

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Antimicrobials Division (7510C)
1200 Pennsylvania Avenue NW
Washington, D.C. 20460

EPA Reg. Number: 72674-32

Date of Issuance: January 13, 2004

NOTICE OF PESTICIDE:
[x] Registration
Reregistration

Term of Issuance: Conditional

Name of Pesticide Product: Solid PHMB Sanitizer

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Avecia Biocides
1405 Foulk Road, P.O. Box 15457
Wilmington, DE 19850-5457

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.

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.

This product is conditionally registered in accordance with FIFRA sec 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration 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. Make the labeling changes listed below before you release the product for shipment:

a. Add the phrase "EPA Registration Number 72674-32"

Signature of Approving Official:

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

Date:

January 13, 2004

EPA Form 8570-6

CONCURRENCES

Table with columns for SYMBOL, SURNAME, and DATE, used for recording approvals.

2 8 12

- b. The signal word must be changed to "DANGER" wherever it appears on the label.
- c. The precautionary statements must be revised to read as follows:

PRECAUTIONARY STATEMENT  
Hazard to Humans and Domestic Animals  
DANGER

"Corrosive. Causes irreversible eye damage. Harmful if swallowed. Do not get in eyes or on clothing. Wear protective eyewear such as goggles, face shield, or safety glasses. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or, using the bathroom. Remove and wash contaminated clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals."

- e. The first aid statements should must read as follows::

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.
- Call a Poison Control Center or doctor for treatment advice.

If swallowed:

- Call a Poison Control Center or doctor immediately for treatment advice.
- Have the person sip a glass of water if able to do so.
- Do not induce vomiting unless told to by a Poison Control Center or doctor.
- Do not give anything to an unconscious person.
- Probable mucosal damage may contraindicate the use of gastric lavage.

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

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

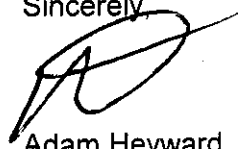
3712

3. Submit three (3) copies of the revised final printed label bearing the revisions prior to releasing this product for sale.

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.

Sincerely,



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

Enclosure

CONCURRENCES

SYMBOL							
SURNAME							
DATE							

4 8 12

**SOLID PHMB SANITIZER**

[Descriptor for the Cartridge Label: Designed to fit SOLID PHMB Feeders]  
Net Contents: [One Cartridge – 6 lbs.] [One Unit: 16 tablets, 2400 grams; 2 Capsules, 300 grams; 4 tablets, 600 grams]

Active Ingredient: (Poly(iminoimidocarbonyliminoimidocarbonyliminohexamethylene hydrochloride)).....96.3%  
Inert ingredients.....3.7%  
Total.....100.0%

**KEEP OUT OF REACH OF CHILDREN**

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

**WARNING**

**HARMFUL IF SWALLOWED. CORROSIVE, CAUSES EYE DAMAGE. DO NOT GET IN EYES. WEAR GOGGLES OR FACE SHEILD WHEN HANDLING. MAY CAUSE ALLERGIC SKIN REACTION.**

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 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 a poison control center or doctor 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 a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<p align="center"><b>MEDICAL EMERGENCY INFORMATION CENTER</b> 1-800-286-7850</p> <p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment.</p>	

**ENVIRONMENTAL HAZARDS**

This product is toxic to fish. Do not contaminate water by cleaning of equipment or disposal of wastes.

**WARRANTY STATEMENT**

**NOTICE TO BUYER AND USER – LIMITED WARRANTY FROM AVECIA INC. –**

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 instructions. This warranty does not extend to the use of this product contrary to the label instructions, or under abnormal use conditions. Avecia will replace the product or refund the purchase price at your option should this warranty be found to be invalid.

