



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

JUL 19 1984

OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

Betz Laboratories, Inc.
4636 Somerton Road
Trevose, PA 19047

Gentlemen:

Subject: Slimicide 508
EPA Registration No. 3876-95
Betz ER-10
EPA Registration No. 48525-1
Betz Slimicide C-62
EPA Registration No. 3876-139
Slime-Trol RX 508
EPA Registration No. 45017-32
Betz Entec 345
EPA Registration No. 34571-10
Submission of June 19, 1984

The labeling referred to above, submitted in connection with
registration under the Federal Insecticide, Fungicide and Rodenticide Act,
as amended, is acceptable. A stamped copy is enclosed for your records.

Sincerely yours,

[Signature]
for A. E. Castillo

Product Manager (32)
Disinfectants Branch
Registration Division (TS-767C)

Enclosure

1/9/84

BETZ
[LOGO]ENERGY
CHEMICALS, INC.

ER-10

(FIRST PANEL)

PRECAUTIONARY STATEMENTS[14b f]

HAZARDS TO HUMANS AND[12b f]
DOMESTIC ANIMALS[12b f]

Do not take internally. Do not get into
eyes, on skin, or on clothing. Chemical
workers' goggles must be worn when han-
dling. Do not inhale vapor or mist. Use
with adequate ventilation. Immediately
remove contaminated clothing and wash
before reuse. Wash thoroughly after han-
dling.

ENVIRONMENTAL HAZARDS[14b f]

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 water unless in
accordance with a NPDES permit. For guid-
ance contact your Regional Office of the
EPA. Do not contaminate water by cleaning
of container and equipment or disposal of
wastes. Apply this pesticide only as speci-
fied on this label.

DIRECTIONS FOR USE[14b f]

It is a violation of Federal law to use this
product in a manner inconsistent with its
labeling.

NOTE: Add BETZ 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 additive formulations.

RECIRCULATING COOLING WATER SYSTEMS[12b f]

BETZ ER-10 aids in the control of bacterial,
fungal and algal slimes in evaporative con-
densers, heat exchange water systems, com-
mercial and industrial cooling towers, in-
fluent systems such as flow-through filters

BEST AVAILABLE COPY

ACCEPTED
with COMMENTS
in EPA Letter Dated:

JUN 16 1984

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, this pesticide
registered under EPA Reg. No.

48525-1

and lagoons, industrial water scrubbing systems and brewery pasteurizers.

Add ER-10 to the basin (or any other point of uniform mixing). Addition of ER-10 should be made continuously or intermittently, depending upon 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, flow-down should be discontinued for 24 to 48 hours.

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ER-10 Energy Chemicals, Inc. [Cont'd bottom 2nd panel.]

Business Phone: 805-644-5991

(SECOND PANEL)

Contents: LIQUID

Active Ingredient:

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

Inert Ingredients*:.....80.0%

Total.....100.0%

*Inert ingredients include solubilizing and dispersing agents.

EPA Reg. No. 48525-1

WEIGHT PER GALLON OF PRODUCT
10.6 POUNDS (60F)

NET WEIGHT OR VOLUME
AS MARKED ON CONTAINER

KEEP OUT OF REACH OF CHILDREN[12bf]

DANGER[18bf]

STATEMENT OF PRACTICAL TREATMENT[14bf]

In case of contact with skin, wash immediately with plenty of soap and water. Immediately contact physician.

In case of contact with eyes, flush promptly and thoroughly with plenty of clear water for

ACCEPTED
with COMMENTS
to EPA Letter Dated:

JUN 16 1984

Under the Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.

48525-1

at least 15 minutes. Immediately contact physician.

In case of ingestion, induce vomiting immediately by giving two glasses of water and sticking finger down the throat. Repeat until vomit is clear. Immediately contact physician. Never give anything by mouth to an unconscious person.

A Material Safety Data Sheet containing more detailed information relative to this product is available upon request.

See label for additional first aid instructions.

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FOR CONTROL OF BACTERIA

Add ER-10 at the rate of 0.005 to 0.1 lb (0.0024 to 0.0095 gal) per 1000 gals of water in the system, depending upon the severity of contamination.

INTERMITTENT OR SLUG METHOD

INITIAL DOSE: When the system is noticeably fouled, add ER-10 at the rate of 0.05 to 0.1 lb (0.0048 to 0.0095 gal) per 1000 gals of water in the system. Repeat until control is achieved.

