



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Antimicrobials Division (7510C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg. Number:

3377-73

Date of Issuance:

Jan. 18, 2001

NOTICE OF PESTICIDE:

☒ Registration
☐ Reregistration

(under FIFRA, as amended)

Term of Issuance: Conditional

Name of Pesticide Product:

Sanibrom 43

Name and Address of Registrant (include ZIP Code):

Albemarle Corporation
451 Florida Street
Baton Rouge, LA. 70801

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Antimicrobials Division prior to the use of the label in commerce. In any correspondence on this product always refer to the above 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. Registration is in no way to be construed as an endorsement or recommendation of this product by the 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 sec. 3(c)(7)(A) provided you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Revise the EPA File symbol 3377-TG to EPA Registration Number 3377-73²
3. Submit two copies of the revised final printed label for our records.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 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.

Signature of Approving Official:

Robert S. Brennis
Product Manager 32

Date:

JAN 18 2001

SANIBROM 43 BIOCID

FOR USE AS A SANITIZER, BACTERICIDE,
SLIMICIDE, ALGICIDE , AND MOLLUSK CONTROL AGENT IN RECIRCULATING COOLING WATER
SYSTEMS, BREWERY PASTEURIZING SYSTEMS, AIR WASHERS, ONCE THROUGH COOLING
WATER AND WASTEWATER TREATMENT SYSTEMS, AND PULP AND PAPER MILLS.
CONTROLS BIOFILM DEPOSITS FROM PUMPS, PIPEWORK, HEAT
EXCHANGERS, AND FILTERS ASSOCIATED WITH INDUSTRIAL WATER
TREATMENT SYSTEMS.

ACTIVE INGREDIENT:

Sodium bromide	43.0%
INERT INGREDIENT:	57.0%
TOTAL	100.0%

KEEP OUT OF REACH OF CHILDREN CAUTION


Prolonged eyes and skin contact may cause severe irritation.

FIRST AID

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-25 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF ON SKIN: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

 **ALBEMARLE**[®]
CORPORATION
451 Florida Street
Baton Rouge, LA 70801

In case of an emergency endangering life or property involving this product,
call collect (225) 344-7147.

EPA Reg. No. 3377-
EPA Est. 3377-AR-1, 42403-TX-1

Net Contents.....

ACCEPTED

JAN 18 2001

3377-73

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

CAUTION

Harmful if absorbed through skin. Avoid contact with skin and clothing. Wash with soap and water after handling. Remove contaminated clothing and wash before reuse. Do not get into eyes.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

PHYSICAL AND CHEMICAL HAZARDS

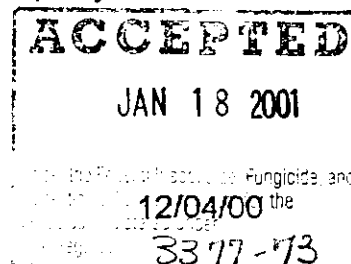
SANIBROM 43 BIOCIDES is not flammable. However, in fires fueled by other materials, hydrogen bromide or bromine may be released. In case of fire, wear self-contained breathing apparatus.

STORAGE AND DISPOSAL

STORAGE: Keep product in tightly closed original container when not in use. Store in well ventilated, dry area. Product should be stored at 50° F or above.

PESTICIDE DISPOSAL: Do not contaminate water, food or feed by storage or disposal. Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Triple rinse the container (or equivalent), then offer for recycle, reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.



with either gas chlorine (0.02 to 0.08 lbs. gas chlorine per 1000 gallons of contained volume), or sodium hypochlorite solution (0.02 to 0.07 gallons of 12.5% sodium hypochlorite solution per 1000 gallons of contained volume).

Subsequent Dose: When microbial control is evident, add 0.0003 to 0.044 gallons of SANIBROM 43 BIOCIDES per 1000 gallons of water contained in the system, and oxidize with either gas chlorine (0.008 to 0.08 lbs. gas chlorine per 1000 gallons of contained volume), or sodium hypochlorite solution (0.006 to 0.07 gallons of 12.5% sodium hypochlorite solution per 1000 gallons of contained volume).

PULP AND PAPER MILLS. When used as directed, SANIBROM 43 BIOCIDES effectively controls bacterial and fungal slime in pulp and paper mill fresh and sea water influent water systems, cooling water systems, wastewater treatment systems, nonpotable water systems, and other process water.

DOSAGE RATES: Add SANIBROM 43 BIOCIDES to the system at a 0.125 to 2.0 sodium bromide/oxidant mole ratio. For example:

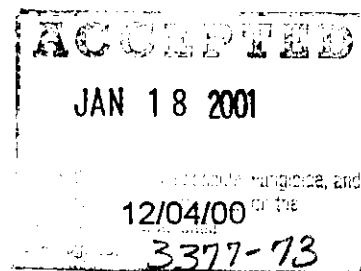
1. 1.8 to 29.0 pounds of chlorine gas (99.9%) per gallon of sodium bromide solution;
2. 1.4 to 23.2 gallons sodium hypochlorite (12.5% available chlorine) solution per gallon of sodium bromide solution.

