



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

July 13, 2016

Patrick McCain  
Senior Regulatory Product Manager  
Syngenta Crop Protection, LLC  
P.O. Box 18300  
Greensboro, NC 27419

Subject: Label Amendment – Revision of resistance management language, updated PPE,  
Revised Seed Bag Tag and other minor revisions  
Product Name: Avicta Complete Corn 500  
EPA Registration Number: 100-1399  
Application Date: 9/4/2015  
Decision Number: 509105

Dear Mr. McCain:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them. Further, the First Aid statement must be visible on the container.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

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Decision No. 509105

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, you may contact Jacquelyn Marchese at 703-347-0559 or via email at [marchese.jacquelyn@epa.gov](mailto:marchese.jacquelyn@epa.gov).

Sincerely,

A handwritten signature in black ink, appearing to read 'VE', followed by a horizontal line extending to the right.

Venus Eagle, Product Manager 01  
Invertebrate and Vertebrate Branch 3  
Registration Division (7505P)  
Office of Pesticide Programs

Enclosure

(Master)

**RESTRICTED USE PESTICIDE**  
**DUE TO ACUTE INHALATION 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.

<b>GROUP</b>	<b>4A</b>	<b>6</b>	<b>INSECTICIDES</b>	
<b>GROUP</b>	<b>1</b>	<b>4</b>	<b>11</b>	<b>12</b>
<b>FUNGICIDES</b>				

**Avicta® Complete Corn 500**

Nematicide/Insecticide/Fungicide

A Seed Treatment Product That Provides Corn Seedlings Early-Season Protection from Damage Caused by Nematodes and the Listed Insects and Diseases

For use only in Syngenta-certified seed treatment facilities and only in seed treatment equipment with closed transfer and application systems. Not for use in hopper box, planter box, slurry box, or other farmer-applied applications.

Active Ingredients:

Thiamethoxam CAS No. 153719-23-4) .....	23.10%
Abamectin (CAS No. 71751-41-2).....	10.20%
Thiabendazole (CAS No.148-79-8) .....	2.31%
Fludioxonil (CAS No. 131341-86-1) .....	0.30%
Mefenoxam CAS 70630-17-0, 69516-34-3) .....	0.23%
Azoxystrobin (CAS No. 131860-33-8) .....	0.12%

Other Ingredients:	63.74%
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Total: .....	100.00%
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\*1 fluid ounce of Avicta Complete Corn 500 is a flowable concentrate containing 3.52 grams of abamectin, 0.04 grams of azoxystrobin, 0.10 grams of fludioxonil, 0.08 grams of mefenoxam, 0.80 grams of thiabendazole, and 7.97 grams of thiamethoxam

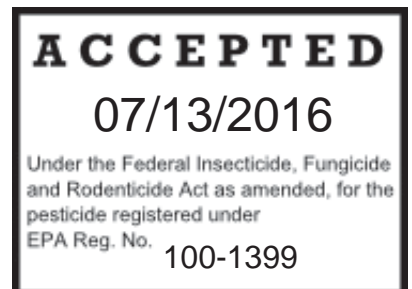
**KEEP OUT OF REACH OF CHILDREN.**

**WARNING/AVISO**

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. 100-1399  
EPA Est.



[Batch Code: \_\_\_\_\_] (For nonrefillables only.)

SCP

\_\_\_\_\_ gallons  
Net Contents

<b>FIRST AID</b>	
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• 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.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
<b>HOT LINE NUMBER</b> For 24-Hour Medical Emergency Assistance (Human or Animal) Or Chemical Emergency Assistance (Spill, Leak, Fire or Accident) Call <b>1-800-888-8372</b>	

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**PRECAUTIONARY STATEMENTS**

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**Hazards to Humans and Domestic Animals**

**WARNING/AVISO**

May be fatal if inhaled or swallowed. Harmful if absorbed through skin. Causes moderate eye irritation. Do not breathe vapor. Avoid contact with skin, eyes, or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

This product must be used only in seed treatment equipment with closed transfer application systems.

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

## **Personal Protective Equipment (PPE)**

### **Seed Treatment Workers**

**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: barrier laminate, butyl rubber  $\geq$  14 mils, nitrile rubber  $\geq$  14 mils, neoprene rubber  $\geq$  14 mils, polyvinyl chloride (PVC)  $\geq$  14 mils, or Viton®  $\geq$  14 mils
- Protective eyewear
- Coveralls worn over long-sleeved shirt and long pants
- Chemical-resistant apron
- Shoes and socks
- NIOSH-approved respirator with any N, R, P filter with NIOSH approval number prefix TC-84A; or a NIOSH approved powered air purifying respirator with HE filter with NIOSH approval number prefix TC-21C

**Workers Filling Seed Containers/Baggers and Bag Sewers must wear:**

- Chemical-resistant gloves made of: barrier laminate, butyl rubber  $\geq$  14 mils, nitrile rubber  $\geq$  14 mils, neoprene rubber  $\geq$  14 mils, polyvinyl chloride (PVC)  $\geq$  14 mils, or Viton  $\geq$  14 mils
- Protective eyewear
- Coveralls worn over long-sleeved shirt and long pants
- Shoes and socks
- NIOSH-approved respirator with any N, R, P filter with NIOSH approval number prefix TC-84A; or a NIOSH approved powered air purifying respirator with HE filter with NIOSH approval number prefix TC-21C

