

72674-5

6/26/2001

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## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

JUN 26 2001

Mark E. Burt, Ph.D.  
Regulatory Manager  
**AVECIA BIOCIDES**  
1405 Foulk Road - P.O. Box 15457  
Wilmington, Delaware 19850-5457

Attention: Dr. Mark E. Burt:

Subject: Amended Label/Add Language for Household Consumer Products  
**VANTOCIL IB MICROBIOCIDES**  
EPA Registration Number 72674-5  
Your Letter Dated March 29, 2001

The amendment referred to above, submitted in connection with registration under section 3(c)(7)(A) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), is acceptable provided that you:

1. Submit/cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) or 4(a) 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 bearing the amended labeling:

FIRST AID	
IF IN EYES	<ul style="list-style-type: none"> <li>•Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>•Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>•Call a poison control center or doctor for treatment advice.</li> </ul>
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none"> <li>•Take off contaminated clothing.</li> <li>•Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>•Call a poison control center or doctor for treatment advice.</li> </ul>
IF SWALLOWED	<ul style="list-style-type: none"> <li>•Call poison control center or doctor immediately for treatment advice.</li> <li>•Have person sip a glass of water if able to swallow.</li> <li>•Do not induce vomiting unless told to do so by the poison control center or doctor.</li> </ul>
HOT LINE NUMBER	
<p>"In case of emergency call toll free at (Registrant fill in )."</p> <p>The product container or label with you when calling a poison control center or doctor or going for treatment."</p>	
NOTE TO PHYSICIAN	
<p>"Probable mucosal contraindicate the use of gastric lavage."</p>	

CONCURRENCES	
SYMBOL	7510c
SURNAME	2.000ms
DATE	6.26.01

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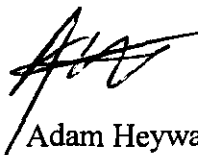
3. The following statements are suggested types of information that may be included in the first aid statement.
  - technical information on symptomatology;
  - use of supportive treatments to maintain life functions;
  - medicine that will counteract the specific physiological effects of the pesticide;
  - company telephone number to specific medical personnel who can provide specialized medical advice.
4. Submit three (3) copies of your final printed labeling before you release the product for shipment

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 bearing the amended labeling constitutes acceptance of these conditions.

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

If you have any questions, please contact LaVerne Dobbins at (703) 308-6378.

Sincerely,



Adam Heyward  
Product Manager (34)  
Regulatory Management Branch II  
Antimicrobials Division (7510C)

Enclosure:

# VANTOCIL® IB

## MICROBIOCIDES

PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND  
DOMESTIC ANIMALS

### WARNING

CAUSES SUBSTANTIAL BUT TEMPORARY EYE INJURY. HARMFUL IF SWALLOWED. DO NOT GET CONCENTRATE IN EYES OR CLOTHING. AVOID CONTACT WITH SKIN. AVOID BREATHING VAPOR OR MIST. WEAR GOGGLES OR FACE SHIELD WHEN HANDLING CONCENTRATE. WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING. WASH CLOTHING AND DECONTAMINATE FOOTWEAR BEFORE REUSE. MAY CAUSE ALLERGIC SKIN REACTION.

**ENVIRONMENTAL HAZARDS:** THIS PESTICIDE IS TOXIC TO FISH. 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.

### STORAGE AND DISPOSAL:

**PROHIBITIONS:** DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL. OPEN DUMPING IS PROHIBITED.

**PESTICIDE DISPOSAL:** WASTES RESULTING FROM THE USE OF THIS PRODUCT MAY BE DISPOSED OF ON SITE OR AT AN APPROVED WASTE DISPOSAL FACILITY.

**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 APPROVED STATE AND LOCAL PROCEDURE.

### ACTIVE INGREDIENT:

POLY(MINOIMIDOCARBONYLIMINOIMIDOCARBONYLIMINOHEXAMETHYLENE) HYDROCHLORIDE.....20%  
INERT INGREDIENT.....80%

## WARNING

### KEEP OUT OF REACH OF CHILDREN

#### STATEMENT OF PRACTICAL TREATMENT

**IF IN EYES:** IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES AND GET MEDICAL ATTENTION.

**IF ON SKIN:** WASH WITH PLENTY OF SOAP AND WATER. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

**IF SWALLOWED:** DRINK A LARGE QUANTITY OF WATER. DO NOT INDUCE VOMITING. AVOID ALCOHOL. CALL A PHYSICIAN.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

EPA REG. NO. 72674-5  
EPA EST. NO. 72674-TN-01

JUN 26 2001

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No. 72674-5

### DIRECTIONS FOR USE

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.

