

US ENVIRONMENTAL PROTECTION AGENCY  
OFFICE OF PESTICIDES PROGRAMS  
REGISTRATION DIVISION (75-767)  
WASHINGTON, DC 20460

EPA REGISTRATION NO.  
59894-5

DATE OF ISSUANCE

DEC 10 1991

TERM OF ISSUANCE

NOTICE OF PESTICIDE: ☒ REGISTRATION  
☐ REREGISTRATION  
(Under the Federal Insecticide, Fungicide,  
and Rodenticide Act, as amended)

NAME OF PESTICIDE PRODUCT

Kwikkill

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

M&S Research, Inc.  
11500 West Hill Drive  
Rockville, MD 20852

NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A) provided that you:

1. Submit/cite all data or other material required for registration/reregistration of your product under FIFRA section 3(c)(5) or FIFRA section 4 when the Agency requires all registrants of similar products to submit such data.

2. Make the labeling changes listed below before you release the product for shipment:

- a. Add the phrase "EPA Registration No. 59894-5."
- b. Delete: "buried in safe place" (2 locations).
- c. Refer to PR Notice 83-3 for appropriate Pesticide Disposal statements.
- d. Refer to PR Notice 83-3 for appropriate Container Disposal statements.

☒ ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

DATE

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.



John H. Lee

Product Manager (31)

Antimicrobial Program Branch

Registration Division (H7505C)

Enclosures

**KWIKKILL**

**QUATERNARY MICROBIOCIDAL CONCENTRATE**

MICROBIOCIDAL FOR USE IN CONTROLLING SULFATE-REDUCING BACTERIA IN OIL WELL DRILLING AND OIL FIELD PROCESSING APPLICATIONS. FOR WATER TREATMENT OF BUILDING AND INDUSTRIAL COOLING TOWERS AND OIL FIELD WATER FLOODS OR SALT WATER DISPOSAL SYSTEMS

**ACTIVE INGREDIENTS:**

N-alkyl (60% C14, 30% C16, 5% C12, 5% C18)	
Dimethyl benzyl ammonium chloride	12.50%
N-alkyl (68% C12, 32% C14) Dimethyl	
ethylbenzyl ammonium chloride	12.50%
INERT INGREDIENTS.....	75.00%
TOTAL.....	100.00%

**KEEP OUT OF REACH OF CHILDREN**

**DANGER**

**STATEMENT OF PRACTICAL TREATMENT**

In case of CONTACT, immediately flush eyes or skin with plenty of water for at least 10 minutes. For eyes, call a physician. Remove and wash contaminated clothing before reuse.

If SWALLOWED, drink promptly large quantities of water. Avoid alcohol. Call a physician immediately.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

**SEE LEFT PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS**

**NET CONTENTS: 1 GALLON**

EPA Reg. No.: 59894-

EPA EST. # 36213-MD-02

U.S. PATENT NO. PENDING 243088

M & S RESEARCH  
11500 W. HILL DRIVE  
ROCKVILLE, MD 20852

DEC 21 1981

## PRECAUTIONARY STATEMENTS

**DANGER**  
**HAZARDS TO HUMAN AND DOMESTIC ANIMALS**  
**KEEP OUT OF REACH OF CHILDREN**

Corrosive. Causes severe eye and skin damage. Avoid breathing vapors. Do not get in eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves when handling. Harmful or fatal if swallowed. Avoid contamination of food.

## ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Do not apply in marine and / or estuarine oil fields. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or public waters unless this product is specifically identified and addressed in an NPDES permit. Do not discharge effluent containing this product to sewer systems without previously notifying the sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

## DIRECTIONS FOR USE

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

To control algae and bacterial slimes, sulfur reducing bacteria use KWIKKILL as directed. The frequency of addition of microbiocide needed depends on many factors. To optimize your use of KWIKKILL use the following procedures.

