

PM 32 10182-128 1046

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

JUN 12 1992

ICI Americas Inc.
Concord Pike & New Murphy Road
Wilmington, DE 19897

Attn: Mark E. Burt

Subject: Label and Brochure for
Vantocil IB Microbiocide
EPA Reg. No. 10182-128
Your Application Dated March 10, 1992

This is in response to your request for an EPA stamped accepted copy of the final printed labeling which you submitted for the subject product.

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable provided that you make the revision indicated below. A stamped copy of the labeling is enclosed for your records.

- In the Chemical Description section of the brochure, include "hydrochloride" after "biguanide."

Five copies of the finished labeling must be submitted prior to releasing the product for shipment bearing the amended labeling.

Sincerely yours,

Ruth G. Douglas
Product Manager (32)
Antimicrobial Program Branch
Registration Division (H7505C)

Enclosure

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							

PM32 10182-128

2076

VANTOCIL® IB

microbiocide

Active ingredient:
Poly(iminohydroxymethyliminohydroxymethyliminohexamethylene
hydrochloride) 20%
Inert ingredients 80%

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

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.

ENVIRONMENTAL HAZARDS: This pesticide is toxic to fish. Do not discharge into lakes, streams, ponds or public waters unless in accordance with NPDES permit. For guidance contact your Regional Office of the Environmental Protection Agency.

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 procedures.

MANUFACTURED BY:

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.

EPA Reg. No. 10182-128
EPA Est. No. 10182-MA-01

ACCEPTED
with COMMENTS
to EPA Letter Dated

JUN 12 1992

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

10182-128

DIRECTIONS FOR USE

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

VANTOCIL IB Microbiocide is a high-activity microbiocide for use in applications such as oil-in-water and water-in-oil emulsions, industrial reagents, silicone systems and cellulose solutions. VANTOCIL IB Microbiocide can also be used for the preservation of animal hides and skins.

See Technical Information Bulletin 64-000-025 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, 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 in the infringement of any patent and no liability for infringement arising out of any such use is assumed.



Biocides

ICI Biocides
Wilmington, DE 19827
(302) 886-3000
A part of ICI Specialties
A business of ICI Americas Inc.

PL 16558 7/89

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Biocides

ACCEPTED 3046
WITH COMMENTS
EPA Letter Date:

JUN 12 1992

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the treatment

10182-128

VANTOCIL® IB Microbiocide

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.

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, °F	32
pH at 77°F	5.5 (approx.)

CHEMICAL DESCRIPTION

VANTOCIL IB is an aqueous solution of polyhexamethylene biguanide 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 alkalis and complex phosphates. When doubt exists as to the compatibility of VANTOCIL IB with other compounds, bottle tests at the concentration 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 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

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 1000
pounds of
hides or
skins

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.

ACCEPTED
with COMMENTS
by EPA Letter D-100

JUN 12 1992

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, the Administrator of the Environmental Protection Agency...

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 or public waters unless in accordance with an NPDES permit. For guidance contact your Regional Office of the Environmental Protection Agency.

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 MSDS available from ICI Biocides for information on the safe use, handling and disposal of this product.

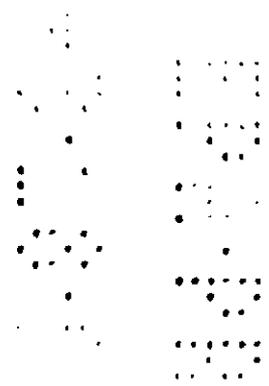
For literature, samples and order information, please contact Customer Services: 800-523-7391.

For technical information, please contact Application Research and Technical Services: 302-886-8428.

ACCEPTED
with COMMENTS
in EPA L-70-0-100

JUN 12 1992

10182-128



APPROVED
FOR EXPORT
BY THE
FDA

JUN 12 1982

10182-128

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