



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:

72674-27

NOV 01 2002

Term of Issuance:

Name of Pesticide Product:

Densil CA

NOTICE OF PESTICIDE:

- Registration
- Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Avecia
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. 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.

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/ 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. Make the following label changes:
 - a. Revise the EPA Registration Number to read, "EPA Reg. No. "72674-27".

Signature of Approving Official:

Marshall Swindell, PM 33
Regulatory Management Branch 1
Antimicrobial Division (7510W)

Date:

NOV 01 2002

b. On the front panel, change the signal word from “WARNING” to “DANGER” since the acute inhalation study for this product has been assigned toxicity category II.

c. The Precautionary Statements must be revised to read:

Precautionary Statements
DANGER

“Corrosive. Causes irreversible eye damage and skin burns. May be fatal if inhaled. Harmful if swallowed or absorbed through skin. Do get in eyes, on skins, or, on clothing. Do not breath vapor or spray mist. Wear protective eyewear (goggles or face shield). Wear protective clothing and gloves. Wear one of the following NIOSH-approved respirators: (1) a non-powered cartridge respirator equipped with an N-, R- or P-series air-purifying filter (NIOSH prefix TC-84), OR, (2) a powdered cartridge respirator equipped with a high efficiency particulate air (HEPA) filter (MSHA/ NIOSH approval number prefix TC-21C). Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Remove contaminated clothing and wash contaminated clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.”

d. On the left panel delete the word “WARNING” and replace with the word “DANGER”.

e. On the right panel include a “Storage and Disposal” heading.

f. On the Technical Information Bulletin, change the signal word “WARNING” to “DANGER”.

g. On the Technical Information Bulletin, delete the word “Prohibition”.

2. The revised Confidential Statement of Formula dated May 20, 2002 is in compliance with PR Notice 91-2, agrees with the label and is acceptable.

3. The acute toxicity profile for this product registration is currently:

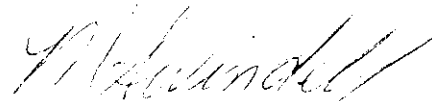
Acute oral toxicity	III	Acceptable
Acute dermal toxicity	III	Acceptable
Acute inhalation toxicity	II	Acceptable
Primary eye irritation	I	Waived
Primary skin irritation	I	Waived
Dermal sensitization	Strong Sensitizer	Acceptable

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.

If you have any questions concerning this letter, please contact Martha Terry at (703) 308-6217.

Sincerely,



Marshall Swindell
Product Manager 33
Regulatory Management Branch 1
Antimicrobial Division (7510C)

Enclosure

4 8 11

(Center Panel)

DENSIL™ CA

FOR THE CONTROL OF FUNGAL AND ALGAL GROWTH ON EXTERIOR PAINTS, CAULKS, STUCCO AND STAINS

Active Ingredient:

Chlorothalonil (tetrachloroisophthalonitrile).....	47%
N-Cyclopropyl-N'-(1,1-dimethylethyl)-6-(methylthio)-	
1,3,5-triazine-2,4-diamine.....	6%
Inert Ingredients:	47%
Total	100%

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in EPA Letter Dated:
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KEEP OUT OF REACH OF CHILDREN

~~WARNING~~
DANGER

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

72674-27

First Aid:

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.

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 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 Inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

Medical Emergency Information Center
1-800-286-7850

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

Note to Physician

Possible mucosal damage may contraindicate the use of gastric lavage.

SEE ADDITIONAL PRECAUTIONARY STATEMENTS ON SIDE PANEL

Contents:	US Gallons	If Lot# Begins With "BTF", EPA Est. No. 37429-GA-1
EPA Reg. No. 72674-		If Lot# Begins With "BOC", EPA Est. No. 37429-GA-2
Manufactured by:		
AVECIA	P.O. Box 15457	Medical Emergency Information Center 800-286-7850
	Wilmington, DE	Chemical Emergency Response Center 800-424-2466
	19850-5457 USA	
	800-435-8679	
Lot Number:	Product Code:	

(Left Panel)

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**WARNING
DANGER**

Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear protective eyewear goggles or face shield. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse. Harmful if swallowed. Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. May be fatal if inhaled. Do not breathe vapor. Wear a mask or pesticide respirator jointly approved by the Mine Safety and Health Administration and the National Institute for Occupational Safety and Health. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

When applying paints containing this product with a sprayer, painters should wear a respirator. If the paint product does not already recommend/require a respirator for sprayer applications, the respirator statement on the paint product must be: "When applying with a sprayer should wear a dust/mist filtering respirator (MSHA/NIOSH approved number prefix TC-21C), or a NIOSH approved respirator with any R, P, or HE filter." If oil is not present in the paint product or recommended for use as an additive in the paint product, add "N" as an additional respirator type."

Environmental Hazards:

This product 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 Pollution 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 local State Water Board or Regional Office of the EPA. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not apply in marine and estuarine oil fields.

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(Right Panel)

Directions For Use: It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. See Technical Information Bulletin for Directions for Use.

STORAGE AND DISPOSAL

Pesticide Storage:

Store in a cool place. Protect from frost. Protect from excessive heat.

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:

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.

For information on spills, call 1-800-424-2466

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Densil™ CA



Summary

DENSIL CA, is an aqueous dispersion of a broad spectrum fungicide in combination with a broad spectrum algaecide, for control of fungal and algal growth on exterior paints, caulks, stucco, and stains. DENSIL CA provides excellent characteristics when used as a fungicide/algaecide in aqueous systems only, such as latex emulsion paints, stains, and coatings, stucco, and caulks.

