

TME-1 11350-31

104

US ENVIRONMENTAL PROTECTION AGENCY  
OFFICE OF PESTICIDES PROGRAMS  
REGISTRATION DIVISION (TS 767)  
WASHINGTON, DC 20460

EPA REGISTRATION NO.

DATE OF ISSUANCE

11350-31

SEP 30 1992

TERM OF ISSUANCE

NOTICE OF PESTICIDE:  REGISTRATION  
 REREISTRATION

(Under the Federal Insecticide, Fungicide,  
and Rodenticide Act, as amended)

NAME OF PESTICIDE PRODUCT

5284 RD Sigmaplane Ecol  
Antifouling 516 Redbrown

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Sigma Coatings  
Division of Fina Oil and Chemical  
3300 River Road  
Harvey, LA 70058

NOTE: Changes in labeling formula 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 U.S. 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.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this 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/cite all data required for registration/reregistration 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 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 No. 11350-31".
- b. The submitted data indicates that the signal word is "DANGER" and not "WARNING". Change the Technical Data Sheet accordingly.
- c. Delete all references to "Tin Free" from the Technical Data Sheet.
- d. Use your complete and correct product name throughout the text of the Technical Data Sheet.

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

DATE

- e. Revise the precautionary statement of the Technical Data Sheet to read as follows:

DANGER. Corrosive. Causes irreversible eye damage. Harmful if absorbed through skin. Due to corrosive nature, may be harmful or fatal if swallowed. Avoid contact with skin, eyes, and clothing. Wear goggles or face shield when handling. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

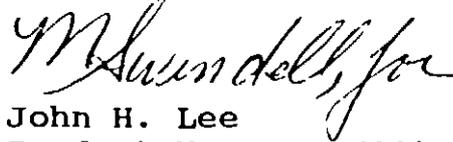
3. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

4. Submit a One Month Accelerated Storage Stability (50° C) study within two months of the date of this notice, and a One Year Storage Stability Study within fifteen months of the date of this notice on your end-use product.

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,



John H. Lee  
Product Manager (31)  
Antimicrobial Program Branch  
Registration Division (H7505C)

Enclosures

2121

11350-31

349

ACCEPTED  
with COMMENTS  
to EPA Letter Dated:

SF 30 1992

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the Pesticide  
registered under EPA Reg. No.  
11350-31

CENTER PANEL

**5284 RD**  
**SIGMAPLANE ECOL**  
**ANTIFOULING 516 REDBROWN**

ACTIVE INGREDIENTS, CUPROUS OXIDE ..... 40.9%  
INERT INGREDIENTS ..... 59.1%  
100.0%

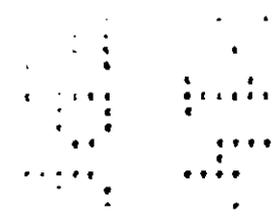
**KEEP OUT OF REACH OF CHILDREN**

**DANGER**

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY  
STATEMENTS

**FOR COMMERCIAL USE ONLY**

**SIGMA COATINGS 1401 DESTREHAN AVE. HARVEY, LA 70058**  
**A DIVISION OF FINA OIL AND CHEMICAL COMPANY**



LEFT SIDE PANEL

ACCEPTED  
with COMMENTS  
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11350-31

PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS

**DANGER**

Corrosive. Causes irreversible eye damage. Harmful if absorbed through skin. Due to corrosive nature, may be harmful or fatal if swallowed. Avoid contact with skin, eyes and clothing. Wear goggles or face shield when handling. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

While spraying and/or sanding lead surface, wear a mask or a respirator jointly approved by The Mining Enforcement And Safety Administration and The National Institute For Occupational Safety And Health.

STATEMENT OF PRACTICAL TREATMENT

- IF IN EYES: Flush with plenty of water. Call a physician.
- 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.
- IF ON SKIN: Wash with plenty of soap and water. Get medical attention.

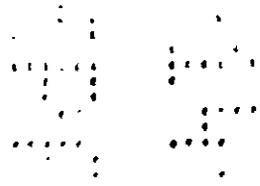
ENVIRONMENTAL HAZARDS

This material is toxic to fish. Do not apply directly to water by cleaning of equipment or disposal of wastes. Do not allow chips and dust generated during paint removal to enter water. Dispose of paint debris in an approved landfill.

PHYSICAL OR CHEMICAL HAZARDS

FLAMMABLE: Keep away from heat and open flame.

EPA EST. NO. 11350 - LA - 1  
EPA REG. NO. 11350 -GR



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11350-31

RIGHT SIDE PANEL

## DIRECTIONS FOR USE

Refer to Sigma's Technical Data Sheet on 5284  
Sigmaplane Ecol Antifouling 516 RedBrown for  
complete directions before using.

**GENERAL DIRECTIONS:** For use on metal 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 5284. 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.

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

**FOR USE IN COMMERCIAL OR GOVERNMENT  
SHIPYARDS ONLY.**

### STORAGE AND DISPOSAL

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

### PESTICIDE DISPOSAL

Pesticide wastes are toxic. 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 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 a sanitary landfill or by other Approved State and Local procedures.

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



# SIGMA COATINGS

5284  
SIGMAPLANE ECOL  
ANTIFOULING 516

(SIGMA COATINGS, DIVISION OF FINA OIL & CHEMICAL; P.O. BOX 2159, DALLAS, TX. 75221)

## TECHNICAL DATA SHEET

### DESCRIPTION

Sigmaplane Tin Free Antifouling is a high build, self polishing antifouling with cuprous oxide as the active ingredient.

