

PM 31

65402-5

5-20-97

1996



U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division (H7505C)  
401 "M" St., S.W.  
Washington, D.C. 20460

EPA Reg. Number:

Date of Issuance:

65402-5

MAY 20 1997

NOTICE OF PESTICIDE:

Registration  
 Reregistration

(under FIFRA, as amended)

Term of Issuance:

CONDITIONAL

Name of Pesticide Product:

B-CAP™ 50  
ANTIMICROBIAL AGENT

Name and Address of Registrant (include ZIP Code):

FMC Corporation  
Peroxygen Chemicals Division  
1735 Market Street  
Philadelphia, PA 19103

Note: Changes in labeling 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 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.

The Agency has completed a review of the registration application submitted for B-CAP™ 50 ANTIMICROBIAL AGENT which included a proposed basic formulation and two alternate formulations. The Agency has determined that the application package is sufficient to support registration of the proposed basic product formulation only. The proposed alternate formulations contain stabilizers which the Agency considers as "new inerts" for which additional chemistry data must be submitted.

Hence, this product is conditionally registered, for the basic formulation only, in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

Signature of Approving Official:

Date:

*Marshall Swindell*  
Marshall Swindell  
Acting Product Manager 31  
Regulatory Management Branch I  
Antimicrobial Division (7504C)

MAY 20 1997

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; and submit acceptable responses required for reregistration of your product under FIFRA section 4.

2. For the Active Ingredient (Hydrogen Peroxide) revise the lower certified limit (Item 14b.) on the Basic Formulation Confidential Statement of Formula (CSF), in compliance with PR Notice 91-2 so that it is lower than the nominal concentration and the stated label claim. A copy of PR Notice 91-2 is enclosed for reference.

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

- a. Add the phrase "EPA Registration No. 65402-5".
- b. In the front panel Ingredients Statement, revise the "Active Ingredients:" heading to read, "Active Ingredient:".
- c. As agreed upon in previous discussions, In the Directions for Use section, under the heading "Biofouling Control in Pulp and Paper Mill Systems", delete the reference to food-contact paper and paperboard. Add the statement "NOT FOR USE IN THE MANUFACTURE OF PAPER AND PAPERBOARD INTENDED FOR FOOD CONTACT."

4. Submit one (1) copy of the final printed labeling prior to release of the product for shipment.

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 labeling is enclosed for your records.

In order for the Agency to make a determination on the acceptability of the two proposed alternate formulations for B-CAP™ 50 ANTIMICROBIAL AGENT, please note the following:

Page 3  
EPA Reg. No. 65402-5

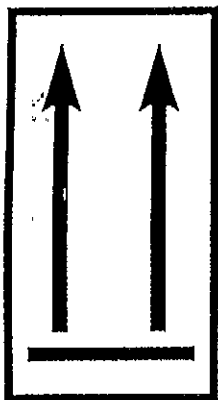
In compliance with EPA PR Notice 87-6 data requirements for new inerts, submit all data required to support the use of two new inerts cited as stabilizers in the Confidential Statement of Formula (CSF) for Alternate Formulation #1, "Potassium Stannate", and Alternate Formulation #2, "Sodium Stannate". A copy of EPA PR Notice 87-6 is provided, as an enclosure, for your reference. For further clarification on data requirements for new inert ingredients, please contact Kerry Leifer at (703) 308-8811.

Sincerely,



Marshall Swindell  
Acting Product Manager (31)  
Regulatory Management Branch I  
Antimicrobial Division (7504C)

Enclosures



# B-Cap™ 50 Antimicrobial Agent

EPA Registration No. 65402-X  
EPA Est. No.

B-Cap™ 50 Antimicrobial Agent is for biofouling and  
slime control in:

- Pulp and paper mill systems
- Recirculating and once through cooling water systems
- Pasteurizer cooling water systems
- Formulating FIFRA registered products
- Process waters

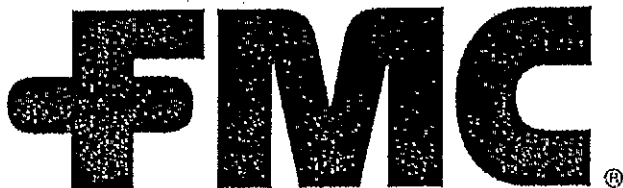
### For Industrial Use Only

Active Ingredients: Hydrogen Peroxide .....50%  
 Inert Ingredients: .....50%

**KEEP OUT OF REACH OF CHILDREN  
DANGER**

See side panel for additional precautionary statements

FMC and B-Cap are trademarks of FMC Corporation.



