09/29/9005





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

EPA Reg. Number: 100-1211

Date of 9/29/05

Term of Issuance:

Conditional

Name of Pesticide Product:

Avicta 400 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: Changestin labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division phor 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. 100-1211."
- 3. Submit studies to support the following data gaps.
 - a. one year storage stability (830.6317) due within 18 months
 - b. corrosion characteristics (830.6320) 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 y	our records.
Signature of Approving Official:	Date:
/3 /	9/29/05
/ '	9/29/03
Thomas C. Harris	
Insecticide-Rodenticide Branch	
Registration Division (7505C)	

EPA Form 8570-6

(booklet)

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™ 400 FS

Seed Treatment

For Early Season Protection Against Nematodes in Cucurbits and Tomatoes

For use by Syngenta Crop Protection- certified professional vegetable 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)	37.0%*
Other Ingredients:	63.0%
Total:	100.0%

^{*}Contains 3.33 lbs. abamectin per gal.

KEEP OUT OF REACH OF CHILDREN.

ACCEPTED
with COMMENTS
In EPA Letter Dated:
SEP 29 2005



POISON (red type) Under the Federal insecticide, Fungicide, and Rodenticide Act, as amended, for the posticide registered under EPA Reg. No.

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. 100-1211 EPA Est. XXXX

SCP XXXX-L(draft f Avicta 400FS)

____gals.



	FIRST AID	
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 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 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	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 parenteral 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 swallowed. May be fatal if inhaled. Harmful if absorbed through skin. Causes moderate eye irritation. Do not breathe vapors. 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 400 FS must be used only in seed treatment equipment with closed transfer and application systems. The following personal protective equipment and clothing are required when using this product.

Personal Protective Equipment

- 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
 - Long- sleeved shirt and long pants
 - Chemical-resistant apron
 - Shoes and socks
- B. Workers involved with packaging the treated seed (e.g. bagging, bag sewing, filling seed containers) must wear:
 - · Long-sleeved shirt and long pants
 - Shoes and socks
- C. Workers involved with the clean up and maintenance of the seed treatment equipment must wear:
 - Chemical resistant gloves
 - Protective eyewear

- 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.

D. Multiple Task Workers must wear:

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

- Chemical resistant gloves (when handling treated seeds and equipment cleanup)
- Protective eyewear (when treating seed and during clean-up)
- 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
- A NIOSH-approved respirator with an organic vapor (OV) cartridge or canister with any N, R, P, or HE prefilter (when cleaning treating equipment)

Environmental Hazards

This pesticide is toxic to fish and wildlife. Exposed treated seeds may be hazardous to wildlife. 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 CONTAINER LABEL REQUIREMENTS** for language that must appear on the label that is attached to the container 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.

In no event shall SYNGENTA or the 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 OR 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 the 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.

USE RESTRICTIONS:

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

GENERAL INFORMATION

Avicta 400 FS may be applied to the seed of tomatoes and crops in the cucurbits crop group.

When Avicta 400 FS is applied as a seed treatment, it provides protection from various nematodes during the early stages of plant growth and development.

Avicta 400 FS:

- Should be applied to primed or unprimed seed using standard and commonly
 accepted vegetable seed treatment processes that have confirmed efficacy and
 seed safety (i.e. slurry application, film coating, encrusting, or pelleting). Uneven or
 incomplete seed coverage may not give the desired level of early season protection
 against nematode damage. Depending upon the seed size and shape, highly
 specialized batch seed treatment application equipment may be required to insure
 uniform treatment of the seed, to insure safety to the seed, and to meet quality
 standards.
- Must only be mixed with other seed treatments that are approved by the EPA for use on these crops and are compatible with Avicta 400 FS.

NOTE:

- Uneven or incomplete seed coverage may not give the desired level of early season protection against nematode damage. Depending upon the seed size and shape, highly specialized batch seed treatment application equipment may be required to insure uniform treatment. These processes must have confirmed safety to the vegetable seeds and meet quality standards.
- 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 CONTAINER LABEL REQUIREMENTS

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

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

The U.S. Environmental Protection Agency requires the following statements on containers containing vegetable seed treated with Avicta (abamectin) 400 FS:

- Store treated seed away from food and feedstuffs.
- Do not allow children, pets or livestock to have access to treated seeds.
- Wear long pants, long-sleeved shirt and protective gloves when handling treated seed.
- Treated seeds exposed on soil surface may be hazardous to wildlife. Cover or collect treated seeds spilled during loading and planting (such as in 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 or containers in accordance with local requirements.

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.

Maximum Amount Allowed Per Day

The maximum amount of Avicta 400 FS that can be used in a seed treatment facility in one day is limited to 50 gallons of product.

Important:

- 1. Consult the Syngenta Seed Treatment Representative or the manufacturer of the application equipment you plan to use regarding application, equipment calibration, and operating instructions.
- 2. Avicta 400 FS should be thoroughly recirculated/mixed in its original container before using.