Add sufficient SANIBROM 43 BIOCIDES and oxidize with either gas chlorine or sodium hypochlorite solution to achieve a residual bromine level of 0.5 to 5 ppm or as needed to maintain control of the system. SANIBROM 43 BIOCIDES can be added whenever chlorination is applied.

Feed SANIBROM 43 BIOCIDES either before or after the oxidant injection point into the water to be treated. Be sure rapid mixing of the treated water, SANIBROM 43 BIOCIDES and oxidant is achieved. Pump manufacturers can recommend the appropriate materials of construction and capacity for a pump to feed SANIBROM 43 BIOCIDES or sodium hypochlorite solution. If used as the oxidant, chlorine gas must be handled and used only in accordance with practices recommended in The Chlorine Manual published by the Chlorine Institute, Inc., New York. Use chlorine gas only in well ventilated areas.

Treatment levels of SANIBROM 43 BIOCIDES and oxidant can best be measured with test kits for either bromine or chlorine. Tests should be made immediately after drawing water samples from the system. Use test kits according to directions.

1. When a bromine test kit is used, results can be read directly as ppm bromine.
2. When a chlorine test kit is used, results can be expressed in terms of bromine by multiplying chlorine values by the conversion factor 2.25.



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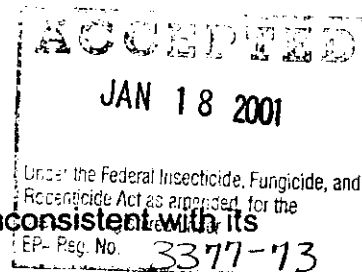
When the system is noticeably soiled, apply sufficient SANIBROM 43 BIOCIDES and chlorine or sodium hypochlorite to achieve a residual bromine level of 1.0-3.0 ppm or as needed to clean biofilm soil. A 0.25 to 1.0 mole ratio of sodium bromide to oxidant is recommended. Typically, the recommended mole ratio may be achieved by using 1.6 - 6.4 lbs of chlorine gas (99.9%) or 1.4 - 5.6 gallons NaOCl (12.5%) for each gallon of SANIBROM 43 BIOCIDES.

44

4

Seller makes no warranty expressed or implied concerning the use of this product other than indicated on the label. Buyer assumes all risk of use and/or handling of this material when such use and/or handling is contrary to label instructions.





DIRECTIONS FOR USE

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

RECIRCULATING COOLING WATER SYSTEMS, INCLUDING AIR WASHERS AND BREWERY PASTEURIZERS. When used as directed, SANIBROM 43 BIOCIDES effectively controls algae, bacterial, and fungal slimes and controls the settlement and growth of mollusks such as the zebra mussel (*Dreissens*) or the Asiatic clam (*Corbicula*) in commercial and industrial cooling towers; influent water systems such as flow through filters; heat exchange water systems; and industrial water scrubbing systems.

DOSAGE RATES: Add SANIBROM 43 BIOCIDES to the system at a 0.125 to 2.0 sodium bromide/oxidant mole ratio. For example:

1. 1.8 to 29.0 pounds of chlorine gas (99.9%) per gallon of sodium bromide solution;
2. 1.4 to 23.2 gallons sodium hypochlorite (12.5% available chlorine) solution per gallon of sodium bromide solution.

Initial Dose: When the system is noticeably fouled, add 0.0003 to 0.022 gallons of SANIBROM 43 BIOCIDES per 1000 gallons of water contained in the system and oxidize with either gas chlorine (0.008 to 0.042 lbs. gas chlorine per 1000 gallons of contained water), or sodium hypochlorite solution (0.007 to 0.034 gallons of 12.5% sodium hypochlorite solution per 1000 gallons of contained water).

Subsequent Dose: When microbial control is evident, add 0.00014 to 0.022 gallons of SANIBROM 43 BIOCIDES per 1000 gallons of water contained in the system, and oxidize with either gas chlorine (0.004 to 0.042 lbs. gas chlorine per 1000 gallons of contained water), or sodium hypochlorite solution (0.003 to 0.034 gallons of 12.5% sodium hypochlorite solution per 1000 gallons of contained water).

ONCE-THROUGH COOLING WATER AND WASTEWATER TREATMENT SYSTEMS. When used as directed, SANIBROM 43 BIOCIDES effectively controls algae, bacterial and fungal slimes and the growth and settlement of mollusks such as zebra mussel (*Dreissena*) or the Asiatic clam (*Corbicula*) in once-through fresh and sea water cooling systems as well as in secondary and tertiary wastewater treatment systems.

DOSAGE RATES: Add SANIBROM 43 BIOCIDES to the system at a 0.125 to 2.0 sodium bromide/oxidant mole ratio. For example:

1. 1.8 to 29.0 pounds of chlorine gas (99.9%) per gallon of sodium bromide solution;
2. 1.4 to 23.2 gallons sodium hypochlorite (12.5% available chlorine) solution per gallon of sodium bromide solution.

Initial Dose: When the system is noticeably fouled, add 0.0007 to 0.044 gallons of SANIBROM 43 BIOCIDES per 1000 gallons of water contained in the system, and oxidize