FMC Corporation  
 Peroxygen Chemicals Division  
 1735 Market Street  
 Philadelphia Pennsylvania 19103

### Precautionary Statements Hazards to Humans and Domestic Animals

#### DANGER

Corrosive, causes eye and skin damage. Harmful or fatal if swallowed. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves when handling. Wash thoroughly with soap and water after handling. Do not breath vapor or spray mist. Do not enter an enclosed area without proper respiratory protection.

#### Physical or Chemical Hazards

Strong oxidizing agent. Mix only with water. B-Cap™ 50 is not combustible; however, at temperatures exceeding 156°F, decomposition occurs releasing oxygen. The oxygen released could initiate or promote combustion of other materials.

#### Environmental Hazards

This pesticide is toxic to birds, mammals, fish and aquatic invertebrates. 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.

Any solution released from the system should be diluted with water and tested for residuals to ensure that there is less than 3 ppm peroxygen remaining.

#### Statement of Practical Treatment

**If swallowed:** Rinse mouth with water. Dilute by giving 1 or 2 glasses of water. Do not induce vomiting. See a physician.

**If inhaled:** Remove to fresh air. If breathing discomfort occurs, call a physician. If breathing has stopped, apply artificial respiration and see a physician.

**If in eyes:** Immediately flush with water for at least 15 minutes, lifting the upper and lower eyelids intermittently. See a physician.

**If on skin:** Immediately flush with plenty of water while removing contaminated clothing and/or shoes. Wash skin thoroughly with soap and water. See a physician. Wash contaminated shoes and clothing before reuse.

**Note to Physician:** Probable mucosal damage may contraindicate the use of gastric lavage.

### Storage and Disposal

**NEVER RETURN OXYCIDE™ TO THE ORIGINAL CONTAINER AFTER IT HAS BEEN REMOVED.** Avoid all contaminants, especially dirt, caustic, reducing agents, and metals. Contamination and impurities will reduce shelf life and can induce decomposition. In case of a decomposition, isolate container, douse container with cool water and dilute B-Cap™ with large volumes of water.

Avoid damage to containers. Keep container closed at all times when not in use. Keep container out of direct sunlight. To maintain product quality, store at temperatures below 85°F. Do not store on wooden pallets.

#### Procedure for Leak or Spill

Stop leak if this can be done without risk. Shut off ignition sources; no flames, smoking, fires, or spark producing tools. Keep combustible and organic materials away. Flush spilled material with large quantities of water. Undiluted material should not enter confined spaces.

#### Disposal

##### Pesticide Disposal

If material has been spilled, an acceptable method of disposal is to dilute with at least 20 volumes of water followed by discharge into suitable treatment system in accordance with all local, state, and Federal environmental laws, rules, regulations, standards, and other requirements. Because acceptable methods of disposal may vary by location, regulatory agencies should be contacted prior to disposal.

B-Cap 50, antimicrobial agent which is to be discarded should be diluted with a large amount of water and discharged into a suitable treatment system in accordance with local, State and Federal regulations.

##### Container Disposal

Empty drums are not returnable to FMC unless special arrangements have been made. Triple rinse drums with water. Dispose of drums in accordance with local, state, and Federal regulations. Do not reuse.

RECD EPA/URP/DPDI

'96 SEP 18 A9 30

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

MAY 20 1997

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

05402-5

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## Directions for Use

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

### B-Cap 50, antimicrobial agent

A microbicide for use in controlling slime and sulfate forming bacteria in air washing systems, recirculating and once through water cooling towers and systems, including pasteurizer cooling water systems and industrial closed recirculating process water systems.

### Air Washers and Recirculating and Once Through Cooling Water Systems

1. Severely fouled systems should be cleaned prior to treatment.
2. This product may be used in all types of cooling water systems that have mist-eliminating components. B-Cap 50 should be added at a point where uniform mixing can be achieved, for example the basin area. Addition may be intermittent or continuous. Hydrogen peroxide should not be mixed with other chemicals or additives without first checking for compatibility. Contamination with other chemicals could cause product decomposition.
  - Intermittent (Slug Dose) — When the system is heavily fouled, add 2.1 to 108 FL oz. of B-Cap 50 per 1000 gallons of water in the system, (10 to 500 ppm). Repeat until control is achieved. When control is evident add 1.0 to 2.1 FL oz. of B-Cap 50 per 1000 gallons of water in system (5.0 to 100 ppm H<sub>2</sub>O<sub>2</sub>) as needed to maintain control.
  - Continuous Feed — Initial Dose. If the system is noticeably fouled use slug dose procedure. Once control is achieved, continuous feed of 0.2 to 10 FL oz. B-Cap 50 per 1000 gallons of water per day in the system, (1-50 ppm H<sub>2</sub>O<sub>2</sub>). Dosage rates should be increased or decreased depending on the control achieved.

