18-JAN-2002

FENNOSAN R 20 V

DBNPA

A MICROBIOCIDAL BACTERICIDE, FUNGICIDE ALGICIDE AND SLIMICIDE . IN TREATING RECIRCULATING COOLING WATER IN INDUSTRIAL COOLING SYSTEMS AND FOR PAPER MILLS, NON-MARINE USES IN ENHANCED OIL RECOVER SYSTEMS, AND METAL-WORKING CUTTING FLUIDS CONTAINING WATER

GUARANTEE

2,2-Dibromo-3-nitrilopropionamide.....20%

COMMERCIAL

REGISTRATION NO. 27042 PEST CONTROL PRODUCTS ACT

KEEP OUT OF REACH OF CHILDREN

DANGER

POISON CORROSIVE

DANGER - CORROSIVE TO EYES AND SKIN

READ THE LABEL BEFORE USING

NET CONTENTS 300 KG

KEMIRA

Kemira Chemicals Canada Inc. 1380 County Road #2, P.O. Box 615 , Maitland,
Ontario K0E 1P0, CANADA
Phone: (800) 688-5992

DIRECTIONS FOR USE

DIRECTIONS FOR TREATING INDUSTRIAL RECIRCULATING COOLING WATER IN INDUSTRIAL COOLING

NOTE: Add FENNOSAN R 20 V separately to the system. Do not mix it with other additives, so as to avoid decomposition of

FENNOSAN R 20 V due to the high pH of many additive formulations. Add FENNOSAN R 20 V to the basin (or any other point of uniform mixing). Addition 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 0.00095-0.0095 L of FENNOSAN R 20 V/1000 L of water in the system depending on the severity of contamination.

INTERMITTENT OR SLUG METHOD

Initial dose: When the system is noticeable fouled, add 0.0048-0.0095 L FENNOSAN R 20 V/1000 L of water in the system. Repeat until control is achieved.
Subsequent dose: When microbial control is evident, add 0.0024-0.0095 L FENNOSAN R 20 V/1000 L 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 noticeable fouled, add 0.0048-0.0095 L of FENNOSAN R 20 V/1000 L of water in the system.
Subsequent dose: Maintain this level by pumping a continuous feed of 0.00095-0.0048 L of FENNOSAN R 20 V/1000 L 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 0.029-0.095 of FENNOSAN R 20 V/1000 L of water in the system, depending on the severity of contamination.

INTERMITTENT OR SLUG METHOD

Initial dose: When the system is noticeable fouled, add 0.048-0.095 L FENNOSAN R 20 V/1000 L of water in the system. Repeat until control is achieved.
Subsequent dose: When microbial control is evident, add 0.029-0.095 L of FENNOSAN R 20 V/1000 L 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 noticeable fouled, add 0.048-0.095 L FENNOSAN R 20 V/1000 L of water in the system. **Subsequent dose:** Maintain this treatment level by pumping a continuous feed of 0.029-0.095 L of FENNOSAN R 20 V/1000 L 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 FENNOSAN R 20 V separately to the system. Do not mix it with other additives so as to avoid decomposition of FENNOSAN R 20 V 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 FENNOSAN R 20 V 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 FENNOSAN R 20 V 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 0.075-0.175 KG of FENNOSAN R 20 V/tonne (dry) of paper or plus as necessary for control.

Moderately fouled systems should be treated continously with 0.175-0.210 KG of FENNOSAN R 20 V/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 FENNOSAN R 20 V/tonne (dry) of paper on continuous or intermittent bases as needed to control. Dislodged slime may cause breaks in the paper and a cleanup of the paper machine may be advisable. Sightly fouled systems should be treated continuously with 0.075-0.175 KG of FENNOSAN R 20 V/tonne (fry) 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 FENNOSAN R 20 V separately to the system. Do not mix it with other additives, so as to avoid decomposition of

FENNOSAN R 20 V due to the high pH of many additive formulations.Addition of FENNOSOSAN R 20 V may be made at the free water knockouts, before or after the injection pumps and infection well headers.

