

11350-34

7-16-2002

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

EPA Reg. Number:  
11350-34

Date of Issuance:  
JUL 16 2002

NOTICE OF PESTICIDE:  
 X  Registration  
    Re-registration

Term of Issuance:  
**CONDITIONAL Expires  
6/1/2004**

(under FIFRA, as amended)

Name of Pesticide Product:  
Sigmaplane Ecol HA  
Antifouling Redbrown  
5294

Name and Address of Registrant (include ZIP code):  
Sigma Coatings  
P. O. Box 816  
1401 Destrehan Avenue  
Harvey, Louisiana 70059

**Note:** Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Antimicrobials 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, as amended.

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 Section 3(c) (7) (A) provided that you:

1. Submit and/or cite all data required for registration of your product under FIFRA Section 3(c) (5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for re-registration of your product under FIFRA Section 4.

2. Make the following labeling changes:

a. Revise the EPA Registration Number to read, "EPA Reg. No. 11350-34".

Signature of Approving Official:

Marshall Swindell, Product Manager, Team 33,  
Regulatory Management Branch I, Antimicrobials Division

Date:

JUL 16 2002

- 3. Submit the following protocol and study within 7 months (i.e., by **02/27/03**) of the date stamped of this Conditional Registration:

Inhalation Monitoring Protocol  
GLN 875.1700 Product Use Information

- 4. Submit the following study within 16 months (i.e., by **11/30/03**) of the date stamped of this Notice of Conditional Registration:

Inhalation Monitoring Study\*

\*(Intent: Measure airborne concentrations of Sea-Nine 211 during ship painting operations with a representative marine antifoulant (MAF) paint. Prior to initiating the monitoring study submit the study design for Agency review to ensure compliance with Agency methodologies for conducting such studies. Also note that this study is intended to support only the presence of 3% active ingredient in end-use paint formulations.)

- 5. Submit the following studies within 3 months (i.e., by 10/31/02) of the date stamped of this Notice of Conditional Registration:

GLN 72-4 Aquatic Invertebrate Life Cycle (Freshwater Invertebrate)  
GLN 73-1 Whole Sediment Acute, Freshwater Invertebrate (include the fate of parent compound vs metabolites particularly in aquatic sediment)  
Special Leaching Study: Release Rate Study on the Sea-Nine 211 active ingredient for each of your alternate paint formulations.

- 6. Submit the following studies within 10 months (i.e., by **06/01/03**) of the date stamped of this Conditional Registration:

GLN 72-4 Fish Early Life Stage(Rainbow Trout)  
GLN 165-5 Accumulation Studies(Oysters)  
GLN 122-1 \*Tier I Seedling emergence and  
GLN 122-1 \*Tier I vegetative vigor, or  
GLN 122-1 \*Tier II seedling emergence, and  
GLN 123-1 \*Tier II vegetative vigor

\* For antifoulants use rice (Oryza sativa): In Tier I tests (for pesticides with unknown phytotoxic potential), only the maximum label dosage is used. If the maximum label dosage is not known or if the pesticide is a known phytotoxicant, testing would begin at Tier II. Testing at the Tier II level requires use of a minimum of 5 dosages(dose response testing) in order to establish the EC25, or 25% effect level and the NOAEC (no adverse effect level) or an EC05. TEP Testing is required.

GLN 123-1 Tiers I and II floating aquatic macrophyte using Lemna gibba

- GLN 123-2 Aquatic Plant Growth **\*\***(using all species):
  - Pseudokerschneria subcapitata (formerly Selenastrum capricornutum)-freshwater green algae
  - Anabaena flos-aquae-freshwater green algae cyanobacteria
  - Navicula pelliculosa-freshwater diatom
  - Skeletonema costatum-marine diatom

**\*\* The TGAI or TEP may be treated, the choice being dependent on the ability of the active ingredient to stay in solution. In the aquatic plant tests, we require determination of the amount needed for adversely affect the plants by 50% (EC50value). We also require determination of the NOAEC (no adverse effect level) or an EC0 value. Scientific Advisory Panels in 1994, 1996, and again in 2001 have recommended that we routinely test all 5 of these aquatic plant species because each one represents any thousands of other plants in their class.**

7. Submit the following "reserved" studies within 18 months of the date of the Agency's written request for these data. The need for these reserved data will be based upon the results of one or more of the above studies as determined by the Agency.