### Pasteurizer Cooling Water Systems

B-Cap 50 may be used at the same application rates and in the same manner as described above. The solution should be added to the closed recirculating system at a point where uniform mixing can be achieved, e.g., basin, sump or collection areas.

### Biofouling Control in Pulp and Paper Mill Systems

For use in the manufacture of paper and paperboard intended for ~~non~~ non-food contact.

B-Cap 50 can be used to control bacterial, fungal and yeast growth in pulp, paper and paperboard mills.

1. Severely fouled systems should be cleaned prior to treatment with B-Cap 50. Add B-Cap 50 directly to the system, don't mix with other chemicals or additives without first testing for compatibility. Contamination with other chemicals could result in product decomposition.
2. Add the B-Cap 50 at a point in the system where it can be mixed uniformly with the pulp, e.g., the beater, hydropulper, fan pump, broke pump, etc.
3. Apply 1-40 FL oz. of B-Cap 50 per ton of (dry basis) pulp or paper produced, (20-775 ppm H<sub>2</sub>O<sub>2</sub>). Addition may be continuous or intermittent depending on the type of system and severity of the biofouling.

### Process Waters

B-Cap 50 may be used to aid in minimizing slime formation in process waters intended for use in precleaning hard, non-porous surfaces, e.g., metals, glass or plastics prior to being painted, plated, or coated; cleaning pipes, equipment or other process equipment.

1. Add B-Cap 50 at a point in the system where it can be mixed uniformly. The quantity of product required will depend upon the severity of the fouling.
2. Apply 0.2 to 108 FL oz. per 1000 gallons of water in the system (1 to 500 PPM). Once control is achieved, reduce application rate accordingly.

### Manufacturing Use

Use in Reformulation of Other Registered Products

B-Cap 50, antimicrobial agent may be used as a source of the active ingredient hydrogen peroxide in the formulation of sanitizer, disinfectant and antimicrobial/biocidal formulations/products registered under FIFRA. Formulators using this product for this purpose are responsible for FIFRA registration of their products and for compliance with other requirements of FIFRA. For technical support contact FMC's Peroxygen Chemicals Division.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

MAY 20 1997

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide  
registered under EPA Reg. No.  
6.5402-5

In all applications always prepare a new solution daily to ensure effectiveness. Do not re-use solutions. Dispose of unused solution.