**Workers involved with the clean-up and maintenance of seed treatment equipment must wear:**

- Chemical-resistant gloves (minimum length 12 inches) made of: barrier laminate, butyl rubber  $\geq$  14 mils, nitrile rubber  $\geq$  14 mils, neoprene rubber  $\geq$  14 mils, polyvinyl chloride (PVC)  $\geq$  14 mils, or Viton  $\geq$  14 mils. Important: tape down gloves to the sleeves of the coveralls.
- Protective eyewear
- Chemical-resistant, hooded coveralls worn over long-sleeved shirt and long pants

- Shoes and socks
- NIOSH-approved respirator with an organic vapor (OV) cartridge with a combination N, R, or P filter with NIOSH approval number prefix TC-84A; **OR** NIOSH approved gas mask with an organic vapor canister with NIOSH approval number prefix TC-14G; **OR** a NIOSH approved powered air purifying respirator with organic vapor (OV) cartridge and combination HE filter with NIOSH approval number prefix TC-23C

**Multiple Task Workers must wear:**

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

- Chemical-resistant gloves made of: barrier laminate, butyl rubber  $\geq$  14 mils, nitrile rubber  $\geq$  14 mils, neoprene rubber  $\geq$  14 mils, polyvinyl chloride (PVC)  $\geq$  14 mils, or Viton  $\geq$  14 mils. Important: when performing seed treatment equipment clean-up procedures, gloves must be at least 12 inches long and taped down to the sleeves of the coveralls.
- Protective eyewear
- Long-sleeved shirt and long pants
- When performing seed treatment equipment clean-up procedures, chemical-resistant, hooded coveralls over long-sleeved shirt and long pants are required.
- Shoes and socks
- NIOSH-approved respirator with any N, R, P filter with NIOSH approval number prefix TC-84A; or a NIOSH approved powered air purifying respirator with HE filter with NIOSH approval number prefix TC-21C

**Environmental Hazards**

This pesticide product is toxic to wildlife, freshwater and estuarine/marine fish, oysters and shrimp, and highly toxic to aquatic invertebrates. Runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Treated seeds exposed on the soil surface may be hazardous to birds or other wildlife. Cover or collect seeds spilled during loading. Do not contaminate water when disposing of equipment washwater or rinsate.

**Pollinator Precautions**

Thiamethoxam is highly toxic to bees exposed to direct treatment, and effects may be possible as a result of exposure to translocated residues in blooming crops.

**Groundwater Advisory**

This product contains the active ingredient, mefenoxam, which is known to leach through soil into groundwater under certain conditions as a result of agricultural use. Use of mefenoxam in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

This product also contains the active ingredient azoxystrobin. Azoxystrobin and a degradate of azoxystrobin are known to leach through soil into groundwater under certain conditions as a result of label use. These chemicals may leach into groundwater

if used in areas where soils are permeable, particularly where the water table is shallow. Azoxystrobin also can be persistent for several months or longer.

This product also contains thiamethoxam, which has properties and characteristics associated with chemicals detected in groundwater. Use of thiamethoxam in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

This product also contains fludioxonil, which has properties and characteristics associated with chemicals detected in groundwater. Use of fludioxonil in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

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## **CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY**

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**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, LLC 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.

#### **RESTRICTIONS:**

- Avicta Complete Corn 500 is for use only in Syngenta-certified seed treatment facilities and only in seed treatment equipment with closed transfer and application systems. Use in hopper box, planter box, slurry box, or other farmer-applied applications is not permitted.
- 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 with 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.
- 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 humans 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 153.155(c). Refer to the section on this label **REQUIRED SEED CONTAINER STATEMENTS** for language that must appear on the tag that is attached to the container of treated seed.
- Do not use more than 0.266 lb ai of thiamethoxam per acre per calendar year including all thiamethoxam products and application methods (e.g., seed treatment, soil, foliar).



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## **PRODUCT INFORMATION**

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Avicta Complete Corn 500 is a seed treatment nematicide/insecticide/fungicide for corn grown for seed, field corn, popcorn, and sweet corn. Avicta Complete Corn 500 contains the active ingredients abamectin, azoxystrobin, fludioxonil, mfenoxam, thiabendazole and thiamethoxam. When applied to corn seed, Avicta Complete Corn 500 will provide corn seedlings early season protection from damage caused by nematodes, and the insects and seed and seedling diseases specified in the **Crop Use Directions**.