- GLN 164-2 Aquatic Field Study
- GLN 124-2 Tier II Field Study
- GLN 71-4 Avian Reproduction
- GLN 72-6 Aquatic organism bioavailability/biomagnification/toxicity tests
- GLN 72-5 Fish Life Cycle
- GLN 72-7 Simulated or actual field testing for aquatic organisms
- GLN 73-3 Acute Pore Water Studies(fish and invertebrates)
- GLN 74-1 Whole Sediment Chronic Study(invertebrates)
- Special Study: Monitoring of Representative U.S. Waters

8. The following studies were previously required, submitted, reviewed and are acceptable:

- GLN 73-2 Whole Sediment Acute, Marines Invertebrate
- GLN 163-1 Adsorption/Desorption (Batch Equil)
- GLN 163-1 Soil Column

9. The following study was submitted but determined to be unacceptable: GLN 162-1 Aerobic Soil Metabolism. In order to submit an acceptable study you must use two soil types different from each other and different from the soil types used in the previous study (MRID # 44791101).

10. This conditional registration will expire automatically on **6/01/2004**. If you fail to satisfy the conditions imposed in the registration, EPA may issue a Notice of Registration, EPA may issue a Notice of Registration to Cancel under under Section 6(e) of FIFRA. Your release for shipment of the product constitutes acceptance of these conditions.

11. Submit two (2) copies of the revised final printed labeling you release the product for shipment.

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

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.

If you have any questions concerning this letter, please contact Karen M. Leavy-Munk at (703)-308-6237.



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

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

CAUSES MODERATE EYE IRRITATION. HARMFUL IF INHALED. AVOID BREATHING SPRAY MIST. WASH HANDS BEFORE EATING, DRINKING, CHEWING GUM, USING TOBACCO OR USING TOILET. AVOID CONTACT WITH EYES AND CLOTHING. REMOVE CONTAMINATED CLOTHING AND WASH CLOTHING BEFORE REUSE.

UNPROTECTED PERSONS SHOULD BE KEPT OUT OF THE TREATMENT AREAS WITHIN A DISTANCE OF 100 FEET. DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING. AVOID CONTACT WITH SKIN. WEAR A FULL FACE SHIELD. AVOID BREATHING VAPOR, MIST, DUST, OR CHIPS FROM PAINTING OR SANDING. WHILE SPRAYING PAINT OR SANDING BOAT SURFACE, WEAR A SUPPLIED-AIR OR POWERED AIR PURIFYING RESPIRATOR (PAPR) APPROVED BY NIOSH FOR USE WITH PAINTS AND COATINGS.

WEAR A TYVEK HOODED COVERALL OR THE EXACT EQUIVALENT, COVERALLS BENEATH THE TYVEK HOODED COVERALLS, IMPERVIOUS GLOVES AND IMPERVIOUS FOOTWEAR THAT PROTECTS THE LOWER LEGS. REMOVE CONTAMINATED CLOTHING AND DISCARD AFTER EACH USE, DO NOT REUSE. WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING AND BEFORE EATING AND SMOKING.

**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. CALL A POISON CONTROL CENTER OR DOCTOR FOR FURTHER TREATMENT ADVICE.

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

**IF INHALED:** MOVE PERSON TO FRESH AIR. IF PERSON IS NOT BREATHING, CALL 911 OR AMBULANCE THEN GIVE ARTIFICIAL RESPIRATION, PREFERABLY MOUTH - TO - MOUTH, IF POSSIBLE. CALL A POISON CONTROL CENTER OR DOCTOR FOR FURTHER TREATMENT ADVICE.

**IF SWALLOWED:** CALL A PHYSICIAN OR POISON CONTROL CENTER. DRINK PROMPTLY A LARGE QUANTITY OF WATER. DO NOT INDUCE VOMITING. AVOID ALCOHOL.

**NOTE TO PHYSICIAN:** PROBABLE MUCOSAL DAMAGE MAY CONTRAINDICATE THE USE OF GASTRIC LAVAGE. CONTAINS PETROLEUM DISTILLATES.

**ENVIRONMENTAL HAZARDS**

THIS PESTICIDE IS TOXIC TO 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 OFFICES OF THE EPA. DO NOT APPLY DIRECTLY TO WATER BY CLEANING OF EQUIPMENT OR DISPOSAL OF WASTES. DO NOT ALLOW CHIPS AND DUST GENERATED DURING PAINT REMOVAL ENTER WATER. DISPOSE OF PAINT DEBRIS IN AN APPROVED LANDFILL. WEAR PROTECTIVE CLOTHING AND SUPPLIED AIR RESPIRATOR IN ACCORDANCE WITH THE PRECAUTIONARY STATEMENTS ABOVE WHEN HANDLING, PAINTING OR REMOVING THIS PAINT.

**PHYSICAL OR CHEMICAL HAZARDS**

FLAMMABLE. KEEP AWAY FROM HEAT AND OPEN FLAME  
EPA EST. NO. 11350-LA-1



# SIGMA COATING

## SIGMAPLANE ECOL HA ANTI

### REDBROWN

# 5294

**ACTIVE INGREDIENTS:**

CUPROUS OXIDE .....  
4,5-DICHLORO-2-N-OCTYL-4-ISOTHIAZOLIN-3-ONE ....