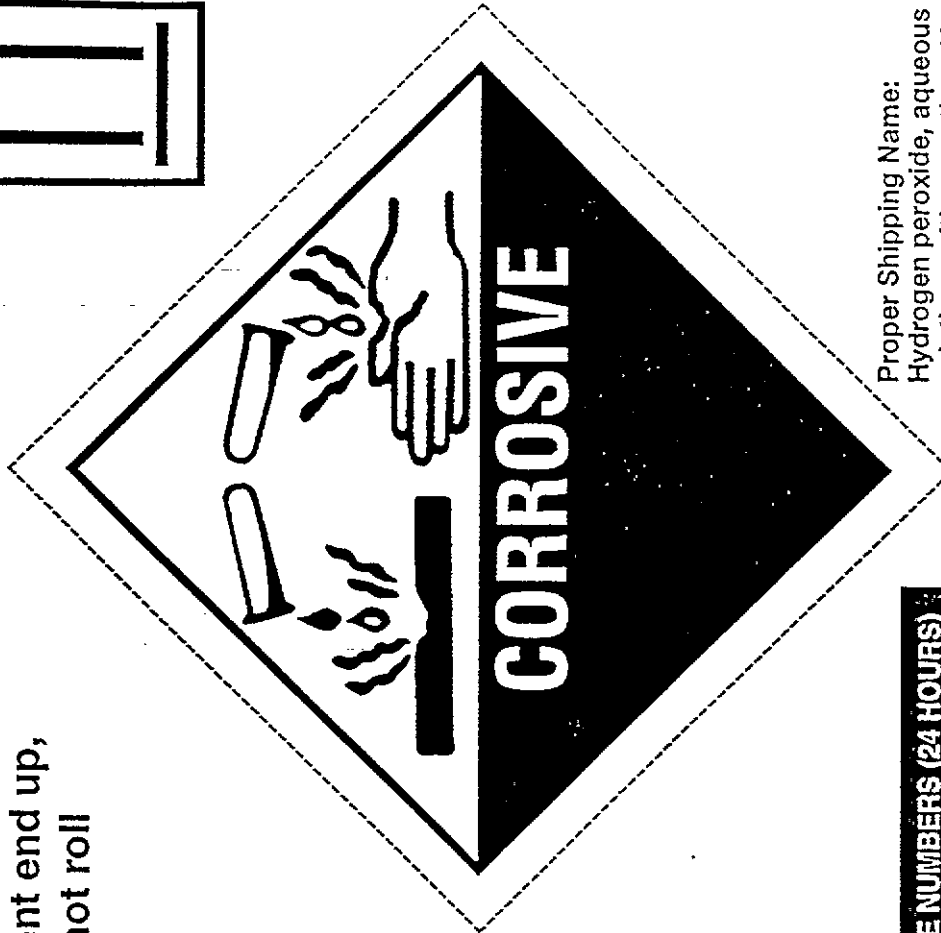
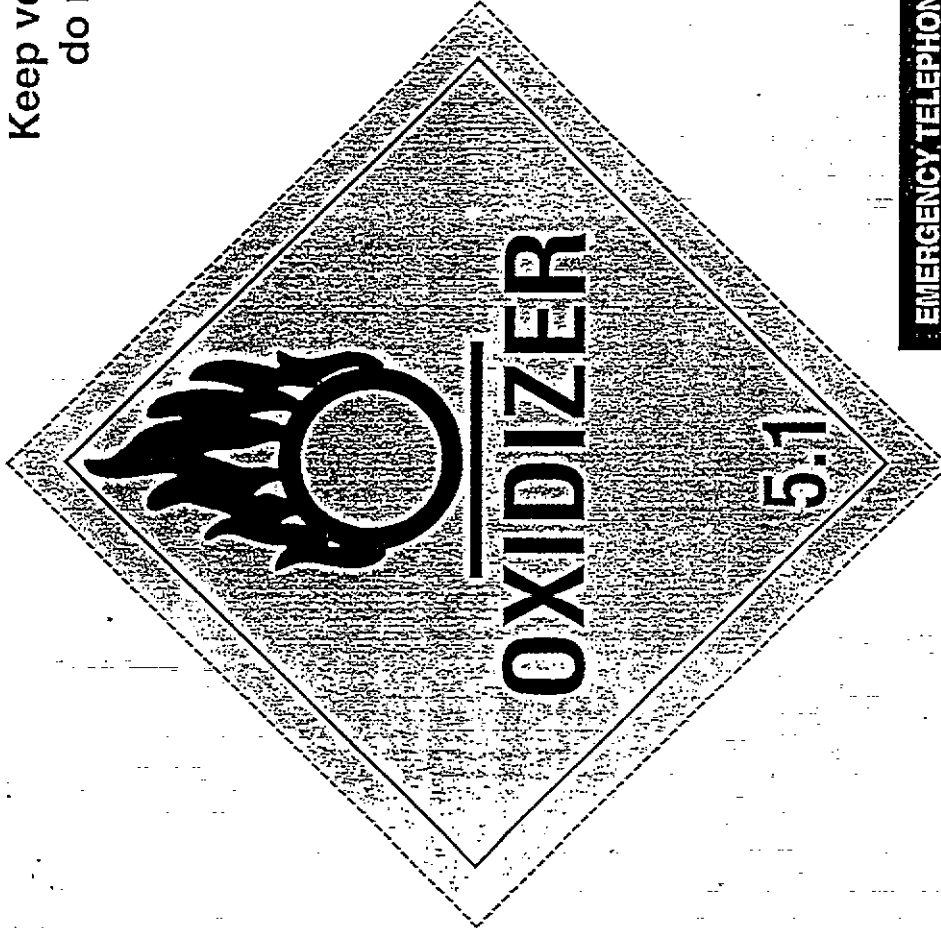
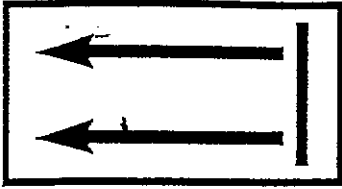
Sell

Net Contents

Gallons

Pounds

Keep vent end up,  
do not roll



ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

MAY 20 1997

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act, as  
amended, for the pesticide  
registered under EPA Reg. No. 65402-5

EMERGENCY TELEPHONE NUMBERS (24 HOURS)  
MEDICAL: COLLECT 303-595-9048  
TRANSPORTATION: 800-424-9300  
OTHER: COLLECT 716-879-0400

For more information see Material Safety Data Sheet  
Label Effective Date: June 1986

Proper Shipping Name:  
Hydrogen peroxide, aqueous  
solutions with more than 40  
percent but not more than  
60 percent hydrogen  
peroxide.

UN 2014

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