ACTICIDE® DBU 20

A MICROBIOCIDE BACTERICIDE, FUNGICIDE, ALGACIDE AND SLIMICIDE, USED IN TREATING RECIRCULATING COOLING WATER IN INDUSTRIAL COOLING SYSTEMS, PAPER MILLS, AIR-WASHER SYSTEMS, INDUSTRIAL PRESERVATION APPLICATIONS.

ACTIVE INGREDIENT: 2,2-Dibromo-3-nitropropionamide ........................................... 20%
OTHER INGREDIENTS: .................................................................................. 80%
TOTAL: ........................................................................................................ 100%

10 pounds ACTICIDE® DBU 20 liquid per gallon.

KEEP OUT OF REACH OF CHILDREN

DANGER

CHEMICAL AND PHYSICAL HAZARDS: Reaction with strong reducing agents may be explosive. Avoid mixing.

STORAGE AND DISPOSAL: Do not contaminate water, food or feed by storage or disposal. STORAGE: Store in a dark, cool, dry, well-ventilated area, not above 104°F (40°C), in well-closed original containers, away from energy sources, combustible organic materials, oxidizers and moisture. 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 HANDLING: Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or mix tank. Fill the container ½ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty rinsates into application equipment or mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling, if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

SPILLS: When handling or dealing with spills, use impact-resistant goggles with side shields, or face shield; wear body-covering clothing, including impervious rubber gloves and boots; use a respirator if misting occurs. Cover wet spills with 10% sodium bicarbonate solution, water and then an absorbent before sweeping up and disposing as described for pesticide disposal. If drum contents are contaminated or decomposing, isolate unsealed drum in the open or in a well-ventilated area, food with 10% sodium bicarbonate solution and large volumes of water if necessary.

WARRANTY: Seller warrants that this product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with label directions under normal conditions of use, but neither this warranty nor any other warranty of MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, express or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to Seller, and Buyer assumes the risk of any such use.

Distributed by:

EPA Reg. No. 88714-2-67071
EPA Est. No. Lot#: Net Contents: (LBS.)
ACTICIDE® DBU 20

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Read entire label and use strictly in accordance with precautionary statements and directions.

DIRECTIONS FOR TREATING INDUSTRIAL RECIRCULATING COOLING WATER IN INDUSTRIAL COOLING SYSTEMS: NOTE: Add ACTICIDE® DBU 20 separately to the system. Do not mix it with other additives, so as to avoid decomposition of ACTICIDE® DBU 20 due to the high pH of many additive formulations. Add ACTICIDE® DBU 20 to the basin (or any other point of uniform mixing). Adjustment should be made via a metering pump; it may be continuous or intermittent, depending on the severity of the contamination when treatment is begun, and the in-system retention time. Optimum performance with this product is achieved by continuous or intermittent treatment. If “shock” treatment is used, the blowdown should be discontinued for 24-48 hours.

FOR CONTROL OF BACTERIA: Add 0.00096-0.0095 gallons of ACTICIDE® DBU 20 / 1000 gal. of water in the system depending on the severity of contamination.

INTERMITTENT OR SLUG METHOD: Initial Dose: When the system is noticeably fouled, add 0.004-0.0095 gal. of ACTICIDE® DBU 20 / 1000 gal. of water in the system. Repeat until control is achieved. Subsequent Dose: When microbial control is evident, add 0.000-0.0095 gal. of ACTICIDE® DBU 20 / 1000 gal. of water in the system every 4 days, or as needed to maintain control. Badly fouled systems must be cleaned before treatment is begun.

CONTINUOUS FEED METHOD: Initial Dose: When the system is noticeably fouled, add 0.004-0.0095 gal. of ACTICIDE® DBU 20 / 1000 gal. of water in the system. Subsequent Dose: Maintain this level by pumping a continuous feed of 0.00096-0.0094 gal. of ACTICIDE® DBU 20 / 1000 gal. of water in the system. Badly fouled systems must be cleaned before treatment is begun.

FOR CONTROL OF FUNGI AND ALGAE: Add 0.029-0.095 gal. of ACTICIDE® DBU 20 / 1000 gal. of water in the system, depending on the severity of contamination.

INTERMITTENT OR SLUG METHOD: Initial Dose: When the system is noticeably fouled, add 0.048-0.095 gal. of ACTICIDE® DBU 20 / 1000 gal. of water in the system. Repeat until control is achieved. Subsequent Dose: When microbial control is evident, add 0.029-0.095 gal. of ACTICIDE® DBU 20 / 1000 gal. of water in the system daily, or as needed to maintain control. Badly fouled systems must be cleaned before treatment is begun.