VANTOCIL IB MICROBIOCIDES IS A HIGH-ACTIVITY MICROBIOCIDES FOR USE IN APPLICATIONS SUCH AS OIL-IN-WATER AND WATER-IN-OIL EMULSIONS, INDUSTRIAL REAGENTS, SILICONE SYSTEMS AND CELLULOSE SOLUTIONS. VANTOCIL IB MICROBIOCIDES CAN ALSO BE USED FOR THE PRESERVATION OF ANIMAL HIDES AND SKINS. SEE TECHNICAL INFORMATION BULLETIN 64-0000-025 FOR DIRECTIONS FOR USE.

**NOTICE TO BUYER AND USER:** SELLER WARRANTS THAT THIS PRODUCT CONFORMS TO THE CHEMICAL DESCRIPTION ON THE LABEL AND IS REASONABLY FIT FOR THE PURPOSES STATED ON THE LABEL WHEN USED IN ACCORDANCE WITH DIRECTIONS UNDER NORMAL CONDITIONS OF USE. THIS WARRANTY DOES NOT EXTEND TO THE USE OF THIS PRODUCT CONTRARY TO LABEL INSTRUCTIONS, OR UNDER ABNORMAL USE CONDITIONS, OR UNDER CONDITIONS NOT REASONABLY FORESEEABLE TO SELLER, AND BUYER AND USER ASSUME THE RISK OF ANY SUCH USE. SELLER DISCLAIMS ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF FITNESS OR MERCHANTABILITY. SELLER SHALL NOT BE LIABLE FOR CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, AND SELLER'S SOLE LIABILITY AND BUYER'S AND USER'S EXCLUSIVE REMEDY SHALL BE LIMITED TO THE REFUND OF THE PURCHASE PRICE. STATEMENTS CONCERNING THE USE OF THE PRODUCTS OR FORMULATIONS DESCRIBED HEREIN ARE NOT TO BE CONSTRUED AS RECOMMENDING THE INFRINGEMENT OF ANY PATENT AND NO LIABILITY FOR INFRINGEMENT ARISING OUT OF ANY SUCH USE IS ASSUMED.

# Avecia

Medical Emergency Information Center - 800-286-7850  
Chemical Emergency Response Center - 800-424-2466

P.O. Box 15457  
Wilmington  
Delaware 19850-5457  
USA  
800-435-8679

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# Vantocil® IB

## Microbiocide

### Technical Information Bulletin

#### General Information

VANTOCIL® IB is a highly effective preservative for use in a wide variety of applications including oil-in-water and water-in-oil emulsions, industrial reagents, silicone systems, cellulose solutions and oil recovery systems. VANTOCIL IB can also be used for the preservation of animal hides and skins and certain textile and cellulosic products.

#### Physical Properties

Specific Gravity at 68°F:	1.04 (approx.)
Density at 68°F, lb/gal:	8.8 (approx.)
Flash Point, °F(TCC):	>200
Pour Point, VF:	32
pH at 77°F:	5.5 (approx.)

#### Chemical Description

VANTOCIL IB is an aqueous solution of polyhexamethylene biguanide hydrochloride and is soluble in water and stable under all normal conditions of storage. The active ingredient, itself, is heat stable and nonvolatile.

#### Compatibility

VANTOCIL IB is a mild cationic compound and is compatible with nonionic and cationic compounds. VANTOCIL IB, nonionics and cationics should be metered through separate pumps. VANTOCIL IB is not compatible with oxidizing chemicals, most anionic compounds and copper. VANTOCIL IB is precipitated by strong alkalies and complex phosphates. When doubt exists as to the compatibility of VANTOCIL IB with other compounds, bottle tests at the concentrations to be used should be made with the material in question.

#### Directions for Use

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

#### Product

##### Silicones:

Use VANTOCIL IB at levels of 100-5,000 ppm for the preservation of silicone systems such as silicone emulsions and silicone dispersions.

#### Dosage

1 lb. to 50 lb.  
VANTOCIL IB  
per 10,000 lb.  
product

##### Tunnel Pasteurization:

For the preservation of waters used in tunnel pasteurization and tunnel cooling of sealed packages of canned and bottled foodstuffs, use VANTOCIL IB at levels of 100-1,000 ppm.