Recirculating Cooling Towers:

1. Initially use 12 to 16 fluid ounces per 1000 gallons of water to be treated (20-30 ppm active quaternary). Repeat the initial dose every seven days or increase the frequency, if needed.
  2. When the above treatment is successful, use 9-12 fluid ounces per 1000 gallons of water to maximize efficiency. Repeat weekly as needed.
- Cooling tower waters that are inherently low in algae growth and bacteria count may be adequately controlled by the lower range of these dosages. Slug feed every seven days.

Oil Field Water Flood or Salt Water Disposal Systems:

1. For control of slime forming and sulfate reducing bacteria in oil field water flood or salt water disposal systems, add 20 - 30 ppm KWIKKILL (3 to 4 gallons per 1000 barrels of water) continuously. Levels for effective control will vary depending on conditions at the site.
2. For intermittent use, dose at a rate of 4 to 6 gallons KWIKKILL per 1000 barrels of water for four to eight hours per day, one to four times per week as needed for control to maintain control.
3. The weekly addition of 2 gallons of KWIKKILL to each 1000 barrels (50 ppm KWIKKILL) of total volume each week is recommended to maintain microbial control.

Add KWIKKILL directly from the drum with the proper type of metering equipment.

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Drilling Fluids:

1. Calculate the total volume of the drilling mud system. Using this volume, calculate the number of gallons of microbiocide needed to produce a concentration of approximately 2000 ppm KWIKKILL. For example, 85 gallons of KWIKKILL per each 1000 barrels of total volume will produce this dilution.
2. While the system is circulating, add the microbiocide in a this stream.
3. As the depth increases (increasing the total volume of the system) add additional KWIKKILL to maintain the proper concentration.

Workover Fluids:

1. Calculate the total volume of the workover fluid system. Using this volume, calculate the number of gallons of KWIKKILL needed to produce a concentration of approximately 2000 ppm KWIKKILL. For example, 85 gallons of KWIKKILL per each 1000 barrels of total volume will produce this dilution.
2. Add the KWIKKILL. Circulate the workover fluid system until the fluid returns clear. Shut system down and idle for several hours.
3. Remove the workover fluid. The well should be ready for productive use.

Oil Well Water Floods:

1. Calculate the total volume of the water flood system. Using this volume, calculate the number of gallons of microbiocide needed to produce a concentration of approximately 150 ppm of KWIKKILL. For example, 6.3 gallons of microbiocide per each 1000 barrels of total volume will produce this dilution.
2. Add the microbiocide as a slug or intermittently.
3. The addition of 50 ppm KWIKKILL each week is recommended to maintain bacterial control. This may be accomplished by adding 2 gallons of microbiocide to each 1000 barrels of total volume.

## STORAGE AND DISPOSAL

1. PROHIBITIONS - do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.
2. PESTICIDE DISPOSAL - Pesticide, spray mixture, or rinsate that cannot be used or chemically processed should be disposed of in a landfill approved for pesticides or buried in a safe place away from water supplies.
3. CONTAINER DISPOSAL - (a) Reseal container and offer for reconditioning, or (b) Triple rinse (or equivalent) and offer for recycling, reconditioning or disposal in approved landfill, or bury in a safe place.
4. GENERAL - Consult Federal, State or local disposal authorities for approved alternative procedures.

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LEFT PANEL

REVISED 10-27-91

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KEEP OUT OF REACH OF CHILDREN

Corrosive. Causes severe eye and skin damage. Avoid breathing vapors. Do not get in eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves when handling. Harmful or fatal if swallowed. Avoid contamination of food. Wash thoroughly with soap and water after handling.

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Enhanced Oil Recovery: Inject KWIKKILL directly from the drum to control bacteria following injection of miscible solvent, oil displacement chemicals, or carbon dioxide. Dosage may be 20 to 100 ppm. The lower concentration for continuous treatment, the higher for periodic batch.

For repressuring depleted oil or gas zones continuous injection of KWIKKILL at 20 to 60 ppm into fresh or salt water should be adequate.

For preserving drilling fluids, work-over fluids or water based packer fluids, 100 to 500 ppm of KWIKKILL will be adequate.

For batch treating the Annulus of Producing oil wells 1 to 5 gallons of KWIK-KILL can be flushed down the annulus weekly with producing fluids.

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