ACCEPTED  
with COMMENTS  
EPA Letter # 01-011

JAN 13 2003

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 72674-32

5 8 12

breached within one year of sale. THE DURATION OF ANY IMPLIED WARRANTIES IS LIMITED TO ONE YEAR.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you. IN NO EVENT SHALL AVECIA BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING LOST PROFITS, and no person is authorized to alter the terms of AVECIA's warranty. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. For warranty assistance, write Business Manager, SOLID PHMB, AVECIA, 1405 Foulk Rd, Wilmington, DE 19850. This warranty gives you specific legal rights and you may have other rights which vary from state to state.

EPA Reg. No. 72674-XX  
EPA Est. No. \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_

**DIRECTIONS FOR USE**

It is a violation of federal law to use this product in a manner other than for which it was intended.

**TREATING POOL**

**POOLS PREVIOUSLY TREATED WITH CHLORINE**

Important – SOLID PHMB SANITIZER is incompatible with chlorinating chemical products. Consult your Authorized Dealer of SOLID PHMB for information on balancing your pool water.

Check free and combined chlorine levels with chlorine test kit prior to the beginning of neutralization. To eliminate chlorine from pool water, add SOLID PHMB CHLORINE NEUTRALIZER per label directions and filter overnight. Check chlorine levels with chlorine test kit. If free chlorine is detected, repeat neutralizer treatment.

Note: If the pool is a plaster pool, add 1-¼ lbs (1 bottle) of SOLID PHMB METAL REMOVING AGENT per 10,000 gallons of pool water after the chlorine has been neutralized, and allow pump/filter to operate for 8-12 hours.

If the pool water contains algae or is hazy, consult the problem-solving section of "The Pool Care Guide for SOLID PHMB," available from your Authorized Dealer of SOLID PHMB. Backwash or clean pool filter. Check the pH level and adjust to 7.2-7.8 if necessary.

**{Option 1 - 150-g TABLETS "PUNCHED" OUT OF A BLISTER PACK}**

**START-UP WITH SOLID PHMB  
FRESHLY FILLED AND DECHLORINATED POOLS**

1. With pump on, add SOLID PHMB SANITIZER TABLETS according to the chart below to provide a level of 6 to 10 ppm. To add a TABLET, hold a blister pack with the TABLET facing you and push it through the paper seal underneath and into the skimmer. Repeat this procedure to add all tablets to the skimmer.

**START-UP DOSAGE**

Pool Volume (gallons)	No. of TABLETS for Start-up
7,500	1
10,000	2
12,500	2
15,000	3
17,500	4
20,000	4
22,500	5
25,000	5
27,500	6
30,000	7

2. After 24 hours, check pH, total alkalinity and SOLID PHMB SANITIZER levels with SOLID PHMB TEST STRIPS. If the level of SOLID PHMB SANITIZER is less than 6 ppm, add SOLID PHMB SANITIZER TABLETS to the skimmer according to the Top-Up Chart in the "ROUTINE POOL CARE" section below to bring the level to 6 to 10 ppm. Do not swim until SANITIZER level reaches 6 ppm.

**ROUTINE POOL CARE**

1. Every week, using SOLID PHMB TEST STRIPS check pH, total alkalinity and SOLID PHMB SANITIZER level.
2. Maintain SOLID PHMB SANITIZER level at 6 to 10 ppm. If level falls below 6 ppm, add a top-up dose according to the chart below to bring the level to 6 to 10 ppm. Turn the pump on when adding SOLID PHMB SANITIZER.
3. If Sanitizer level is higher than 10 ppm, do not add any more TABLETS until level drops to 10 ppm or below. Do not swim until level reaches 10 ppm or below.

7 8 12

### TOP-UP DOSAGE

Pool Volume (gallons)	No. of TABLETS for Top-up
7,500	1
10,000	1
12,500	1
15,000	2
17,500	2
20,000	2
22,000	2
25,000	2
27,500	3
30,000	3

**NOTE:** Consult the booklet, "The Pool Care Guide for SOLID PHMB," for more information on dosage of SOLID PHMB SANITIZER.