For controlling slime- forming bacteria, sulfide-producing bacteria, yeasts, and fungi in oil field water, polymer or micellar foods , water-disposal systems, or other oil field water systems, add 1-80 ppm FENNOSAN R 20V (0.38-24.23 L of FENNOSAN R 20 V 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 FENNOSAN R 20 V (3.03-24.23 L of FENNOSAN R 20 V of 2400 barrels of water) continuously until the desired degree of control is achieved. Subsequently, treat with 1-15 ppm FENNOSAN R 20 V (0.38-4.54 L of FENNOSAN R 20 V per 2400 barrels of water) continuously or as needed to maintain control.
Intermittent or Slug Method: When the system is noticeable fouled or to maintain control of the system, add 10-80 ppm FENNOSAN R 20 V per 2400 barrels 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 fooding operations, add 15-80 ppm FENNOSAN R 20 V (4.54-24.23 L of FENNOSAN R 20 V per 2400 barrels of water). Addition of FENNOSAN R 20 V 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

FENNOSAN R 20 V is effective in metal working fluid concentrate 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 FENNOSAN R 20 V 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 FENNOSAN R 20 V at the rate of 0.1 to 0.2 litres (127 to 254

grams) pe 1000 litres of metal working fluid per day, or as needed to maintain control. Additions of FENNOSAN R 20 V can be made continuously or intermittently. Slug the system as required.

PRECAUTIONS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
DANGER
CORROSIVE TO EYES AND SKIN
POTENTIAL SKIN SENSITIZER

May be harmful or fatal if swallowed or inhaled. Do not get in eyes, on skin or on clothing. Do not inhale vapours or spray mist. During mixing/application wear long-sleeve shirt, long pants, full face protection and chemical-resistant gloves. Wear a respirator if the area is not well ventilated and during cleaning, maintenance and repair activities. Wash face and hands before eating, drinking, smoking and using the toilet. Wash contaminated clothing before reuse.

ENVIRONMENTAL HAZARDS
This product is highly toxic to fish, freshwater and marine invertebrates, and algae. Apply this product only as specified on this label. Do not contaminate water by cleaning of equipment or disposal of wastes.
NOTE: Do not discharge treated water into estuaries, lakes, streams, ponds or public waters.

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

FIRST AID

If in eyes:	Flush eyes with plenty of water for at least 15 minutes and get medical attention at once.
If on skin:	Wash with soap and plenty of water. Wash contaminated clothing before reuse.
If inhaled:	Remove person to fresh air immediately. Get him quiet and warm; apply artificial respiration if necessary. Get medical attention at once.

If swallowed: Give large amounts of water to dilute the toxicant, if immediately available, demulcents like milk , vegetable oil or egg whites can be given. Do not induce vomiting as it is likely to cause considerable mucosal damage. Contact physician or poison control immediately.

NOTE: Take container, label or product name and Pest Control

Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION Dilution of an ingested corrosive is a safer first aid treatment than emesis.

WASH THOROUGHLY AFTER HANDLING

STORAGE: To maintain product quality store in a dark, cool dry, well-ventilated area, not above 30EC, rotate and use stock within three months. Store in well-closed original containers, away from energy sources, combustible organic materials and oxidizers. Do not contaminate water, food or feed by storage or disposal.

DISPOSAL:

1. Triple or pressure-rinse the empty container. Add the rinsing 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 the 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.
6. For SPILLS: When handling or dealing with spills, use impact- resistant goggles with side shields, or face shield; wear body-covering clothes, including impervious chemical- resistant gloves and boots; use a dust respirator if misting occurs. For small spills, recover free product. Cover wet spills with 10% sodium bicarbonate solution, water and then an inert 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; flood with 10% sodium bicarbonate solution and large volumes of water if necessary. DO NOT FLUSH INTO SURFACE STREAMS. INFORM THE PROVINCIAL REGULATORY AGENCY OR THE REGISTRANT.

NOTICE TO USER: This control product is to be used in accordance with the directions on this label. It is an offense under the Pest Control Products Act to use a control product under unsafe conditions.

NOTICE TO BUYER: Sellers guarantee shall be limited to the terms set out on the label and subject thereto, the buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the products on that condition.

1.20 KG, FENNOSAN R 20 V LIQUID per L
DO NOT SHIP WITH FOOD, FEEDS, DRUGS OR CLOTHING

165-009/Rev.0

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