applied through an existing tubing line or by continuous feed wherever feasible. Add at a place such as the sump, which is below the water level. Inlet Dose:

DISTRIBUTED BY:

U.S. WATER SERVICES
330 South Cleveland Avenue
Cambridge, MN 55008-1749

NET CONTENTS:

BIOTROL 515 should be added to a metalworking fluid system at a point of uniform flow such as the main injection point. Additions may be added intermittently at intervals of one week or less. Subsequent Dosing: When the system is not visibly loaded, apply 0.2-0.3 g/ml (0.3-0.5 g/l) of Biotrol 515 per 1,000 gallons of water in the system. Subsequent Dosing: For maintenance, use a continuous feed of 15-40 mg, L (0.03-0.08 g/l) of Biotrol 515 per 1,000 gallons of water in the system per day. Reversal of Reactions

Reversal of MS Membrane

Use only when approved for compatibility by the membrane manufacturer. Meniscus membrane in a tank containing 0.67% to 0.67ppm Biotrol 515 for 6 to 24 hours. Biotrol 515 may also be added to the recirculating systems installed outside of service membranes. Add 0.07% to 0.22ppm Biotrol 515 to the slurry on the circulating system and maintain this concentration by periodic addition to counteract any system leakage. Flush the system through with clean water before returning to service.

SERVICE WATER AND AUXILIARY SYSTEMS

Use systems such as fire water reserves, spray paint booths, and emergency cooling water systems. Discharge initially at 40-80 psi, (325-650 ppm) of Biotrol 515 per 1,000 gallons of water in the system. Reapply as necessary to maintain this concentration.

INDUSTRIAL WASTEWATER SYSTEMS

For use in sanitary and industrial waste, pressurized and digested waste, and settling tanks. Add 1.7 to 7.7 gallons (6.5 to 29 liters) of Biotrol 515 per 1,000 gallons of wastewater or sludge. Add at a place such as the digester.

PAPER MILLS AND ASSOCIATED PROCESS WATER SYSTEMS

Apply by intermittent or continuous food systems. If necessary, the where the water is not visibly contaminated, add occasionally to the paper mill (dry basis). Repeat until control is achieved.

Pigments and FiIler Surfactants for Food-

PAPER AND PAPERBOARD

To inhibit the growth of spoilage microorganisms during manufacturing; storage and distribution of pigments and filler slurries such as kaolin, calcium carbonate and titanium dioxide. Add Biotrol 515 to a concentration of 0.2-0.6 g/l (3.3-10 lbs. per 10,000 lbs. of surfactant) and continue to monitor this product. Add Biotrol 515 at 330-220 ppm (by weight of the formulation slurry (3.9-30 lbs. of Biotrol 515 per 10,000 lbs. of surfactant).