OTHER INGREDIENTS .....

**KEEP OUT OF REACH OF CHILDREN**

## CAUTION

SEE FIRST AID AND OTHER PRECAUTIONS  
ON SIDE PANEL  
FOR COMMERCIAL USE ONLY

SIGMA COATING

• 1401 Destrehan Ave. • Harvey

## DIRECTIONS FOR USE

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

Refer to Sigma's "Technical Data Sheet on Sigmaplane Ecol HA Antifouling 5294" for complete directions before using.

For use on steel and fiberglass boat hulls to control barnacle growth in fresh and salt water. Do not apply below 36 degrees F unless care is taken to insure absence of frost or ice. Surfaces to be painted shall be free of dirt, oil, grease and other surface contaminants. Apply in accordance with Sigma's directions or specifications given in the Technical Data Sheet for 5294. For steel surfaces, apply only over recommended primers as recommended in the Technical Data Sheet. For fiberglass surfaces, use only the primer recommended in the Technical Data Sheet.

FOR USE IN COMMERCIAL OR GOVERNMENT SHIPYARDS ONLY. NOT INTENDED FOR USE IN MARINAS OR PLEASURE CRAFT

### STORAGE AND DISPOSAL

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

### PESTICIDE STORAGE

Avoid storage where the product may become contaminated or containers damaged. Store between 40 and 110 degrees F.

### PESTICIDE DISPOSAL

Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of federal law. Dispose in accordance with all regulations under the Resource Conservation and Recovery Act (RCRA). If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or Hazardous Waste representative at the nearest EPA Regional Office for guidance.

### CONTAINER DISPOSAL

**METAL CONTAINERS:** Triple rinse (or equivalent). Then offer for recycling or reconditioning or puncture and dispose of in sanitary landfill or by other Approved State and Local procedures.

**NET CONTENT: 5 U.S. GALLONS**



ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

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

11350-34

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**SIGMAPLANE ECOL HA ANTIFOULING****5294**

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April 2002  
Revision of December 2001**DESCRIPTION**

Sigmaplane Ecol HA Antifouling is a high build, high activity, abrasive anti-fouling with cuprous oxide and organic co-biocides as the active ingredients.

**PRINCIPAL CHARACTERISTICS**

- Good polishing effect.
- Controls common types of fouling for a period up to 36 months depending on sailing pattern, water temperature, and system applied.
- Controlled erosion rate to give effective protection in accordance with the specified film thickness and smoothing of surface.
- Improved protection against algae and slime fouling.
- Compatible with a wide range of anticorrosive bottom systems.
- Can be used where the use of organotin compounds is restricted.
- EPA Registration # 11350-

**COLOR AND GLOSS**

Redbrown - flat

**BASIC DATA AT 66°F (20°C)**

Data varies slightly with color

Mass density	approximately 16.9 lbs/gal (1.92 kg/ltr)
Solids contents by volume	approximately 59%
VOC (before thinning)	3.1 lbs/gal (370 g/ltr)
Theoretical spreading rate @ 1 MDFT	930 ft <sup>2</sup> /gal. (22.8 m <sup>2</sup> /ltr)
Recommended dry film thickness	2.5 – 6.0 mils (65µm – 150 µm) per coat depending on system. (see page 2)
Touch dry after	1 hour
Overcoating interval	minimum 6 hours maximum 6 months
Launching interval	8 hours
Shelf life (cool and dry place)	subject to reinspection after 6 months (batch numbers are embossed on lids of 1 gallon cans and stamped on sides of 5 gallon pails)
Flash point (T.C.C.)	102°F (39°C)
Ordering data	available in 1 gallon and 5 gallon containers

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(12/01)

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P.O. BOX 816, HARVEY, LA 70059  
(800) 221-7978 (504) 347-4321  
FAX (504) 341-9120



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**INSTRUCTION FOR USE**

**STEEL SURFACES:**

- 5294 Sigmplane Ecol HA Antifouling may be applied over properly prepared and primed steel surfaces.
- Bare steel surfaces should be blasted to a Near White Metal Blast as defined by NACE No. 2/SSPC-SP10 before application of one of the recommended Sigma primers.
- The primers recommended for use over the blasted steel areas can be found in system sheet 3101US.