13 fl. oz. to 1 gal.  
VANTOCIL IB  
per 1,000 gal.  
tunnel  
pasteuriza-  
tion water

##### Aqueous Industrial Chemicals:

For the preservation of aqueous industrial chemicals such as reagents, oil-in-water emulsions, water-in-oil emulsions, textile spin finish lubricants, wash water and cellulose solutions, use VANTOCIL IB at levels of 100-5,000 ppm.

1 lb. to 50 lb.  
VANTOCIL IB  
per 10,000 lb.  
product

##### Leather Processing:

Use VANTOCIL IB at levels of 100-3,000 ppm for the preservation of leather processing solutions.

1 lb. to 30 lb.  
VANTOCIL IB  
per 10,000 lb.  
product

MASTER

**Product****Dosage*****Aqueous Based Polymer Latices:***

Use VANTOCIL IB at levels of 500-5,000 ppm for the preservation of aqueous based polymer latices such as polyvinyl acetate and polyvinyl alcohol. Do not use to preserve latices used for paper coating compositions that may contact food.

5 lb. to 50 lb.  
VANTOCIL IB  
per 10,000 lb.  
product

***Aqueous Mineral Slurries:***

Use VANTOCIL IB at levels of 500-5,000 ppm for the preservation of aqueous mineral slurries such as calcium carbonate, titanium dioxide. Do not use to preserve slurries used for paper coating compositions that may contact food.

5 lb. to 50 lb.  
VANTOCIL IB  
per 10,000 lb.  
product

***Aqueous Based Adhesives:***

Use VANTOCIL IB for the preservation of aqueous based adhesives such as animal glues, latex adhesives based on polyvinyl acetate, PVA, etc., starch, synthetic, dextrin, casein and other glues at a concentration of 500-5,000 ppm. Do not be used in aqueous based latex adhesives intended for food packaging applications at a maximum use level of 5,000 ppm.

5 lb. to 50 lb.  
VANTOCIL IB  
per 10,000 lb.  
product

***Industrial Electrocoats:***

Use VANTOCIL IB at levels of 1,000 - 5,000 ppm for the preservation of electrocoat resins and deposition systems.

10 lb. to 50 lb.  
VANTOCIL IB  
per 10,000 lb.  
product

***Household Consumer Products:***

Use VANTOCIL IB at levels of 250 - 2,500 ppm for the preservation of liquid and solid or paste consumer products such as surface cleaners, floor cleaners, fabric stain removers, automotive care silicone emulsions, and automotive cleaning products.

2.5 lb. to 25 lb.  
VANTOCIL IB  
per 10,000 lb.  
product

**Product****Dosage*****Preservation of Fresh Animal Hides and Skins:***

To preserve the integrity of fresh animal hides and skins prior to or during processing, use 15 fluid ounces to 3 gallons. Add the appropriate quantity of VANTOCIL IB to the brine solution during the curing operation or treat hides or skins with an appropriately diluted aqueous solution during other portions of the processing operation. The specific use rate and contact time needed to control microbial attack will depend upon the degree of decomposition of the hides or skins prior to treatment.

1.0-2.6 lbs. of  
VANTOCIL IB  
per 1,000  
pounds of  
hides or  
skins

***Cellulosic Materials and Textiles***

VANTOCIL IB can be used as an agent to control the growth and action of microorganisms, and control generation of odors, on textiles such as cotton, cotton blends, cellulosic materials, and synthetic fibers such as non-wovens, tissues, paper and pulps.

VANTOCIL IB is diluted and applied to give 0.025-2.0% on the dry weight of the substrate. Application is by conventional means such as padding, spraying, soaking or exhaustion. The optimum conditions for application of the dilute solution are pH 6.5-8 and temperature of 20-30°C.

The following are examples of products (substrates) suitable for antimicrobial finishing with VANTOCIL IB:

Textiles such as: household products, for example, upholstery, carpet, curtains, wall coverings, mops, dishcloths, yarns, cords, and towelling.

Cellulosics such as: wipes, tissues, sponges, paper products (non-food contact) such as filters and cellulose pulp.

## **Oil Recovery**

Not for use in oil recovery systems which employ holding ponds for spent liquids. Do not apply in, over or near marine and/or estuarine oil fields.