SUBSEQUENT DOSE: When microbial control is evident, add ER-10 at the rate of 0.025 to 0.1 lb (0.0024 to 0.0095 gal) per 1000 gals 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 ER-10 at the rate of 0.05 to 0.1 lb (0.0048 to 0.0095 gal) per 1000 gals of water in the system.

SUBSEQUENT DOSE: Maintain this level by feeding a continuous dose of ER-10 at the rate of 0.005 to 0.05 lb (0.00048 to 0.0043 gal) per 1000 gals of blowdown (or water loss) from the system.

FOR CONTROL OF FUNGI AND ALGAE

Add ER-10 at the rate of 0.3 to 1.0 lb (0.029 to 0.095 gal) per 1000 gals of water in the system, depending upon the severity of contamination.

INTERMITTENT OR SLUG METHOD

INITIAL DOSE: When the system is noticeably fouled, add ER-10 at the rate of 0.5 to 1.0 lb (0.048 to 0.095 gal) per 1000 gals of water in the system. Repeat until control is achieved.

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SUBSEQUENT DOSE: When algal control is evident, add ER-10 at the rate of 0.3 to 1.0 lb (0.029 to 0.095 gal) per 1000 gals of water in the system daily, or as needed to maintain control.

CONTINUOUS FEED METHOD

INITIAL DOSE: When the system is noticeably fouled, add ER-10 at the rate of 0.5 to 1.0 lb (0.48 to 0.095 gal) per 1000 gals of water in the system.

SUBSEQUENT DOSE: Maintain this treatment level by feeding a continuous rate of ER-10 at the rate of 0.3 to 1.0 lb (0.029 to 0.095 gal) per 1000 gals of water in the system.

ER-10 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 to the fluid in the collection tank. Additions of ER-10 should be made with a metering pump.

INITIAL OR SLUG DOSE: When the system is just noticeably fouled, add ER-10 at the rate of 2.65 lbs (0.25 gal) per 1000 gals of metal-working fluid in the system. Repeat until control is achieved.

SUBSEQUENT DOSE: When microbial control is evident, add ER-10 at the rate of 1.06 to 2.12 lbs (0.1 gal to 0.2 gal) per 1000 gals of metal-working fluid per day, or as needed to maintain control. Additions of ER-10 can be made either continuously or intermittently. Slug the system as required.

ENHANCED OIL RECOVERY SYSTEMS[12bf]

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 ER-10 at the rate of 1.06 to 67.8 lbs (0.1 to 6.4 gals or 1 to 80 ppm) per 2400 barrels of water, depending upon the severity of contamination. Addition of ER-10 should be made with a metering pump either continuously or intermittently.

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

INTERMITTENT OR SLUG METHOD

When the system is noticeably fouled, or to maintain

control of the system, add ER-10 at the rate of 8.48 to 67.8 lbs (0.8 to 6.4 gals or 10 to 80 ppm) per 2400 barrels of water intermittently for 4 to 8 hours per day, and from 1 to 4 times per week or as needed depending upon the severity of contamination.

CONTINUOUS FEED METHOD

When the system is noticeably fouled, add ER-10 at the rate of 8.48 to 67.8 lbs (0.8 to 6.4 gals or 10 to 80 ppm) per 2400 barrels of water continuously until the desired degree of control is achieved. Subsequently treat with ER-10 at the rate of 1.0 to 12.72 lbs (0.1 to 1.2 gals or 1.0 to 15 ppm) per 2400 barrels of water continuously or as needed to maintain control.

NOTE: For control of bacteria, yeast and fungi in aqueous solutions or biopolymer used in flooding operations, add ER-10 at the rate of 12.72 to 67.8 lbs (1.2 to 6.4 gals or 15 to 80 ppm) per 2400 barrels of water. Addition of ER-10 should be made with a metering pump IMMEDIATELY after preparation of the aqueous biopolymer solution to prevent loss of viscosity.

STORAGE AND DISPOSAL[12b f]

STORAGE: Keep container tightly closed. Protect from freezing. Store in a dry place. Do not store at elevated temperatures.

DISPOSAL: Do not contaminate water, food or feed by storage or disposal.

Pesticide wastes are acutely hazardous and/or toxic. 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.

Metal and Plastic Containers[b f]: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incinerate or burn, if allowed by state and local authorities. If burned, stay out of smoke.

Fiber Drums with Liners[b f]: Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of liner and drum in a sanitary landfill or incinerate if allowed by state and local authorities. Do not reuse empty drum or liner.

FOR INDUSTRIAL USE ONLY. Technical advice regarding speci-

fic site problems is available from BETZ Energy Chemicals,
Inc.

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