**{Option 2. 150-g CAPSULES DELIVERED IN A POROUS BLISTER PACK}**

**START-UP WITH SOLID PHMB  
FRESHLY FILLED AND DECHLORINATED POOLS**

1. With pump on, add SOLID PHMB SANITIZER CAPSULE according to the chart below to provide a level of 6 to 10 ppm. To add a CAPSULE, peel the protective seal off of the package to expose the pores. Then place the CAPSULE in the skimmer. Repeat this procedure to add all CAPSULES required. When all SOLID PHMB SANITIZER has dissolved, remove the empty CAPSULE from the skimmer and discard.

**START-UP DOSAGE**

Pool Volume (gallons)	No. of CAPSULES for Start-Up
7,500	1
10,000	2
12,500	2
15,000	3
17,500	4
20,000	4
22,500	5
25,000	5
27,500	6
30,000	7

2. After 24 hours, check pH, Total Alkalinity and SOLID PHMB SANITIZER level with SOLID PHMB TEST STRIPS. If the level of SOLID PHMB SANITIZER is 6 ppm or less, add SOLID PHMB SANITIZER CAPSULE to the skimmer according to the Top-Up Chart in the "ROUTINE POOL CARE" section below to bring the level to 6 to 10 ppm. Do not swim until SANITIZER level reaches 6 ppm.

**ROUTINE POOL CARE**

1. Every week, using SOLID PHMB TEST STRIPS check pH, total alkalinity and SOLID PHMB SANITIZER level
2. Maintain SOLID PHMB SANITIZER level at 6 to 10 ppm. If level falls below 6 ppm, add a top-up dose according to the chart below to bring the level to 6 to 10 ppm. Turn the pump on when adding SOLID PHMB SANITIZER.
3. If Sanitizer level is higher than 10 ppm, do not add any more CAPSULES until level drops to 10 ppm or below. Do not swim until level reaches 10 ppm or below.



9 8 12

**TOP-UP DOSAGE**

<b>Pool Volume (gallons)</b>	<b>No. of CAPSULES for Top-Up</b>
7,500	1
10,000	1
12,500	1
15,000	2
17,500	2
20,000	2
22,000	2
25,000	2
27,500	3
30,000	3

**NOTE:** Consult the booklet, "The Pool Care Guide for SOLID PHMB," for more information on dosage of SOLID PHMB SANITIZER.

10 3 12

**{Option 3. FOR USE WITH FEEDER SYSTEM STARTED WITH POROUS BLISTER PACKS }**

**START-UP WITH SOLID PHMB  
FRESHLY FILLED AND DECHLORINATED POOLS**

1. Add the SOLID PHMB SANITIZER CARTRIDGE to the SOLID PHMB FEEDER.
2. With pump on add SOLID PHMB SANITIZER START-UP CAPSULE according to the chart below to provide a level of 6 to 10 ppm. To add a CAPSULE, peel the protective seal off of the package to expose the pores. Then place the CAPSULE in the skimmer. Repeat this procedure to add all CAPSULES required. When all SOLID PHMB SANITIZER has dissolved, remove the empty CAPSULE from the skimmer and discard.

**START-UP DOSAGE**

<b>Pool Volume (gallons)</b>	<b>No. of START-UP CAPSULE</b>
7,500	1
10,000	2
12,500	2
15,000	3
17,500	4
20,000	4
22,500	5
25,000	5
27,500	6
30,000	7

3. After 24 hours, check pH, total alkalinity and SOLID PHMB SANITIZER level with SOLID PHMB TEST STRIPS. If the level of SOLID PHMB SANITIZER is 6 ppm or less, adjust the dial on the feeder to bring the level to 6 to 10 ppm. Do not swim until SANITIZER level reaches 6 ppm.