**FIBERGLASS SURFACES:**

- 5294 Sigmplane Ecol HA Antifouling may be applied over properly prepared and primed fiberglass surfaces.
- Previously painted fiberglass surfaces should be sanded to remove the existing coating and primed with Sigma's 7417US Sigma EP Universal Primer followed by a coat of Sigma Epoxy Coating TCC (5480) before application of 5294 Antifouling.
- New fiberglass surfaces present a special problem because of Gel Coats and Mold Release agents, which are used in forming the fiberglass.
- A thorough washing and scrubbing of all new Fiberglass surfaces should be done using a solvent combination of xylene and methyl ethyl ketone before attempting to prime.
- After solvent washing, the new fiberglass surface should then be sanded to provide an anchor pattern before application of Sigma's 7417US Sigma EP Universal Primer.

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antifouling system		
dry dock intervals	no. of coats	dft per coat
up to 12 months	1	4.0 mils (100 µm)
up to 18 months	2	3.0 mils ( 75 µm)
up to 24 months	2	4.0 mils (100 µm)
up to 36 months	2	5.0 mils (125 µm)

SIGMA COATING MAY BE CONTACTED FOR ALTERNATE OR ADDITIONAL PRIMER RECOMMENDATIONS.



# SIGMAPLANE ECOL HA ANTIFOULING

5294

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## APPLICATION SPECIFICATIONS

- Sigmaplane Ecol HA Antifouling may be applied by Airless or Conventional spray techniques.
- Before using power agitate to a uniform consistency using a "squirrel cage" type-mixing blade.
- Equipment for spray application should be selected from the recommended list provided on the next page.
- Additional details may be obtained by contacting Sigma Coatings.

### AIRLESS

Recommended thinner	21-06 (Flash point 80°F (27°C))		
Volume of thinner	0-4%		
Manufacturer	<u>Graco</u>	<u>Binks</u>	<u>DeVilbiss</u>
Gun model	205-591	Model 500	JGN-501
Pump	Bulldog	Mercury 5C	QFA-519

Hose should be 3/8" I.D. minimum, but a 1/4" I.D. whip end section may be used for ease of application. A maximum length of 100 feet is suggested. Best results will be obtained using a 0.017" - 0.021" tip at 1700 - 2400 p.s.i.

### CONVENTIONAL SPRAY

Recommended thinner	21-06 (Flash point 80°F (27°C))	
Volume of thinner	0-4%	
Manufacturer	<u>DeVilbiss</u>	<u>Binks</u>
Gun model	MBC or JGA	#18 or #62
Tip - air cap combination	704E	66PE

Fluid hose should be 3/8" I.D. with a maximum length of 50 feet. Pot should always have dual regulation and be kept at same elevation as the spray gun.

**NOTE:** Nylon or Teflon type packings are available from pump manufacturer and are highly recommended. Reversible tips are suggested.

**NOTE:** Other equipment may be suitable. Contact the Sigma Technical Service Department for recommendations.

### BRUSH/ROLLER (for touch-up only)

Recommended thinner	21-06 (Flash point 80°F (27°C))
Volume of thinner	0-4%

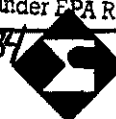
### CLEANING SOLVENT (12/01)

21-06

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**SAFETY PRECAUTIONS**

This product is offered for sale and use only to PROFESSIONALLY TRAINED INDUSTRIAL PERSONNEL. It is NOT FOR RESIDENTIAL USE. This product contains flammable solvents and/or other hazardous chemical ingredients and must be used with caution. Observe all health and safety precautions as listed on the Material Safety Data Sheet during storage, handling, application, drying and disposal. DO NOT ATTEMPT TO USE THIS PRODUCT WITHOUT CONSULTING THE CURRENT "MATERIAL SAFETY DATA SHEET". Material Safety Data Sheets are available from the Customer Service Department at Sigma Coatings (504-347-4321).

**Worldwide availability**

While it is the aim of Sigma Coatings to supply the same product on a worldwide basis, slight local modifications can be necessary to comply with legislation or special circumstances. In such situations an alternative product data sheet is published.

**Limitation of Liability** - The information in this data sheet is based upon laboratory tests we believe to be accurate and is intended for guidance only. All recommendations or suggestions relating to the use of the products made by Sigma Coatings, whether in technical documentation, or in response to a specific enquiry, or otherwise, are based on data which to the best of our knowledge are reliable. The products and information are designed for users having the requisite knowledge and industrial skills and it is the end-user's responsibility to determine the suitability of the product for its intended use.

Sigma Coatings has no control over either the quality or condition of the substrate, or the many factors affecting the use and application of the product. Sigma Coatings does therefore not accept any liability arising from loss, injury or damage resulting from such use or the contents of this data sheet (unless there are written agreements stating otherwise).

The data contained herein are liable to modification as a result of practical experience and continuous product development.

This data sheet replaces and annuls all previous issues and it is therefore the user's responsibility to ensure that this sheet is current prior to using the product.

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