DENSIL CA is registered with the Environmental Protection Agency and has been granted EPA Registration No.

General

Like natural substrates, coatings (if unprotected) can be susceptible to the growth of a wide range of fungi and algae. The uncontrolled growth of these organisms can lead to failure of coatings for their intended purpose of protecting expensive substrates. DENSIL CA is an effective fungicide/algaecide which provides long term protection from fungal and algal defacement of the paint film.

Some critical advantages of DENSIL CA are: synergistic biocidal action of the active agents, hydrolytic stability, extremely low water solubility, low vapor pressure, fine particle size, excellent pH stability, and endurance to UV radiation.

Properties of DENSIL CA

Active Fungicide Ingredient
2,4,5,6-Tetrachloroisophthalonitrile

Active Algaecide Ingredient
N-Cyclopropyl-N'-(1,1-dimethylethyl)-6-(methylthio)-1,3,5-triazine-2,4-diamine

Total Active Content: 53%
Appearance: Off-white dispersion
Physical State: Liquid
Odor: Odorless
Specific Gravity: 1.29 g/ml
Bulk Density: 10.75 lb/gal
Freezing Point: -5 °C
pH (approx): 8.5
Corrosivity to Metals: Noncorrosive

Properties of the Active Fungicide Ingredient

Empirical Formula: C₈C₁₄N₂
Molecular Weight: 265.9
Melting Range, °C: >350 at 760 mm Hg
Vapor Pressure: 5.72 x 10⁻⁷ at 25 °C
Rate of Hydrolysis: Does not hydrolyze in either neutral or acidic medium. Slow hydrolysis may occur if pH exceeds 9, with half life of 38 days.
Thermal Stability: Stable under normal temperature of storage

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Avecia Biocides

Preserving your products. Protecting your investment.

Avecia

Mode of Action

2,4,5,6-Tetrachloroisophthalonitrile is a multi-site protective fungicide. The mode of action is the binding of the active molecule to the glutathion moiety, thus preventing completion of the energy cycle of the fungal species, and ultimately controlling fungal growth. Unlike many other systemic fungicides, this is not a site specific activity. Hence there is no known resistance to the fungal control.

N-Cyclopropyl-N'-(1,1-dimethylethyl)-6-(methylthio)-1,3,5-triazine-2,4-diamine is a broad spectrum algaecide, it has activity against both fresh water and sea water algae. The mode of action of this active agent is that of an inhibitor of photosynthesis.

Directions for Use

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

Observe all precautions listed under "Precautionary Statements" when handling this product.

When properly used at labeled rates, DENSIL CA is an effective fungicide/algaecide in most aqueous products. It is the responsibility of the manufacturer to test DENSIL CA for optimum dosage levels and to determine compatibility and suitability for intended use.

The following examples are intended as a guide to the many uses of DENSIL CA:

Product	%DENSIL CA (Based on total weight of product)
Latex emulsion paints, stains and coatings	0.40 - 2.0
Caulks	0.25 - 1.0
Stucco	0.25 - 1.0

General Recommendations

The concentration required to give intended and desired degree of protection depends on several factors. These include the type of substrate to be protected, specific coating formulations, geographic location, cultural practices and the length of desired protection.

In most cases, for nominal to extended protection against fungal and algal attack, a concentration within the range of 0.25-2.5% DENSIL CA is almost invariably sufficient.

It is recommended that DENSIL CA be added during or after letdown stage. If desired DENSIL CA can be added as a post-add to the finished paint. This is especially useful for base paints. It is important to ensure thorough mixing of DENSIL CA into the formulated paint.

When an in-can preservative is used in combination with DENSIL CA, it should be tested first for compatibility. DENSIL CA is compatible with latex paints containing zinc oxide. Further information is available from our Technical Service personnel.

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Keep Out Of Reach Of Children

~~WARNING~~ **DANGER**
Precautionary Statements

Hazards To Humans And Domestic Animals

Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear protective eyewear goggles or face shield. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse. Harmful if swallowed. Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. May be fatal if inhaled. Do not breathe vapor. Wear a mask or pesticide respirator jointly approved by the Mine Safety and Health Administration and the National Institute for Occupational Safety and Health. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

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center or doctor for treatment advice.

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 Inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**Medical Emergency Information Center
1-800-286-7850**

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

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

Environmental Hazards

This product 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 Pollution 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 local State Water Board or Regional Office of the EPA. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not apply in marine and estuarine oil fields.

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Storage And Disposal

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

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

Pesticide Storage

Store in a cool place. Protect from frost. Protect from excessive heat.

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

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.

For information on spills, call 1-800-424-2466

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

For more information, visit our website at www.aveciabiocides.com

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Densil is a trademark of Avecia Inc.

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, EXPRESSED OR IMPLIED, INCLUDING ANY WAR-**

RANTY OF MERCHANTABILITY. (Statements herein, therefore, should not be construed as representations or warranties.)

IN NO EVENT SHALL AVECIA BE LIABLE FOR ANY SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, INCLUDING LOST PROFITS, ON ANY THEORY WHATSOEVER, INCLUDING NEGLIGENCE, and Avecia'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 the formulations described therein 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 Biocides

1405 Foulk Road
Wilmington, DE 19850