

88.05.10

BETZ
DE-254C
ANTIMICROBIAL AGENT INDUSTRIAL

DANGER

POISON

CORROSIVE

READ THE LABEL BEFORE USE

GUARANTEE

CONTENTS: Liquid

2,2-dibromo-3-nitrilopropionamide.....10.0%

REGISTRATION NO. 19766
PEST CONTROL PRODUCTS ACT

NET WEIGHT AS MARKED ON CONTAINER

Betz Inc.
3026 Solandt
Kanata, Ontario
K2K 2A5

Use caution when opening drum vat. Keep package tightly closed when not in use. To maintain product quality, store at temperatures below 60'C.

PRECAUTIONS: Keep out of reach of children. Corrosive to eyes. Causes severe burns of eyes. Eye contact may cause loss of vision. May be harmful or fatal if swallowed. Do not get into eyes, on skin or on clothing. Do not ship or store with food, feed or clothing.

Chemical Worker's Goggles must be worn when handling. Do not inhale vapor.

FIRST AID: In case of contact with skin, wash well with soap and water.

In case of contact with eyes, flush eyes with plenty of water for at least 15 minutes and get medical attention.

If swallowed, induce vomiting immediately by giving two glasses of water and sticking finger down the throat. Repeat until vomit is clear. Call a physician. Never giving 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 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 this label.

DISPOSAL:

1. Do not reuse empty container.
2. Rinse the emptied container thoroughly and add the rinsings to treatment site.
3. Follow provincial instructions for any required additional cleaning of the container prior to its disposal or reconditioning.
4. Dispose of the container in accordance with provincial requirements.
5. For information on the disposal of unused, unwanted product and the cleanup of spills contact the regional office of Conservation and Protection, Environment Canada.
6. For small spills. Recover free liquid. Soak up residue with solids absorbent. DO NOT FLUSH INTO SURFACE STREAMS. INFORM ENVIRONMENT CANADA AS IN #4.

DIRECTIONS FOR USE

NOTE: Add DE-254C separately to the system. Do not mix with other additives in order to avoid decomposition of DE-254 due to the high pH of many additive formulations. Additions should be made with a metering pump.

RECIRCULATING COOLING WATER SYSTEMS

Betz DE 254C aids in the control of bacterial and algal slimes in evaporative condensers, heat exchange water systems, commercial and industrial cooling towers, influent systems such as flow through, infilco units and filters and industrial water scrubbing systems. This product may be added to the system either continuously or intermittently or as needed. The frequency of feeding and duration of the treatment will depend upon the severity of the problem and retention time of the system.

BADLY FOULED SYSTEMS must be cleaned before treatment is begun.

FOR CONTROL OF BACTERIA

INTERMITTENT OR SLUG METHOD

INITIAL DOSE: When the system is noticeably fouled, add 0.12 to 0.24 kg (100 to 200 mL) to 10,000 litres or 12 to 24 parts per million of water in the system. Repeat until control is achieved. SUBSEQUENT DOSE: When microbial control is evident, add 0.06 to 0.24 kg (60 to 200 mL) to 10,000 litres or 6 to 24 parts per million of water in the system every 4 days or as needed to maintain control.

CONTINUOUS FEED METHOD

INITIAL DOSE: When the system is noticeably fouled, add 0.24 to 0.48 kg (200 to 400 mL) to 10,000 litres or 24 to 48 parts per million of water in the system. SUBSEQUENT DOSE: Continuously feed to maintain a dosage of 0.024 to 0.24kg(20 to 200 ml) to 10,000 litres or 2.4 to 24 parts per million of water in the system per day.

FOR CONTROL OF ALGAE

INTERMITTENT OR SLUG METHOD

INITIAL DOSE: When the system is noticeable fouled, add 2.4 to 4.8 kg (2 to 3.8 L) to 10,000 litres or 240 to 480 parts per million of water in the system. Repeat until control is achieved. SUBSEQUENT DOSE: Continuously feed to maintain a dosage of 1.44 to 4.8 kg (1.2 to 3.8L) to 10,000 litres or 144 to 480 parts per million daily or as needed to maintain control.

CONTINUOUS FEED METHOD

INITIAL DOSE: When the system is noticeably fouled, add 2.4 to 4.8 kg(2 to 3.8L) to 10,000 litres or 240 to 480 parts per million of water in the system. Repeat until control is achieved.

SUBSEQUENT DOSE: Continuously feed to maintain a dosage of 1.44 to 4.8 kg(1.2 to 3.8L) to 10,000 litres or 144 to 480 parts per million of water in the system.

METAL-WORKING CUTTING FLUIDS CONTAINING WATER

This product is effective in metal-working fluid concentrates which have been diluted in water at ratios of 1:100-1:4.

For controlling (or inhibiting) the growth of bacteria, fungi and yeasts that may deteriorate metal-working fluids containing water, add DE-254C to the fluid in the collection tank. Additions should be made with a metering pump.

INITIAL OR SLUG METHOD: When the system is noticeably fouled, add 6.4 kg (5 L) of DE-254C per 10,000 litres of metal-working fluid to the system. Repeat until control is achieved.

SUBSEQUENT DOSE: When a microbial control is evident, add 2.6 to 5.2 kg (2-4 L) of DE-254C per 10,000 litres of metal-working fluid per day or as needed to maintain control. Addition can be made 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 or mycellar floods, water disposal systems or other oil field water systems, add 2 to 160 ppm by weight of DE-254C or 2 to 120 mL DE-254C per cubic meter 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 20 to 160 ppm DE-254C by weight (20 to 120 mL per cubic meter of water) continuously or until the desired degree of control is achieved. Subsequently, treat with 2 to 30 ppm DE-254C (2 to 20 mL per cubic meter 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 20 to 160 ppm DE-254C (20 to 120 mL per cubic meter of water) intermittently for 4-8 hours per day and from 1 to 4 times per week or as needed depending on the severity of contamination.

Addition of DE-254C may be made at the free water know outs, before or after the injection pumps and injection well headers.

NOTE: For control of bacteria, yeast and fungi in aqueous solutions of bipolymer used in flooding operations, add 30 to 160 ppm weight DE-254C (20 to 120 mL per cubic meter of water. Additions of DE-254C should be made with a metering pump IMMEDIATELY after preparation of the aqueous bipolymer solution to prevent loss of viscosity.

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

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

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

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