

U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (7505C) 1200 Pennsylvania Ave., NW Washington, D.C. 20460 EPA Reg. Number 100-1204

Date of

FEB 1 8 2005

Term of Issuance:

Conditional

Name of Pesticide Product:

Avicta 500 FS

NOTICE OF PESTICIDE:

x Registration Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Syngenta Crop Protection, Inc. PO Box 18300 Greensboro, NC 27419

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 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 when the Agency requires all registrants of similar products to submit such data.
- 2. Make the following label changes before you release the product for shipment:
 - a. Revise the EPA Registration Number to read, "EPA Reg. No. 100-1204."
- 3. Submit studies to support the following data gaps.

Xlin- Millert

- a. one year storage stability (830.6317) due within 18 months
- b. corrosion characteristics (830.6320) due within 18 months
- c. either a radiolabel uptake study on cotton or field trial data in cotton to show residues resulting from a combination of seed treatment and maximum foliar applications to cotton due within 2 years
- d. developmental neurotoxicity study in progress; due December, 2005
- e. 28-day inhalation study (follow 90-day protocol) due within 18 months
- 4. Submit two copies of the revised final printed label for the record before you release the product for shipment.

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 copy of the label stamped "accepted with comments" is enclosed for your records.

Signature of Approving Official:

Date:

FEB | 8 2005

Jøhn Hebert, Product Manager Insecticide-Rodenticide Branch Registration Division (7505C)

2/17/05 Draft Booklet Label (cottonseed)

RESTRICTED USE PESTICIDE

Due to toxicity. For sale to and use only by certified applicators or persons under their direct supervision and only for those uses covered by the certified applicator's certification.

Avicta™ 500 FS

Nematicide Seed Treatment for Control of Nematodes in Cotton

For use in Syngenta-certified seed treatment facilities only. Not for use in hopper box, planter box, slurry box, or other farmer-applied applications.

Active Ingredient:

Abamectin (CAS No. 65195-56-4 and No. 65195-55	-3)46.3%*
Other Ingredients:	53.7%
Total:	100.0%

^{*}Contains 4.17 lbs. abamectin per gal.

KEEP OUT OF REACH OF CHILDREN.



POISON (red type)

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See additional precautionary statements and directions for use in booklet.

EPA Reg. No. 100-XXXX EPA Est. XXXX

SCP XXXX-L(draft-c)

Net Contents

ACCEPTED with COMMENTS In EPA Letter Dated: FEB 1 8 2005

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

	FIRST AID
If inhaled	 Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give
	artificial respiration, preferably by mouth-to-mouth, if possible.
	Call a poison control center or doctor for further treatment advice.
If swallowed	Call 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 the poison control center or doctor.
	Do not give anything by mouth to an unconscious person.
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.
lf on skin or	Take off contaminated clothing.
clothing	Rinse skin immediately with plenty of water for 15-20 minutes.
	Call a poison control center or doctor for treatment advice.

NOTE TO PHYSICIAN

Early signs of intoxication include dilation of pupils, muscular incoordination, and muscular tremors. Toxicity following accidental ingestion of this product can be minimized by early administration of chemical adsorbents (e.g., activated charcoal).

If toxicity from exposure has progressed to cause severe vomiting, the extent of resultant fluid and electrolyte imbalance should be gauged. Appropriate supportive parental fluid replacement therapy should be given, along with other required supportive measures (such as maintenance of blood pressure levels and proper respiratory functionality) as indicated by clinical signs, symptoms, and measurements.

In severe cases, observations should continue for at least several days until clinical condition is stable and normal. Since abamectin is believed to enhance GABA activity in animals, it is probably wise to avoid drugs that enhance GABA activity (barbiturates, benzodiazepines, valproic acid) in patients with potentially toxic abamectin exposure.

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

HOT LINE NUMBER

For 24-Hour Medical Emergency Assistance (Human or Animal)
Or Chemical Emergency Assistance (Spill, Leak, Fire or Accident)
Call

1-800-888-8372

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals



DANGER / PELIGRO

POISON (red type)

Fatal if inhaled. Do not breathe vapors. May be fatal if swallowed. Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Remove and wash contaminated clothing before reuse. Avicta 500 FS is to be used in seed treatment equipment with closed-transfer systems only.

