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BETZ

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BETZ ER-10

ANTIMICROBIAL AGENT

INDUSTRIAL

DANGER

POISON

CORROSIVE

READ THE LABEL BEFORE USING

Registration No. 17568

Pest Products Control Act

Net Weight as Marked on Container

Contents: Liquid

Guarantee:

2,2-dibromo-3-nitrilopropionamide..... 20.0%

Betz Inc.
3026 Solandt
Kanata, Ontario

PRECAUTIONS: Causes severe burns of eyes. Eye contact may cause loss of vision. May burn the skin. May be harmful or fatal if swallowed. Do not get in eyes, on skin, or on clothing. Chemical Workers' Goggles must be worn when handling. Do not inhale vapor or fumes.

FIRST AID: In case of contact with skin, wash well with soap and water. In case of contact with eyes, flush eyes immediately with plenty of water for at least 15 minutes and get medical attention. If swallowed, induce vomiting immediately with plenty of water and sticking finger down the throat. Repeat until vomit is clear. Call a physician. Never give anything by mouth to an unconscious person. Wash thoroughly after handling. Remove and wash contaminated clothing before reuse.

ECOLOGICAL: This pesticide is toxic to fish and wildlife. Do not apply in marine and/or estuarine oil fields. Do not discharge into lakes, streams, ponds or public waters. Do not contaminate water by cleaning of container and equipment or disposal of wastes. Apply this pesticide only as specified on the label. Do not reuse empty container. Send to drum reconditioner, or destroy by perforating or crushing and bury in a safe place.

DIRECTIONS FOR USE

NOTE: Add ER-10 separately to the system. DO NOT mix it with other additives to avoid decomposition of ER-10 due to the high pH of many additives formulations.

RECIRCULATING COOLING WATER SYSTEMS

Add ER-10 to the basin (or any other point of uniform mixing). Addition should be made continuously or intermittently, depending on the severity of contamination when treatment is begun, and the retention time in the system.

Optimum performance with this product is attained by continuous or intermittent treatment. If "shock" treatment is used, blowdown should be discontinued for 24 to 48.

FOR CONTROL OF BACTERIA

Add 0.0012 to 0.012 kg(1-10ml)ER-10 per 1000 litres of water in the system, depending on the severity of contamination.

INTERMITTENT OR SLUG METHOD

INITIAL DOSE: When the system is noticeably fouled, add 0.006 to 0.012 kg(5-10ml)ER-10 per 1000 litres of water in the system. Repeat until control is achieved.

SUBSEQUENT DOSE: When microbial control is evident, add 0.003 to 0.012 kg(3-10ml)ER-10 per 1000 litres 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 0.006 to 0.012 kg(5-10 ml)ER-10 per 1000 litres of water in the system.

SUBSEQUENT DOSE: Maintain this level by pumping a continuous feed of 0.0006 to 0.006 kg (0.5-5ml)ER-10 per 1000 litres of water in the system per day.
BADLY FOULED SYSTEMS must be cleaned before treatment is begun.

FOR CONTROL OF ALGAE

Add 0.036 to 0.12 kg(30-95 ml)ER-10 per litres of water in the system, depending on the severity of contamination.

INTERMITTENT OR SLUG METHOD

INITIAL DOSE: When the system is noticeably fouled, add 0.06 to 0.12 kg(50-95 ml)ER-10 per 1000 litres of water in the system. Repeat until control is achieved.

SUBSEQUENT DOSE: When algal control is evident, add 0.036 to 0.12 kg(30-95ml)ER-10 PER 1000 litres 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 0.06 to 0.12 kg(50-95 ml)ER-10 per 1000 litres of water in the system per day. BADLY FOULED SYSTEMS must be cleaned before treatment is begun.

METAL-WORKING CUTTING FLUIDS CONTAINING WATER

This product 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 ER-10 per 1000 litres of metal-working fluid per day, or as needed to maintain control. Additions can be made either continuously or intermittently. Slug the system as required.

ENHANCED OIL RECOVERY SYSTEMS

For controlling slime-forming bacteria, sulfide-producing bacteria, yeasts and fungi in oil field water, polymer or mycellar floods, water disposal systems, or other oil field water systems, add 1 to 80 ppm ER-10(1 to 80 litres to 1000 cubic meters of water), depending on the severity of contamination. Additions should be made with a metering pump either continuously or intermittently.

INTERMITTENT OR SLUG METHOD

When the system is noticeably fouled, or to maintain control of the system, add 10 to 80 ppm ER-10(10 to 80 litres to 1000 cubic meters of water) intermittently for 4 to 8 hours per day, and from 1 to 4 times per week or as needed depending on the severity

of contamination.

Addition of ER-10 may be made at the free water knockouts before or after the injection pumps and injection well headers.

NOTE: For control of bacteria, yeast and fungi in aqueous solutions of biopolymer used in flooding operations, add 15 to 80 ppm ER-10(15 to 80 litres to 1000 cubic metres of water).

Additions of ER-10 should be made with a metering pump IMMEDIATELY after preparation of the aqueous biopolymer solution to prevent loss of viscosity.

CONTINUOUS FEED METHOD

When the system is noticeably fouled, add 10 to 80 ppm ER-10 (1 to 80 litres to 1000 cubic meters of water) continuously until the desired degree control is achieved. Subsequently, treat with 1 to 15 ppm ER-10(1 to 15 litres to 1000 cubic meters of water) continuously or as needed to maintain control.

FOR INDUSTRIAL USE ONLY. Technical advice regarding specific site problems available from BETZ.

KEEP CONTAINER COVERED-PROTECT FROM FREEZING
DO NOT STORE AT ELEVATED TEMPERATURES

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