CONTINUOUS FEED METHOD: Initial Dose: When the system is noticeably fouled, add 0.048-0.095 gal. of ACTICIDE® DBU 20 / 1000 gal. of water in the system. Subsequent Dose: Maintain this treatment level by pumping a continuous feed of 0.029-0.095 gal. of ACTICIDE® DBU 20 / 1000 gal. of water in the system per day. Badly fouled systems must be cleaned before treatment is begun.

DIRECTIONS FOR TREATING PULP AND PAPER MILL SYSTEMS: NOTE: Add ACTICIDE® DBU 20 separately to the system. Do not mix it with other additives, so as to avoid decomposition of ACTICIDE® DBU 20 due to the high pH of many additive formulations. For the control of slime-forming bacterial, fungal, and yeast growth in pulp, paper and paperboard mills add ACTICIDE® DBU 20 at levels of 0.15-0.5 lb./ton (dry) of pulp or paper produced. Addition can be continuous or intermittent, depending upon the type of system and the severity of contamination. Addition is via a metering pump at a point in the system that will ensure uniform distribution of ACTICIDE® DBU 20 in the mass of fiber and water, such as the beaters, Jordan inlet or discharge, broke chests, furnish chests, save-alls and white-water tanks. Heavily fouled systems must first be boiled out, then treated with 0.15-0.35 lb. of ACTICIDE® DBU 20 / ton (dry) of paper or pulp for control. Moderately fouled systems should be treated continuously with 0.35-0.5 lb. of ACTICIDE® DBU 20 / ton (dry) of paper or pulp until the slime accumulation is controlled. Subsequent rates can then be reduced to 0.15-0.35 lb. of ACTICIDE® DBU 20 / ton (dry) of paper on a continuous or intermittent basis as needed for control. Dislodged slime may cause breaks in the paper and a clean-up of the paper machine may be advisable. Slightly fouled systems should be treated continuously with 0.15-0.35 lb. of ACTICIDE® DBU 20 / ton (dry) of paper or pulp until the slime is controlled, then added on an intermittent basis to maintain control.

DIRECTIONS FOR TREATING AIR-WASHER SYSTEMS: Add 0.0015-0.095 gallons ACTICIDE® DBU 20 / 1000 gal. of water in the system, depending on the severity of contamination, to control slimeforming bacteria and fungi in industrial air washing systems.

INTERMITTENT OR SLUG METHOD: Initial Dose: When the system is noticeably fouled, add 0.03-0.095 gal ACTICIDE® DBU 20 / 1000 gal. of water in the system. Repeat until control is achieved. Subsequent Dose: When microbial control is evident, add 0.0015-0.047 gal ACTICIDE® DBU 20 / 1000 gal. of water in the system every 2 days, or as needed to maintain control. Badly fouled systems must be cleaned before treatment is begun.

CONTINUOUS FEED METHOD: Initial Dose: When the system is noticeably fouled, add 0.003-0.095 gal ACTICIDE® DBU 20 / 1000 gal. of water in the system. Subsequent Dose: Maintain this level by pumping a continuous feed of 0.0015-0.047 gal ACTICIDE® DBU 20 / 1000 gal. of water in the system per day. Badly fouled systems must be cleaned before treatment is begun. NOTE: For use only in industrial air-washer systems that maintain effective mist eliminating components.

DIRECTIONS FOR TREATING OILFIELD AND PETROCHEMICAL SYSTEMS: ACTICIDE® DBU 20 may be used either in slug treatment or in continuous application. Dosages may vary from as much as 200 ppm of ACTICIDE® DBU 20 in slug application to 10 to 50 ppm of ACTICIDE® DBU 20 in continuous treatment (144 pint ACTICIDE® DBU 20 per 1,000 gallons of water equals approximately 30 ppm). A typical slug treatment is to add 1 pint of ACTICIDE® DBU 20 per 1,000 gallons at intervals as needed to prevent growth of microbial slime. Badly fouled systems may be slug treated to establish control, followed by continuous treatment to maintain control.

DIRECTIONS FOR INDUSTRIAL PRESERVATION APPLICATIONS: ACTICIDE® DBU 20 may be used to reduce microbiological contamination in raw materials and/or products such as: aqueous paints and coatings, polymers, slurries, adhesives, latex and emulsion emulsions, sizing, caustic, process water, along with specialty industrial products including: inks, polishes, waxes, detergents, and cleansers.

TO REDUCE MICROBIOLOGICAL CONTAMINATION: Add ACTICIDE® DBU 20 to the material or product at a concentration of 25 to 2,000 ppm by weight. This concentration is equivalent to 2.8 to 224 fluid ounces ACTICIDE® DBU 20 per 1,000 gallons or 21.4 to 1,712.0 milliliters ACTICIDE® DBU 20 per 1,000 liters. The required concentration will depend on the material being treated and the level of contamination present.