The following personal protective equipment and clothing are required when using this product:

Personal Protective Equipment

I. Seed Treatment Workers

- A. Workers involved with treating the seed (e.g. connecting and disconnecting hoses and transfer pumps, mixing, equipment calibration, etc.) must wear:
 - Chemical resistant gloves
 - Protective eyewear
 - Coveralls over long sleeved shirt and long pants
 - Chemical-resistant apron
 - Shoes and socks

B. Baggers and Bag Sewers must wear:

- Dust/mist filtering respirator (NIOSH-approved respirator with any N, R, P, or HE filter)
- Long sleeved shirt and long pants
- Shoes and socks

C. Workers involved with the clean up and maintenance of seed treatment equipment must wear:

- Chemical resistant gloves
- Protective eyewear
- Respirator with an organic-vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approved) or a canister approved for pesticides (MSHA/NIOSH-approved) or a NIOSH-approved respirator with an organic vapor (OV) cartridge or canister with any N, R, P, or HE prefilter
- Chemical-resistant coveralls over long sleeved shirt and long pants
- Shoes and socks

II. Multiple Task Workers must wear:

(Multiple task workers perform multiple tasks in one day such as mixing, product application, bagging, bag sewing, and clean up)

- Chemical resistant gloves (when handling treated seeds and equipment cleanup)
- Protective eyewear (when treating seed and during clean-up)
- Dust/mist filtering respirator (dust mask)
- · Long sleeved shirt and long pants
- Chemical-resistant coveralls over long sleeved shirt and long pants (required when performing seed treatment equipment clean-up procedures)
- Shoes and socks

Environmental Hazards

This pesticide is toxic to fish and wildlife. Exposed treated seeds may be hazardous to wildlife. Do not apply this product directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash water.

Note: Seed treated with this product must be visually identifiable from untreated seed by the use of an approved colorant or dye to prevent accidental use of treated seed as food for man or feed for animals. Refer to 21 CFR, Part 2.25. Any colorant or dye added to treated seed must be cleared for use in accordance with 40 CFR, Part 180.1001. Refer to the section on this label **SEED BAG LABEL REQUIREMENTS** for language that must appear on the label that is attached to the bag of treated seed.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product should be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, Inc. or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of the product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and Buyer and User assume the risk of any such use. SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

IT IS SYNGENTA'S AND SELLER'S INTENTION THAT in no event shall SYNGENTA or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

DIRECTIONS FOR USE

RESTRICTED USE PESTICIDE

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

NOTE: Only for use in Syngenta-certified seed treatment facilities. Not for use in hopper box, planter box, slurry box, or other farmer-applied applications.

GENERAL INFORMATION

To provide cotton seedlings early season protection from nematode damage, Avicta 500 FS may be applied to cottonseed. Apply Avicta 500 FS as a water-based slurry utilizing standard slurry seed treatment equipment that will provide uniform seed coverage. Uneven or incomplete seed coverage may not give the desired level of nematode control.

NOTE: Treatment of highly mechanically scarred or damaged seed, or seed known to be of low vigor and poor quality may result in reduced germination and/or reduction of seed and seedling vigor. Conduct germination tests on a representative sample of the seed lot before committing the total seed lot to a selected seed treatment. Because seed quality and seed storage conditions are beyond the control of Syngenta, no claims are made to guarantee the germination of carry-over seed or propagating material for all crops.

SEED BAG LABEL REQUIREMENTS

The Federal Seed Act requires that bags containing treated seeds shall be labeled with the following statements:

- This seed has been treated with abamectin nematicide.
- Do not use treated seed for feed, food, or oil purposes.

In addition, the U.S. Environmental Protection Agency requires the following statements on bags containing cottonseed treated with Avicta (abamectin) 500 FS:

- Store away from food and feedstuffs.
- Do not allow children, pets or livestock to have access to treated seeds.
- Wear long-sleeved shirt, long pants, and protective gloves when handling treated seed.
- Treated seed must be planted into the soil at a depth greater than 1 inch.
 Treated seeds exposed on soil surface may be hazardous to wildlife. Cover or

collect treated seeds that are spilled during loading and in areas such as row ends.

