

## AQUAMATE DB20 SOLUTION

A MICROBIOCIDAL BACTERICIDE, FUNGICIDE, ALGICIDE AND SLIMICIDE USED IN TREATING RECIRCULATING COOLING WATER IN INDUSTRIAL COOLING SYSTEMS, PAPER MILLS, ENHANCED OIL RECOVERY SYSTEMS (NON-MARINE USES), METAL WORKING COOLING FLUIDS AND INDUSTRIAL PRESERVATION APPLICATIONS.

### COMMERCIAL

#### DANGER



POISON



CORROSIVE

**ACTIVE INGREDIENT:** 2,2-Dibromo-3-nitrilopropionamide..... 20%

**KEEP OUT OF REACH OF CHILDREN  
CORROSIVE TO EYES AND SKIN**

**READ THE LABEL BEFORE USING**

REGISTRATION NO. 33669 PEST CONTROL PRODUCTS ACT

NET CONTENTS: \_\_20 kg to 1247 kg\_\_\_\_\_

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## **DIRECTIONS FOR USE:**

### **INDUSTRIAL PRESERVATION**

AQUAMATE DB20 may be used to reduce microbiological contamination in nonfood contact raw materials and/or products such as: aqueous paints and coatings, pigment slurries, adhesives, latex and resin emulsions, sizing, caulk, along with specialty industrial products including inks, polishes and waxes. AQUAMATE DB20 can be added to adhesives, emulsions, suspensions and slurries used during manufacturing of paints, latex, emulsions, joint compounds waxes, polishes and inks. AQUAMATE DB20 should be added at a rate of 0.01% to 0.10% wt/wt of the formulation depending upon the level of contamination and product type.

#### Typical Use Levels:

AQUAMATE DB20 is typically effective when used at the concentrations listed below. The exact dose required for the preservation of a particular formulation will depend on the components, storage time, temperature, etc. and can be determined by testing. Concentrations are based on total formulation weight.

### **EFFECTIVE CONCENTRATION**

Latex Emulsions	0.01 - 0.1%
Adhesives	0.01 - 0.1%
Waxes, Polishes, Ink	0.01 – 0.1%
Pigment Slurries	0.01 – 0.1%
Aqueous Paints and Coatings	0.01 – 0.1%
Joint Compounds	0.01 – 0.1%

### **DIRECTIONS FOR TREATING INDUSTRIAL RE-CIRCULATING COOLING WATER IN INDUSTRIAL COOLING**

This product is for recirculating water systems only.

NOTE: Add AQUAMATE DB20 separately to the system. Do not mix it with other additive, so as to avoid decomposition of AQUAMATE DB20 due to the high pH of many additive formulations. Add AQUAMATE DB20 to the basin (or any other point of uniform mixing). Addition should be made via 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 THE CONTROL OF BACTERIA:

Add 0.00095-0.0095L of AQUAMATE DB20 of water in the system depending on the severity of the contamination.

#### INTERMITTENT OR SLUG METHOD

Initial Dose: When the system is noticeably fouled, add 0.0048-0.0095L AQUAMATE DB20/1000L of water in the system. Repeat until control is achieved. Subsequent Dose: When microbial control is evident, add 0.0024-0.0095L AQUAMATE DB20/1000L of water in the system every 4 days, or as needed to maintain control. Badly fouled systems must be clean before treatment is begun.

#### CONTINUOUS FEED METHOD

Initial Dose: When the system is noticeably fouled, add 0.0048 – 0.0095L of AQUAMATE DB20/1000L of water to the system. Subsequent Dose: Maintain this level by pumping a continuous feed of 0.00095-0.0048L of AQUAMATE DB20/1000L of water in the system lost by

blowdown. Badly fouled systems must be cleaned before treatment is begun.

#### FOR CONTROL OF FUNGI AND ALGAE

Add 0.029-0.095L of AQUAMATE DB20/1000L of water in the system depending on the severity of contamination.

#### INTERMITTENT OR SLUG METHOD

Initial Dose: When the system is noticeably fouled, add 0.048-0.095L of AQUAMATE DB20/1000L of water in the system. Repeat until control is achieved. Subsequent Dose: When microbial control is evident, add 0.029-0.095L AQUAMATE DB20/1000L of water to 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 0.048-0.095L of AQUAMATE DB20 /1000L of water in the system. Subsequent Dose: Maintain this treatment level by pumping a continuous feed of 0.029-0.095L of AQUAMATE DB20/1000L 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 AQUAMATE DB20 separately to the system. Do not mix with other additives, so as to avoid decomposition of AQUAMATE DB20 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 AQUAMATE DB20 at levels of 0.075-0.210 KG/tonne (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 AQUAMATE DB20 in the mass of fiber and water, such as the beaters, Jordon inlet, or discharge, broke chests, furnish chests, save-alls and white-water tanks. Heavily fouled systems must first be boiled out, then treated with 0.075-0.175 KG of AQUAMATE DB20/tonne (dry) of paper or pulp as necessary for control. Moderately fouled systems should be treated continuously with 0.175-0.210 KG of AQUAMATE DB20/tonne (dry) of paper or pulp until the slime accumulation is controlled. Subsequent rates can then be reduced to 0.075-0.175 KG of AQUAMATE DB20 tonne (dry) of paper on 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 0.075-0.175 KG of AQUAMATE DB20/tonne (dry) of paper or pulp, until the slime is controlled, then added on an intermittent basis to maintain control.