### PRINCIPAL CHARACTERISTICS.

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11350-31

- Controls common types of fouling for a period of 24 - 30 months depending on sailing pattern, water temperature, and system applied.
- Controlled polishing rate to give effective protection in accordance with the specified film thickness.
- 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 and Burgundy - Low Sheen

### BASIC DATA AT 68°F (20°C)

Weight per gallon (U.S.)	16.6 pounds (1.99 kg/ltr)
Solids content by volume	48% ± 2%
Theoretical coverage @ 4 MDFT	770 ft <sup>2</sup> /gal (18.9 m <sup>2</sup> /ltr)
Recommended dry film thickness	2.5 - 4.0 mils (65 - 100 microns) per coat, depending on system. (See page 3)
Drying time (Dust Dry)	1 hour
Min. interval before overcoating	6 hours
Max. interval before overcoating	No limitation
Min. interval before launching	8 hours
Ordering information	Available in 1 gal. and 5 gal. containers.
Shelf life (cool & dry place)	Subject to reinspection after 12 months
(Batch numbers are embossed on lids of 1 gallon cans and stamped on sides of 5 gallon pails.)	
Flashpoint (T.C.C.)	75°F (24°C)

### DIRECTIONS FOR USE

#### AREAS OF USE

Sigma's # 5284 should be used only over properly prepared and primed surfaces as described under "SURFACE PREPARATION" in this Technical Data Sheet.

(07/91)

SIGMA COATINGS / P.O. Box 816 / Harvey, LA 70059 / (504) 347-4321

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SURFACE PREPARATION

**STEEL SURFACES:** 5284 Sigma Tin Free 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 SSPC-SP10 before application of one of the recommended Sigma primers. The primers recommended for use over the blasted steel areas are the following:

<u>PRODUCT</u>	<u>RECOMMENDED DRY FILM THICKNESS</u>
1. # 7472 Sigma TCN-300 Brown	5 Mils
# 7479 Sigma TCN Tiecoat	5 Mils
2. # 7477 Sigma EP TCP Aluminum	5 Mils
# 7476 Sigma EP TCP-(Color)	5 Mils
3. # 7415 Sigma EP Universal Primer	2 Mils
# 3304 Tarpon Extra Build Coal Tar Epoxy	16 Mils
4. # 7318 Sigmachlor Primer Lt.	3 Mils
# 7318 Sigmachlor Primer Dk.	3 Mils
# 7318 Sigmachlor Primer Lt.	3 Mils
5. # 7415 Sigma EP Universal Primer	2 Mils
# 7343 Sigmavinyl Primer Lt.	3 Mils
# 7343 Sigmavinyl Primer Dk.	3 Mils
# 7343 Sigmavinyl Primer Lt.	3 Mils
# 3252 Sta-Tuf Primer Green	4 Mils
# 3251 Sta-Tuf Top Coat Haze Grey	3 Mils
# 3200 Series Sta-Tuf Top Coat	3 Mils

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11350-31

In all cases the last coat of the anticorrosive system must be allowed to dry 12 to 16 hours before the application of # 5284 Antifouling. Maximum intervals which may be allowed before application of # 5284 Antifouling are as follows:

# 7479 Sigma TCN Tiecoat	48 Hours
# 7476 Sigma EP TCP	24 Hours
# 3304 Tarpon Extra Build Coal Tar Epoxy	24 Hours
# 7318 Sigmachlor Primer Lt.	No Limitations
# 7343 Sigmavinyl Primer Lt.	48 Hours
# 3200 Series Sta-Tuf Top Coat	24 Hours

**FIBERGLASS SURFACES:** 5284 Sigma Tin Free 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 7415 Sigma EP Universal Primer before application of # 5284 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 # 7415 Sigma EP Universal Primer.

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ANTIFOULING SYSTEM

Drydock Intervals	No. of Coats	DFT per Coat
Up to 12 Months	1	4.0 Mils (100 Microns)
Up to 18 Months	2	2.5 Mils ( 65 Microns)
Up to 24 Months	2	3.0 Mils ( 75 Microns)

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

APPLICATION SPECIFICATIONS

Sigma's # 5284 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 this page. Additional details may be obtained by contacting Sigma Coatings.

Conventional Spray

Manufacturer:	DeVilbiss	Binks
Gun Model:	MBC or JGA	#18 or #62
Tip - Aircap 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 spray gun.

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Airless  
Model:  
Pump:

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11350-31**

<u>Graco</u>	<u>Binks</u>	<u>DeVilbiss</u>
205-591	Model 500	JGN-501
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 .017" - .021" tip at 1700 - 2400 p.s.i.

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.

THINNING REQUIREMENTS

Recommended Thinner:	# 21-06
Airless Spray:	0 - 5%
Conventional Spray:	0 - 10%
Roller & Brush (for touch up only):	0 - 5%
Clean-up thinner:	# 21-06

129

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**SAFETY PRECAUTIONS**

See Material Safety Data Sheet # 5284RD or # 5284BG.

**CAUTION:** Contains flammable solvents. Keep away from sparks and open flames. Use only grounded explosion proof equipment in accordance with the National Electrical Code. Workmen must use nonferrous tools, wear conductive, and nonsparking shoes in areas where explosion hazards exist. In confined areas workmen must wear fresh airline respirators, protective clothing, and gloves. Avoid contact with skin, breathing of vapor, or spray mist ingestion. Keep out of reach of children.

DO NOT USE THIS PRODUCT unless workmen have read and understood the Material Safety Data Sheet for this product.

**WARNING!** *DANGER*

Causes eye irritation. Harmful if absorbed through the skin. Avoid contact with skin, eyes, or clothing. Wear protective clothing such as gloves, long-sleeved cotton shirt, long pants, and hat. May be fatal if swallowed or inhaled. Do not breathe dust, vapor, or spray mist. Remove contaminated clothing and wash before reuse. Wash thoroughly with soap and water after handling.

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