- 3. Avicta 400 FS already contains an EPA-approved dye that will impart an unnatural color to the seed; adding additional dye or colorant to the seed treatment mixture is not required.
- 4. If carriers, colorants, or other materials are used when treating the seed, they must be EPA approved and known to be safe to the seed and compatible with Avicta 400 FS.
- 5. Thoroughly mix the recommended amount of Avicta 400 FS and other seed treatment products (i.e. fungicides, insecticides) with the amount of water required for the dilution rate and the slurry treater.
- 6. Prepare no more mixture than is needed for the immediate operation.
- 7. Store treated seed away from feed and foodstuffs.

Applying Avicta 400 FS with compatible fungicides and insecticides

Mixing Avicta 400 FS with fungicides and insecticides in the seed treating system is highly recommended. These fungicides and insecticides must be approved by the EPA for application to the vegetable seed specified in this label and recommended by Syngenta for use with Avicta 400 FS. These products can either be applied to the seed in slurry mixtures or applied in sequence, and applied continuously or in batches.

NOTE:

- Do not mix Avicta 400 FS with any product that prohibits such mixing.
- The combination of Avicta 400 FS and compatible products must be tested to determine safety to all intended varieties or lines of seed.
- Follow all directions for use, crop/sites, dilution rates, precautions and limitations that are prescribed in the label for each product.
- Follow the most restrictive label precautions and limitations and do not apply more than the label permits.

A. Compatibility

Before mixing Avicta 400 FS with other seed treatment products conduct a compatibility test before use.

- 1. Using a clear glass container, thoroughly mix all intended seed treatments with the appropriate amount of water
- 2. Allow the mixture to sit for one hour.
- 3. Remix and observe for incompatibility.



B. Tank Mixing Instructions

- 1. To dispense Avicta 400 FS into a mix tank, first attach a pump with fittings that match the fittings on the closed system container for Avicta 400 FS
- 2. Recirculate the 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 ½ of the required water to the mix tank and turn on the agitation. Mechanical agitation is preferred.
- If using wettable powders and/or products in water-soluble packaging, add watersoluble packages first to clean water and allow them to completely disperse before adding Avicta 400 FS or other products.
- 7. Allow each tank mix partner to completely disperse before adding the next product.
- 8. Add the remaining amount of water and agitate.
- 9. Maintain agitation until the entire slurry mixture has been used.

Applying Avicta 400 FS Alone:

Although mixing Avicta 400 FS with fungicides and insecticides in the seed treating system is highly recommended, Avicta 400 FS may be applied alone as a slurry treatment to the seed specified in this label

Mixing Instructions

- 1. First attach a pump with fittings that match the fittings on the closed system container for Avicta 400 FS.
- 2. Recirculate the product. Recirculation time should be calculated based upon the ability of the pump to completely recirculated 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 ½ of the required water to the mix tank and turn on the agitation. Mechanical agitation is preferred.
- 6. Add Avicta 400 FS.
- 7. Add the remaining amount of water and agitate.
- 8. Maintain agitation until the entire slurry mixture has been used.

Application Rate - Avicta 400 FS

Vegetable Seed	Amount of a.i. per Seed ¹	Instructions
Cucurbits Crop Group Some of the crops in this group are: Cucumbers, all types Edible Gourds Gherkin Melons, all types (such as cantaloupes, casaba,	0.3 - 0.6 mg.	To provide early season protection from nematode damage to seedlings, apply Avicta 400 FS to seed at a rate to achieve 0.3 - 0.6 mg. a.i. per seed. ¹
honeydew, watermelons) Momordica spp. Pumpkins Summer Squash Winter Squash		
Tomatoes		

¹1 fl. oz. of Avicta 400 FS contains 11.81 grams of abamectin and the typical density of Avicta 400 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 rinse water 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.

Container Disposal (Returnable Containers)

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

CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER.

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Protected by U.S. Patent No. 6875727. Other patents pending. ©2005 Syngenta

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 f Avicta 400FS)

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(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™ 400 FS

Seed Treatment

For Early Season Protection Against Nematodes in Curcubits and Tomatoes

For use by Syngenta Crop Protection- certified professional vegetable 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	37.0%*
Other Ingredients:	63.0%
Total:	100.0%

^{*}Contains 3.33 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. 100-1211 EPA Est. XXXX

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		gals.
Net	Contents	

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals



DANGER / PELIGRO POISON

(red type)

Fatal if swallowed. May be fatal if inhaled. Harmful if absorbed through skin. Causes moderate eye irritation. Do not breathe vapors. 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.

FIRST AID	
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.
16 :- 11	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 by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.
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 parenteral 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

Refer to booklet for PPE.



Environmental Hazards

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

CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER.

Avicta™ and the Syngenta logo are trademarks of a Syngenta Group Company Protected by U.S. Patent No. 6875727. Other patents pending ©2005 Syngenta

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

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