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U.S. ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF PESTICIDES PROGRAMS
REGISTRATION DIVISION (TS-767)
WASHINGTON, DC 20460

EPA REGISTRATION
46622-4

DATE OF ISSUANCE
JUN 17 1987

TERM OF ISSUANCE

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

NAME OF PESTICIDE PRODUCT
MICRO-BIocide, B-104

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Reef Chemical Company, Inc.
P.O. Box 529
Snyder, TX 79549

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 required for registration/reregistration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Add the phrase "EPA Registration No. 46622-4" to your label before you release the product for shipment.
3. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

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
John H. Lee
Product Manager (31)
Disinfectants Branch
Registration Division (TS-767C)

Enclosures

ATTACHMENT IS APPLICABLE

BEST AVAILABLE COPY

SIGNATURE OF APPROVING OFFICIAL

DATE

BEST AVAILABLE COPY

MICRO-BIOCIDES, B-104

ACCEPTED
with COMMENTS
In EPA Letter Dated:

JUN 17 1987

INDUSTRIAL MICROBIOCIDES

ACTIVE INGREDIENT:

2-(Thiopyranomethylthio)benzothiazole

INERT INGREDIENTS (Contains Petroleum Distillates)

This product weighs 7.84 pounds per gallon.

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. 95%

46622-4

**KEEP OUT OF REACH OF CHILDREN
DANGER**

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER: Corrosive. Causes irreversible eye damage. Causes skin damage. This product may cause allergic skin reactions. 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.

FIRST AID: If in eyes, flush with plenty of water. Get medical attention. If on skin, wash with plenty of soap and water. Get medical attention. If swallowed, drink promptly a large quantity of milk, egg whites, gelatin solution or, if these are not available, drink large quantities of water. Avoid alcohol. Get medical attention.

Note to physician: Probable mucosal damage may contraindicate gastric lavage.

ENVIRONMENTAL HAZARDS: This pesticide is toxic to fish. Do not use in offshore or estuarine drilling operations. Do not discharge into lakes, streams, ponds, or public waters unless in accordance with a NPDES Permit. For guidance, contact the regional office of the Environmental Protection Agency.

PHYSICAL AND CHEMICAL HAZARDS: Do not use or store near heat or open flame.

STORAGE & DISPOSAL

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

STORAGE: Do not expose to extreme temperatures. Do not stack more than five drums high. Drums should be opened in well-ventilated areas. Leaking or damaged drums should be placed in overpack drums for disposal. Spills should be absorbed in sawdust or sand and disposed of in a sanitary landfill. Keep container closed when not in use.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or dilute 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 your EPA Regional Office for guidance.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

DIRECTIONS FOR USE

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN WITH ITS LABELING. Technical assistance in applying MICRO-BIOCIDES microorganism control as described in the following is available upon request if a problem is provided.

COOLING TOWERS: MICRO-BIOCIDES, B-104 is used to control wood against soft or surface rot and internal or dry rot. It is applied by spraying surfaces containing 3.0 to 4.2% MICRO-BIOCIDES, B-104. The amount applied should provide 3.6 to 4.8 lb MICRO-BIOCIDES per 1000 ft² of wood surface. Soft or surface rot can also be inhibited by applying MICRO-BIOCIDES, B-104 to the recirculating cooling water. The dosage should provide 7.5 lb of MICRO-BIOCIDES per 1000 gal water and the bleedoff should be stopped for 4 to 6 hr after treatment. Repeat every four months.

COOLING WATER: MICRO-BIOCIDES, B-104 is used to control algae and fungi in industrial recirculating cooling water systems. Before treatment, the system should be cleaned thoroughly to remove old algal growth, microbicides, and sludge. The system should then be drained, flushed, refilled with water, and treated with 1.2 to 7.2 fl oz MICRO-BIOCIDES, B-104 per 1000 gal water in the system. The frequency of microbial fouling should be made every 1 to 5 days, depending on the severity of microbiological fouling.

DRILLING FLUIDS: To inhibit bacterial and fungal degradation of the fluid in the casing of wells, MICRO-BIOCIDES, B-104 is incorporated in concentrations of 0.3 to 1.6% based on the total wet weight of the fluid.

PETROLEUM SECONDARY RECOVERY: MICRO-BIOCIDES, B-104 is used to control sulfate-reducing bacteria, slime-forming bacteria and fungi in micellar floods, water-disposal systems, and other oil-field water systems. Add 3.6 to 22.2 fl oz MICRO-BIOCIDES, B-104 per 1000 gal of water made continuously or intermittently by means of a metering pump at the after injection pumps and injection well headers. Continuous Feed Method: If the system is fouled, add 3.6 to 22.2 fl oz MICRO-BIOCIDES, B-104 per 1000 gal of water continuously until desired degree of control is achieved. Then treat with 3.6 to 22.2 fl oz MICRO-BIOCIDES, B-104 per 1000 gal of water continuously. Intermittent or Slug Method: When system is noticeably fouled, add 3.6 to 22.2 fl oz MICRO-BIOCIDES, B-104 per 1000 gal of water 4 times per week, or as needed to maintain control.

CUTTING FLUIDS: MICRO-BIOCIDES, B-104 is used to control the degradation of water-based and water-soluble or emulsifiable cutting fluids in metalworking operations. It should be added to the cutting fluid at a rate of 3.6 to 22.2 fl oz MICRO-BIOCIDES, B-104 (weight/weight) per million MICRO-BIOCIDES, B-104. MICRO-BIOCIDES, B-104 can be added after dilution or concentration. To prevent fungal growth on the inside walls of the diluted metalworking fluid, concentrations of MICRO-BIOCIDES, B-104 are recommended that MICRO-BIOCIDES, B-104 be added to the cutting fluid prepared to provide a concentration of 500 to 7500 parts per million.

REFINED OILS: MICRO-BIOCIDES, B-104 is an oil-soluble microbicide that controls bacteria and fungi that cause the degradation of refined fuel oils during storage. Add 3.6 to 22.2 fl oz MICRO-BIOCIDES, B-104 per 1000 gal of oil. Add to the oil as it is being transferred from the shipping container to the storage container, or where mixing occurs or continuously to the suction side of the transfer pump.

Manufactured by:
REEF CHEMICAL COMPANY, INC.

P.O. BOX 529

SNYDER, TX 79549

EPA REG. NO.

EPA EST. NO.

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