Specific rates for use of VANTOCIL IB should be determined by bacteriological tests made prior to treatment. These tests should establish (a) the presence of microorganisms, (b) the severity of the problem, and (c) required treating ratio. The effectiveness of a treatment can be evaluated by similar bacteriological tests. The compatibility of VANTOCIL IB with the water should be determined prior to treatment.

Some suggested treatment methods and treating rates for water systems include:

### **Oil Field Injection Waters**

1. **SLUG METHOD** - When the system is noticeably fouled, apply 4 gallons of VANTOCIL IB per 1,000 barrels of water (95 ppm of product). VANTOCIL IB should be added to the system at a point where it will be uniformly mixed. Repeat on a weekly basis, or as needed to establish control.

When microbial control is evident, the treating rate may be lowered to 2 gallons of VANTOCIL IB per 1,000 barrels of water (47 ppm of product) weekly, or as needed to maintain control.

Badly fouled systems should be cleaned before treatment is begun.

2. **CONTINUOUS METHOD** - Before beginning a continuous treatment, apply a slug treatment of 4 gallons of VANTOCIL IB per 1,000 barrels of water (95 ppm of product). Continue treatment by applying 0.15 to 0.8 gallons (19 to 102 ounces) of VANTOCIL IB per 1,000 barrels of water (4 to 20 ppm of product).

### **Drilling Muds**

1. Calculate the total volume of the drilling mud system, and using this volume calculate the number of gallons of VANTOCIL IB needed to produce a concentration of approximately 3,000 ppm. For example 126 gallons of VANTOCIL IB per each 1,000 barrels of total volume will produce this concentration.

2. While the system is circulating, add the amount of VANTOCIL IB calculated above in a thin stream.
3. As the well depth increases, increasing the total volume of the system, add additional VANTOCIL IB as required to maintain the proper concentration.

### **Workover Fluids**

1. Calculate the total volume of the workover fluid system, and using this volume calculate the number of gallons of VANTOCIL IB needed to produce a concentration of approximately 3,000 ppm. For example, 126 gallons of VANTOCIL IB per each 1,000 barrels of total volume will produce this concentration.
2. Add VANTOCIL IB into the system.
3. Circulate the workover fluid system until the fluid returns clear.
4. Shut the system down and idle for several hours.
5. Remove the workover fluid. The well should be ready for productive use.

### **General**

VANTOCIL IB is an effective preservative in most aqueous compositions. The concentration required to give protection depends on factors such as the susceptibility of the system to microbiological degradation, the extent to which microorganisms can gain access and the type of microorganisms present.

### **Packaging**

VANTOCIL IB is packaged in 55-gallon drums and 5-gallon pails.

### **WARNING**

#### **Keep Out of Reach of Children**

Causes substantial but temporary eye injury. Harmful if swallowed. Do not get concentrate in eyes or on clothing. Avoid contact with skin. Avoid breathing vapor or mist. Wear goggles or face shield when handling concentrate. Wash thoroughly with soap and water after handling. Wash clothing and decontaminate footwear before reuse. May cause allergic skin reaction.

### Statement of Practical Treatment

**IF IN EYES:** Immediately flush with plenty of water for at least 15 minutes and get medical attention.

**IF ON SKIN:** Wash with plenty of soap and water. Get medical attention if irritation persists.

**IF SWALLOWED:** Drink a large quantity of water. Do not induce vomiting. Avoid alcohol. Call a physician.

### Environmental Hazards

This pesticide is toxic to fish. Do not discharge 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.

### Storage and Disposal

#### Prohibitions

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

### Pesticide Disposal

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

### 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.

### Safe Handling Information

Refer to the Material Safety Data Sheet (MSDS) available from Avecia Biocides for information on the safe use, handling and disposal of this product.

For technical information, literature, sample and order information, please contact Customer Services: 800-523-7391.

For more information, visit our website at [www.aveciabiocides.com](http://www.aveciabiocides.com).

VANTOCIL is a registered trademark of Avecia Inc.



ISO 9002  
FS 22484

### FOR YOUR PROTECTION

AVECIA Inc. ("AVECIA") warrants that this product conforms to the chemical description on the label and that it is reasonably fit for the purposes stated on the label when used in accordance with AVECIA's directions under normal conditions of use. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal use conditions, or under conditions not reasonably foreseeable to AVECIA, and the buyer or user assumes the risk of any such use. AVECIA DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WAR-

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### Avecia Biocides

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