



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

SEP 26 2000

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

Anne M. Oxford
Albermarle Corporation
P.O. Box 14799
Baton Rouge, LA. 70820

SUBJECT: June 29, 2000 letter
Albermarle S 909 Biocide
EPA Registration 3377-55

Dear Ms. Oxford:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable subject to the comments listed below. All references to "food and beverage" and "industrial process pasteurizers" must be deleted. A tolerance or an exemption from a tolerance is required for the Industrial Process Pasteurizers site.

Two copies of the finished labeling must be submitted prior to releasing the re-labeled product for shipment. An acceptable copy of an edited label is enclosed. If you have any questions regarding this letter, please contact Tom Luminello of my staff at (703) 308-8075.

Sincerely yours,

A handwritten signature in black ink, appearing to read "R. Brennis".

Robert S. Brennis
Product Manager (32)
Regulatory Management Branch II
Antimicrobial Division (7510-C)

Enclosure

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

DANGER Corrosive. Causes irreversible eye damage and skin burns. Do not get in eyes on skin or on clothing. Wear protective eyewear (goggles or face shield), clothing and rubber gloves. Harmful if swallowed, or absorbed through the skin. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

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 public 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 sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA. Apply this pesticide only as specified on the label.

PHYSICAL AND CHEMICAL HAZARDS

ALBEMARLE S909 BIOCIDIE is not flammable. Avoid contact with strong oxidizers, acids, alkaloidal and heavy metal salts.

STORAGE AND DISPOSAL

STORAGE: Do not contaminate water, food, or feed by storage, disposal or cleaning of equipment.
PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. 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.
CONTAINER DISPOSAL
METAL CONTAINERS: 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.
PLASTIC CONTAINERS: Do not reuse empty container. Triple rinse (or equivalent). Then puncture and dispose of in a sanitary landfill, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.
TOTES: Verify that the tote is empty. Do not rinse or clean. Seal tote and contact appropriate vendor for tote pickup.

ACCEPTED
with COMMENTS
in EPA Letter Dated:
SEP 26 2000

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pesticide,
registered under FIFRA Reg. No. 3377-55

ALBEMARLE S909 BIOCIDIE

FOR USE AS A DISINFECTANT, FUNGICIDE, ALGICIDE AND/OR SLIMICIDE FOR WASTEWATER, COMMERCIAL AND INDUSTRIAL RECIRCULATING COOLING WATER SYSTEMS, INDUSTRIAL ONCE-THROUGH COOLING WATER SYSTEMS, AND PULP AND PAPER MILLS. CONTROLS BIOFILM DEPOSITS FROM PUMPS, PIPEWORK, HEAT EXCHANGERS, AND FILTERS ASSOCIATED WITH INDUSTRIAL WATER TREATMENT SYSTEMS. CONTROLS BACTERIAL, FUNGAL AND ALGAL SLIME IN DECORATIVE FOUNTAINS, AIR WASHERS AND FOOD, BEVERAGE, AND INDUSTRIAL PROCESS PASTEURIZERS

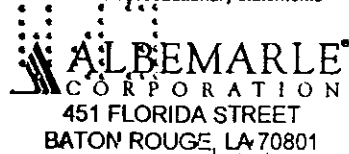
ACTIVE INGREDIENT
Bromine Chloride 11.0%
OTHER INGREDIENTS..... 89.0%
TOTAL 100.0%

Total Available bromine = approximately 15%
(expressed as chlorine = approximately 7%)

**KEEP OUT OF REACH OF
CHILDREN
DANGER**

FIRST AID

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
If swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
If on skin or clothing: 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.
If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 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.
NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.
See side panel for additional precautionary statements



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

EPA Reg. No. 3377-55
EPA Est. _____

Net Contents: _____

DIRECTIONS FOR USE

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

For use as a disinfectant, algicide, fungicide, and/or slimicide for wastewater, commercial and industrial recirculating cooling water systems and industrial once-through cooling water systems.

ALBEMARLE S909 BIOCIDIE may be added at system inlet water or other locations in the system.

WASTE WATER: When used as directed, ALBEMARLE S909 BIOCIDIE disinfects wastewater effluent. The quantity of ALBEMARLE S909 BIOCIDIE required varies with the degree of fouling. Add sufficient ALBEMARLE S909 BIOCIDIE to achieve residual bromine levels of 3 ppm to 10 ppm when measured approximately 5 minutes after treatment. Applying 4 fluid ounces to 1000 gallons of water yields a maximum of 6.4 ppm of total bromine. Higher dosages may be necessary depending upon the system.

Depending on the construction of the wastewater system, ALBEMARLE S909 BIOCIDIE may be effectively added to one or more different locations in the system. Frequently the compound is added to wastewater receiving secondary treatment at a contact tank preceding the effluent discharge or at the influent of the final clarifier.

The disinfection of sewage effluent must be evaluated by determining that the total number of coliform bacteria and/or fecal coliform bacteria, as determined by the MPN Procedure, of the disinfected effluent has been reduced to or below the maximum permitted by the controlling regulatory jurisdiction.

RECIRCULATING COOLING WATER SYSTEM: When used as directed, ALBEMARLE S909 BIOCIDIE effectively controls bacteria, fungi, algae and slimes in commercial and industrial cooling towers; heat exchange water towers, industrial water scrubbing systems, and influent systems such as flow through filters, lagoons, etc.

INDUSTRIAL ONCE-THROUGH COOLING WATER SYSTEMS: When used as directed, ALBEMARLE S909 BIOCIDIE effectively controls bacteria, fungi, algae and slimes in once-through and closed-cycle fresh and sea water cooling systems. Apply ALBEMARLE S909 BIOCIDIE to the system inlet water or before any other contaminated area in the system.

DOSAGE RATES:

INITIAL DOSES: When the system is noticeably fouled, apply sufficient ALBEMARLE S909 BIOCIDIE to achieve a residual bromine level of 4-10 ppm or as needed to maintain control. Applying 4 fluid ounces to 1000 gallons of water yields a maximum of 6.4 ppm of total bromine.
SUBSEQUENT DOSES: When microbial control is evident, apply sufficient ALBEMARLE S909 BIOCIDIE to achieve a residual bromine level of 4-10 ppm or as needed to maintain control. The product may be added to the system either continuously or intermittently or as needed to obtain the above residual. The frequency of feeding and dosage rate will depend upon the severity of the problem.

ALBEMARLE S909 BIOCIDIE can also be used to control biofilm deposits from pumps, pipework, heat exchangers, and filters associated with industrial water treatment systems.

PULP AND PAPER MILLS: When used as directed, ALBEMARLE S909 BIOCIDIE effectively controls algal, bacterial, and fungal slime in pulp and paper mill fresh and sea water influent water systems, cooling water systems, wastewater treatment systems and nonpotable water systems. Advisory Statement: This product can not be used in paper mills and pulp manufacturing sites where food packaging materials are produced.
DOSAGE RATES: Add sufficient ALBEMARLE S909 BIOCIDIE to achieve a residual bromine level of 4-10 ppm or as needed to maintain control of the system.

Feed ALBEMARLE S909 BIOCIDIE directly into the water to be treated. Be sure rapid mixing of the treated water, and ALBEMARLE

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