- Dispose of all excess treated seed by burying seed away from bodies of water.
- Do not contaminate bodies of water when disposing of planting equipment wash water
- Dispose of seed packaging in accordance with local requirements.
- Plant Avicta 500 FS-treated cottonseed based upon the local planting dates and soil temperatures that are recommended by your state agricultural extension agent. In areas with a history of high nematode populations, a soil fumigant is recommended.

MIXING AND APPLICATION INSTRUCTIONS

NOTE: Always treat seed in a well-ventilated area. Refer to the **Precautionary Statements** section of this label for personal protective equipment requirements and other safety precautions.

Important:

- Avicta 500 FS should be thoroughly recirculated in its original container before using.
- Thoroughly mix the recommended amount of Avicta 500 FS and other seed treatment products desired with the amount of water required for the slurry treater and the dilution rate.
- Consult the Syngenta Seed Treatment representative or the manufacturer of the application equipment you plan to use regarding the suitability of this application and equipment calibration and operating instructions.
- Prepare no more mixture than is needed for the immediate operation.
- Use an EPA-approved dye or colorant that imparts an unnatural color to the seed.
- Store treated seed away from feed and foodstuffs.

Avicta 500 FS Alone:

Mixing Instructions:

- 1. To dispense Avicta 500 FS into a mix tank, first attach a pump with fittings (example: Micro Matic) that match the fittings on the Avicta 500 FS container.
- 2. Recirculate product. Recirculation time should be calculated based upon the ability of the pump to completely recirculate the volume of the tank 5-10 times within a 30-minute time period.
- 3. After the initial recirculation, a short recirculation period of 5 minutes per day is recommended.

- 4. Attach the dispensing hose to a dry-lock type of fitting that is permanently attached to the mix tank lid.
- 5. Add $\frac{1}{4}$ of the required amount of water to the mix tank.
- 6. With the agitator running, add the Avicta 500 FS to the tank.
- 7. Continue agitation while adding the remainder of the water.
- 8. Begin application of the solution after the Avicta 500 FS has completely dispersed into the mix water.
- 9. Maintain agitation until all of the mixture has been applied.

Avicta 500 FS + Tank Mixtures:

If using Avicta 500 FS in a tank mixture with other seed treatment products, follow all directions for use, crops/sites, dilution ratios, precautions, and limitations that appear on the tank mix partner label. Follow the most restrictive label precautions and limitations and do not exceed any label dosage. Do not mix this product with any product that prohibits such mixing.

- A. For Early Season Insect Control in Cotton
 - To control early season insect pests in cotton, apply Avicta 500 FS with Cruiser® 5FS. Use Cruiser 5FS at a rate of 0.30-0.34 mg. active ingredient per seed, and follow all directions and precautions on the Cruiser 5FS label.
- B. For Early Season Disease Control in Cotton
 - To control early season diseases in cotton, apply Avicta 500 FS with Dynasty™ CST. Follow all directions and precautions on the Dynasty CST label.

C. Compatibility

Before mixing Avicta 500 FS with other seed treatment products test the compatibility before use by conducting a compatibility test:

- Thoroughly mix all intended seed treatments with the appropriate amount of water well in a clear glass container and allow the mixture to sit for one hour.
- 2) Then remix and observe for incompatibility.

D. Tank Mixing Instructions

- 1) Add ¹/₂ of the required water to the mix tank and turn on the agitation. Mechanical agitation is preferred.
- 2) If using wettable powders and/or products in water-soluble packaging, add water-soluble packages first to clean water and allow them to completely disperse before adding Avicta 500 FS or other products.

- 3) Allow each tank mix partner to completely disperse before adding the next product.
- 4) Add the remaining amount of water and agitate.5) Maintain agitation until the entire slurry mixture has been used.

Application Rate - Avicta 500 FS Alone

	Amount of Abamectin per Seed*	Instructions
Cottonseed	0.1 - 0.15 mg.	To provide early season protection for cotton seedlings against nematodes, apply Avicta 500 FS to cottonseed at a rate to achieve 0.1 to 0.15 mg. per seed. *

^{*1} fl. oz. of Avicta 500 FS contains 14.79 grams of abamectin and the typical density of Avicta 500 FS is 9.01 lbs./gal.

STORAGE AND DISPOSAL

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

Pesticide Storage

Store in a cool, dry place.