**ROUTINE POOL CARE**

1. Every week, using the SOLID PHMB TEST STRIPS, check pH, total alkalinity and SOLID PHMB SANITIZER level.
2. Maintain SOLID PHMB SANITIZER level at 6 to 10 ppm using the feeder. If the level falls below 6 ppm, increase the dial setting on the feeder to provide a level of 6 to 10 ppm.
3. If the SOLID PHMB SANITIZER CARTRIDGE is empty, turn the pump off. Replace the empty SANITIZER CARTRIDGE with a new one and turn on the pump. Adjust the dial setting on the feeder to maintain a SOLID PHMB SANITIZER level at 6 to 10 ppm.
4. If Sanitizer level is higher than 10 ppm, turn off feeder until level drops to 10 ppm or below. Do not swim until level reaches 10 ppm or below.

**{Option 4. FOR USE WITH FEEDER SYSTEM STARTED WITH TABLETS}**

**START-UP WITH SOLID PHMB  
FRESHLY FILLED AND DECHLORINATED POOLS**

1. Add the SOLID PHMB SANITIZER CARTRIDGE to the SOLID PHMB FEEDER.
2. With pump on, add SOLID PHMB SANITIZER START-UP TABLETS according to the chart below to provide a level of 6 to 10 ppm. To add a TABLET, hold a blister pack with the TABLET facing you and push it through the paper seal underneath and into the skimmer. Repeat this procedure to add all TABLETS to the skimmer.

**START-UP DOSAGE**

<b>Pool Volume (gallons)</b>	<b>No. of START-UP TABLETS</b>
7,500	1
10,000	2
12,500	2
15,000	3
17,500	4
20,000	4
22,500	5
25,000	5
27,500	6
30,000	7

3. After 24 hours, check pH, total alkalinity and SOLID PHMB SANITIZER level with SOLID PHMB TEST STRIPS. If the level of SOLID PHMB SANITIZER is 6 ppm or less, adjust the dial on the feeder to bring the level to 6 to 10 ppm. Do not swim until SANITIZER level reaches 6 ppm.

**ROUTINE POOL CARE**

1. Every week, using the SOLID PHMB TEST STRIPS, check pH, total alkalinity and SOLID PHMB SANITIZER level.
2. Maintain SOLID PHMB SANITIZER level at 6 to 10 ppm using the feeder. If the level falls below 6 ppm, increase the dial setting on the feeder to provide a level of 6 to 10 ppm.
3. If the cartridge is empty, turn the pump off. Replace the empty cartridge with a new one and turn on the pump. Adjust the dial setting on the feeder to maintain a SOLID PHMB SANITIZER level of 6 to 10 ppm.
4. If Sanitizer level is higher than 10 ppm, turn off feeder until level drops to 10 ppm or below. Do not swim until level reaches 10 ppm or below.

12 8 12

### **PROBLEM-SOLVING AND SUPPLEMENTAL POOL INFORMATION**

Do not use in unpainted plaster pools previously exposed to metals, which may cause staining. (See current "Pool Care Guide" for specific information) SOLID PHMB is not compatible with many detergents and some supplemental algicides (such as those based on copper).

If algae development, cloudiness, or pool problems occur or additional information on water quality is desired, consult "The Pool Care Guide for SOLID PHMB," available from your Authorized Dealer of SOLID PHMB.

### **STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage or disposal

#### **STORAGE**

Store in a cool, dry place. Keep container closed when not in use. Store in original container in an area inaccessible to children.

#### **DISPOSAL**

Securely wrap [cartridge] [unit] [container] in several layers of newspaper and discard in trash.

Do not reuse container.

SOLID PHMB is a registered trademark of Avecia Limited.

Made in U.S.A.

Manufactured by  
Avecia Inc.  
Wilmington, DE 19850

© 2003, Avecia Inc.

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

NOTE: Bracketed [] information is optional text/picture/diagram. Text separated by a comma (,) denotes – and/or-options. {Bracketed Text} is for administrative purposes only and will not appear on the printed label.