

100-1204

10/31/2008

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

10/31/2008

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

re: Avicta 500 FS, EPA Reg. # 100-1204
label amendment submitted 2/2/07, revised 10/31/08
accepted (10/31/08 version)

Dear Ms. Brinkley:

This label amendment adds corn to this product. *Note: The Agency has determined that use as a corn seed treatment would be a non-food use.* The revised labeling (10/31/08 version) submitted in connection with the registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is **ACCEPTABLE**.

Submit two (2) copies of your final printed labeling incorporating the above changes prior to releasing your product for shipment. If the above provisions are not complied with the registration will be subject to cancellation in accordance with FIFRA Section 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

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

Sincerely yours,

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Thomas C. Harris
Biologist
Insecticide Rodenticide Branch
Registration Division (7505C)
Harris.Thomas@epa.gov
(703) 308-9423

enclosure

(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® 500 FS

Nematicide

Seed Treatment for Control of Nematodes in Cotton, Corn Grown for Seed, Field Corn, Popcorn, and Sweet Corn

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.



DANGER / PELIGRO
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. 100-1204
EPA Est. XXXX

SCP 1204-L (draft 10-31-08 corn)

Net Contents

ACCEPTED
OCT 31 2008

**Under the Federal Insecticide, Fungicide,
and Rodenticide Act, as amended, for the
pesticide registered under:**

EPA. Reg. No: 100-1204

FIRST AID	
If inhaled	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	
<p>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).</p> <p>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.</p> <p>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.</p> <p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment.</p>	
<p>HOT LINE NUMBER</p> <p>For 24-Hour Medical Emergency Assistance (Human or Animal) Or Chemical Emergency Assistance (Spill, Leak, Fire or Accident)</p> <p>Call 1-800-888-8372</p>	

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 made of any waterproof material – Category A (e.g., natural rubber \geq 14 mils)
- 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 made of any waterproof material – Category A (e.g., natural rubber \geq 14 mils)
- 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

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 clean-up) made of any waterproof material – Category A (e.g., natural rubber \geq 14 mils)
- 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.

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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 must 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. To the extent permitted by applicable law, 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. To the extent permitted by applicable law: (1) this warranty does not extend to the use of the product contrary to label instructions, or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and (2) Buyer and User assume the risk of any such use. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL..**

To the extent permitted by applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, 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.

PRODUCT INFORMATION

To provide cotton, corn grown for seed, field corn, popcorn, and sweet corn seedlings early season protection from nematode damage, Avicta 500 FS may be applied to the seed of these crops. For cottonseed, Cruiser® 5FS and Dynasty® CST may be mixed with Avicta 500 FS to add early season insect and disease control. For corn, Cruiser 5FS and the fungicides specified in the directions for use may be mixed with Avicta 500 FS to add early season insect and disease control.

Apply Avicta 500 FS and its tank mix products 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, insect, or disease 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 seed or propagating material for all crops.

REQUIRED SEED CONTAINER STATEMENTS

The Federal Seed Act requires that bags containing Avicta 500 FS-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 Avicta 500 FS-treated seed.

- 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 rubber gloves when handling treated seed.
- Plant Avicta 500 FS-treated seed based upon the local planting dates and soil temperatures that are recommended by your state agricultural extension service. In areas with a history of high nematode populations, a soil fumigant is recommended.
- 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.

MIXING AND APPLICATION INSTRUCTIONS

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

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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 $1/4$ - $1/2$ 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 in Tank Mixtures:

If using Avicta 500 FS in a tank mixture with other seed treatment products,

- Confirm that the tank mix product is approved for the uses that are on the Avicta 500 FS label.
- Do not mix this product with any product that prohibits such mixing.
- Follow all directions for use, dilution ratios, precautions, and limitations that appear on the tank mix partner's label.
- Compare all of the product labels and follow the most restrictive label precautions and limitations. Do not exceed the maximum application rate on any of these labels.

A. For Early Season Insect Control:

To add control of early season insect pests, treat seed with a mixture of Avicta 500 FS plus Cruiser 5FS according to the directions in the following table.

SEED	AMOUNT OF CRUISER 5FS PER SEED	INSTRUCTIONS
Cotton (Delinted only)	Refer to the directions for use on corn or cotton seed on the EPA-approved label for Cruiser 5FS.	Follow all directions, precautions and restrictions on the Cruiser 5FS label.
Corn Grown for Seed Field Corn Popcorn Sweet Corn		

B. For Early Season Disease Control:

To add control of early season diseases in cotton and corn, seed can be treated with a mixture of Avicta 500 FS and the fungicides specified in the following table.

SEED	TANK MIX FUNGICIDES	AMOUNT OF FUNGICIDE PER SEED	INSTRUCTIONS
Cotton	Dynasty CST	Refer to the directions for use on cottonseed or corn seed on the EPA-approved labels for each of these fungicide products.	Follow all applicable directions, precautions, and restrictions on each label.
Corn Grown for Seed Field Corn Popcorn Sweet Corn	Apron XL Dynasty Maxim XL		

C. Compatibility

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

- 1) 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 $\frac{1}{2}$ 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

To provide cotton and corn seedlings early season protection against nematodes, Avicta 500 FS may be applied to cottonseed and the seed of corn grown for seed, field corn, popcorn, and sweet corn as specified in the following table.

Seed	Amount of Abamectin per Seed*	Instructions
Cottonseed	0.1 - 0.15 mg.	Apply Avicta 500 FS at the rate needed to achieve the specified amount of active ingredient (thiamethoxam) per seed.
Corn Grown for Seed Field Corn Popcorn Sweet Corn	0.15 – 0.25 mg.	*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. Use the higher rates if seed will be planted in areas where heavy nematode pressure is known to occur.

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.

Apron®, Avicta®, Cruiser®, Dynasty®, Maxim® the Syngenta logo, and the CP FRAME



are trademarks of a Syngenta Group Company

Protected by U.S. Patent No. 6875727. Other patents pending.

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

Manufactured for:
Syngenta Crop Protection, Inc.
P.O. Box 18300
Greensboro, North Carolina 27419-8300

SCP 1204A-L (draft 10-31-08 corn)

AVI 500 FS1204(draft corn 10-31-08)clean-lg-10-31-08 000100-01204.20081031.corn.pdf

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(Non-detachable 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, Corn Grown for Seed, Field Corn, Popcorn, and Sweet Corn

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%*
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Other Ingredients:	53.7%
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Total:	100.0%
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*Contains 4.17 lbs. abamectin per gal.

KEEP OUT OF REACH OF CHILDREN.



DANGER / PELIGRO
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, PPE, and Directions for Use in booklet.

EPA Reg. No. 100-1204
EPA Est. XXXX

SCP 1204A-L (draft 10-31-08 corn)

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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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.

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

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.

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.

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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®, the Syngenta logo and the CP FRAME  are trademarks of a Syngenta Group Company

Protected by U.S. Patent No. 6875727. Other patents pending.

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Manufactured for:
Syngenta Crop Protection, Inc.
P.O. Box 18300
Greensboro, North Carolina 27419-8300

SCP 1204-M(draft 10-31-08 corn)

AVI 500 FS 1204M(draft corn 10-31-08)clean-ig-10-31-08 000100-01204.20081031.corn.pdf