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

Non-Returnable Containers:

Triple rinse (or equivalent), then puncture and dispose of in a sanitary landfill or by other procedures allowed by state and local authorities.

Returnable Containers:

Return to a Syngenta-authorized facility for refilling or disposal.

Avicta™, Cruiser®, Dynasty™, and the Syngenta logo are trademarks of a Syngenta Group Company

U.S. Patent No. 4,310,519

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For non-emergency (e.g. current product information) call Syngenta Crop Protection at 1-800-334-9481.

Syngenta Crop Protection, Inc. Greensboro, North Carolina 27409 www.syngenta-us.com

SCP XXXX-L(draft-c)

Avicta 500 FS(draft)-lg-2-17-05 000100-xxxxx.20040402c.avicta500FS.pdf

(Container Label)

RESTRICTED USE PESTICIDE

Due to toxicity. For sale to and use only by certified applicators or persons under their direct supervision and only for those uses covered by the certified applicator's certification.

Avicta™ 500 FS

Nematicide Seed Treatment for Control of Nematodes in Cotton

For use in Syngenta-certified seed treatment facilities only. Not for use in hopper box, planter box, slurry box, or other farmer-applied applications.

Active Ingredient:

Abamectin (CAS No. 65195-56-4 and No. 65195-	55-3)46.3%*
Other Ingredients:	53.7%
Total:	100.0%

^{*}Contains 4.17 lbs. abamectin per gal.

KEEP OUT OF REACH OF CHILDREN.



POISON (red type)

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See additional precautionary statements, PPE, Directions for Use and complete Storage and Disposal in booklet.

EPA Reg. No. 100-XXXX EPA Est. XXXX

SCP XXXX-L(draft-c)

Net Contents

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals



DANGER / PELIGRO

POISON (red type)

Fatal if inhaled. Do not breathe vapors. May be fatal if swallowed. Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Remove and wash contaminated clothing before reuse. Avicta 500 FS is to be used in seed treatment equipment with closed transfer systems only.

	FIRST AID
If inhaled	 Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.
If swallowed	 Call 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 the poison control center or doctor. Do not give anything by mouth to an unconscious person.
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.

NOTE TO PHYSICIAN

Early signs of intoxication include dilation of pupils, muscular incoordination, and muscular tremors. Toxicity following accidental ingestion of this product can be minimized by early administration of chemical adsorbents (e.g., activated charcoal).

If toxicity from exposure has progressed to cause severe vomiting, the extent of resultant fluid and electrolyte imbalance should be gauged. Appropriate supportive parental fluid replacement therapy should be given, along with other required supportive measures (such as maintenance of blood pressure levels and proper respiratory functionality) as indicated by clinical signs, symptoms, and measurements.

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HOT LINE NUMBER

For 24-Hour Medical Emergency Assistance (Human or Animal)
Or Chemical Emergency Assistance (Spill, Leak, Fire or Accident)
Call
1-800-888-8372

Environmental Hazards

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Note: Seed treated with this product must be visually identifiable from untreated seed by the use of an approved colorant or dye to prevent accidental use of treated seed as food for man or feed for animals. Refer to 21 CFR, Part 2.25. Any colorant or dye added to treated seed must be cleared for use in accordance with 40 CFR, Part 180.1001. Refer to the section in the attached booklet **SEED BAG LABEL REQUIREMENTS** for language that must appear on the label that is attached to the bag of treated seed.

Container Disposal

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Triple rinse (or equivalent), then puncture and dispose of in a sanitary landfill or by other procedures allowed by state and local authorities.

Returnable Containers:

Return to a Syngenta-authorized facility for refilling or disposal.

Avicta™ and the Syngenta logo are trademarks of a Syngenta Group Company

U.S. Patent No. 4,310,519

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Syngenta Crop Protection, Inc. Greensboro, North Carolina 27409 www.syngenta-us.com

SCP XXXX-L(draft-c)

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Chronology of Label Changes

April 2, 2004 – Initial submission label (limited to cottonseed only)
July 27, 2004 – added long-sleeved shirt and long pants to grower PPE, added minimum planting depth for seed to ensure protection of wildlife. Revised warranty statement. Revised container label.

Feb. 17, 2005 - Added Restricted Use box and statement per EPA