#### DIRECTIONS FOR TREATING ENHANCED OIL RECOVERY SYSTEMS (NON-MARINE USES)

NOTE: Add AQUAMATE DB20 separately to the system. Do not mix with other additives, so as to avoid decomposition of AQUAMATE DB20 due to the high pH of many additive formulations. Addition of AQUAMATE DB20 may be made at the free water knockouts, before or after injection pumps and injection well headers. For controlling slime-forming bacteria, sulfide-producing bacteria, yeasts, and fungi in oil field water, polymer or micellar floods, water-disposal systems, or other oil field water systems, add 1-80 ppm AQUAMATE DB20 (0.38-24.23 L of AQUAMATE DB20 per 2400 barrels of water) depending on the severity of contamination. Additions should be made with a metering pump either continuously or intermittently.

Continuous Feed Method: When the system is noticeably fouled, add 10-80 ppm AQUAMATE DB20 (3.03-24.23 L of AQUAMATE DB20 per 2400 barrels of water) continuously until the

desired degree of control is achieved. Subsequently, treat with 1-15 ppm AQUAMATE DB20 (0.38 – 4.54 L of AQUAMATE DB20 per 2400 barrels of water) continuously or as needed to maintain control.

Intermittent or Slug Method: When the system is noticeably fouled or to maintain control of the system, add 10-80 ppm AQUAMATE DB20 (3.03-24.23 L of AQUAMATE DB20 per 2400barrels of water) intermittently for 4-8 hours per day and from 1-4 times per week, or as needed depending on the severity of contamination.

NOTE: For control of bacteria, yeast, and fungi in aqueous solutions of biopolymer used in flooding operations, add15-80 ppm AQUAMATE DB20 (4.54 – 24.23 L of AQUAMATE DB20 per 2400 barrels of water). Additions of AQUAMATE DB20 should be made with a metering pump immediately after preparation of the aqueous biopolymer solution to prevent loss of viscosity.

**DIRECTIONS FOR TREATING METAL WORKING CUTTING FLUIDS CONTAINING WATER**  
AQUAMATE DB20 is effective in metal working fluid concentrates which have been diluted in water at ratios of 1:100 to 1:4. For controlling (or inhibiting ) the growth of bacteria, fungi, and yeasts that may deteriorate metal working fluids containing water, add this product to the fluid in the collection tank. Additions should be made with a metering pump.

Initial or Slug Dose: When the system is noticeably fouled, add AQUAMATE DB20 at the rate of 0.25 L (318 g) per 1000 L of metal working fluid in the system. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add AQUAMATE DB20 at the rate of 0.1 to 0.2 liters (127 to 254 grams) per 1000 liters of metal working fluid per day, or as needed to maintain control. Additions of AQUAMATE DB20 can be made continuously or intermittently. Slug the system as required,

**PRECAUTIONS:**

KEEP OUT OF REACH OF CHILDREN  
HAZARD TO HUMANS AND DOMESTIC ANIMALS  
DANGER  
CORROSIVE TO EYES AND SKIN

May be harmful or fatal if swallowed or inhaled. Do not get in eyes, on skin or on clothing. Do not inhale vapors or spray mist. Wear a long sleeved shirt, long pants, shoes plus socks, full-face protection and chemical-resistant gloves when handling. Wear a respirator if the area is not well ventilated and during cleaning, maintenance and repair activities.

Users should wash hands and face before eating, drinking, chewing gum, using tobacco or using the toilet.

Users should remove clothing immediately if pesticide comes in contact with skin through soaked clothing or spills. Then wash skin thoroughly and put on clean clothing . Wash contaminated clothing separate from other laundry prior to use.

Users should remove protective clothing immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**FIRST AID:**

**If in eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for further treatment advice.

**If swallowed:** Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

**If inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

Take the container, label, or product name and Pest Control Product Registration Number with you when seeing medical attention.

**TOXICOLOGICAL INFORMATION:**

Treat symptomatically.

**ENVIRONMENTAL HAZARDS:**

This product is toxic to fish and other aquatic organisms. It is not to be used in circumstances that would cause or allow it to enter lakes, streams, ponds, estuaries, oceans or other waters in contravention of federal or provincial regulatory requirements. The requirements of applicable laws should be determined before using the product. Do not discharge effluent containing this product into sewer systems without previously notifying the local sewage treatment plant authority.

**STORAGE:**

Do not contaminate water, food, or feed by storage or disposal.  
Store away from heat and keep container closed when not in use.

**DISPOSAL:**

1. Triple- or pressure-rinse the empty container. Add the rinsings to the treatment site.
2. Follow provincial instruction for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

**NOTICE TO USER:**

This pest control product is to be used only in accordance with the directions on the label. It is an offense under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.