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## **ROTATIONAL CROP RESTRICTIONS**

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In the event of crop failure or after harvest of corn grown from seed treated with Avicta Complete Corn 500, crops may be replanted according to the following schedule:

Immediate Plantback	Minimum 30-Day Plantback Interval
<p>Alfalfa</p> <p><i>Select Cereal Grains:</i> barley, corn, oat, rye, triticale, and wheat</p> <p>Cucurbit Vegetables Crop Group 9</p> <p>Head and Stem <i>Brassica</i> Crop Subgroup 5A</p> <p>Onion, Dry Bulb</p> <p><i>Select Peas, Dried Shelled:</i> chickpea (garbanzo bean), field pea, lentil, and pigeon pea</p> <p>Root Vegetables (except sugarbeet) Crop Subgroup 1B</p> <p>Soybean</p> <p>Spinach</p> <p>Sweet Potato</p>	<p>Leafy <i>Brassica</i> Greens Crop Subgroup 5B</p> <p><i>Select Cereal Grains:</i> buckwheat, pearl millet, proso millet, rice (dry-seeded), sorghum, teosinte, and wild rice</p> <p>Canola</p> <p>Cotton</p> <p>Fruiting Vegetables Crop Group 8</p> <p>Leafy Vegetables, except <i>Brassica</i> Crop Group 4</p> <p>Legume Vegetables (Succulent or Dried) Crop Group 6</p> <p>Mint: peppermint and spearmint</p> <p>Potato</p> <p><i>Select Oilseeds:</i> borage, crambe, flax seed, mustard seed, and safflower</p> <p>Strawberry</p> <p>Sunflower</p> <p>Tobacco</p> <p>Tuberous and Corm Vegetables Crop Subgroup 1D</p>

- For any other crop, the minimum plant back interval is 120 days from the date the Avicta Complete Corn 500 treated seeds were planted. A cover crop other than the crops listed above that is planted for erosion control or soil improvement may be planted sooner than the 120-day interval; however, the crop may not be grazed or harvested for food or feed.
- Corn forage may not be grazed until 30 days after planting the treated seed.
- For adequate germination, plant treated sweet corn seed during the year that it was purchased; do not carry seed over to the following year.

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## REQUIRED SEED CONTAINER STATEMENTS

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User is responsible for ensuring that the seed container meets all requirements under the Federal Seed Act.

The Federal Seed Act requires that the container of corn seed treated with Avicta Complete Corn 500 must be labeled with the following statements:

- This seed has been treated with abamectin nematicide, thiamethoxam insecticide, and azoxystrobin, fludioxonil, mefenoxam, and thiabendazole fungicides.
- Do not use treated seed for feed, food, or oil purposes.

In addition, the U.S. Environmental Protection Agency requires the following statements on the container of corn seed treated with Avicta Complete Corn 500.

- 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 chemical-resistant gloves when handling treated seed.
- **Groundwater Advisory:** This pesticide product contains the active ingredients mefenoxam and azoxystrobin, which are known to leach through soil into groundwater under certain conditions (where soils are permeable and/or the water table is shallow) as a result of agricultural use. Azoxystrobin also can be persistent for several months or longer.

This product contains thiamethoxam and fludioxonil, which have properties and characteristics associated with chemicals detected in groundwater. Use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

- **Pollinator Precautions:** Thiamethoxam is highly toxic to bees, and effects are possible as a result of exposure to translocated residues in blooming crops.
- Treated seed must be planted into the soil at a depth greater than 1 inch.
- Do not apply neonicotinoid insecticides to the soil or foliage of corn grown from seed treated with Avicta Complete Corn 500.
- Do not use at a rate that will result in more than 0.165 lb of thiamethoxam per acre per calendar year (74.8 g ai/Acre) as a seed treatment application. One seed has been treated with X mg thiamethoxam/seed. Do not use more than

0.266 lb ai of thiamethoxam per acre per calendar year including all thiamethoxam products and application methods (e.g., seed treatment, soil, foliar).

- Do not use at a rate that will result in more than 0.037 lb of abamectin per acre per calendar year (16.5 g ai/Acre) as a seed treatment application. One seed has been treated with 0.22 mg abamectin/seed.
- 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.
- Excess treated seed may be used for ethanol production only if: (1) By-products are not used for livestock feed, and (2) No measurable residues of pesticides remain in ethanol by-products that are used for agronomic practice.
- In the event of crop failure or after harvest of corn grown from seed treated with Avicta Complete Corn 500, crops may be replanted according to the following schedule:

Immediate Plantback	Minimum 30-Day Plantback Interval
<p>Alfalfa</p> <p><i>Select</i> Cereal Grains: barley, corn, oat, rye, triticale, and wheat</p> <p>Cucurbit Vegetables Crop Group 9</p> <p>Head and Stem <i>Brassica</i> Crop Subgroup 5A</p> <p>Onion, Dry Bulb</p> <p><i>Select</i> Peas, Dried Shelled: chickpea (garbanzo bean), field pea, lentil, and pigeon pea</p> <p>Root Vegetables (except sugarbeet) Crop Subgroup 1B</p> <p>Soybean</p> <p>Spinach</p> <p>Sweet Potato</p>	<p>Leafy <i>Brassica</i> Greens Crop Subgroup 5B</p> <p><i>Select</i> Cereal Grains: buckwheat, pearl millet, proso millet, rice (dry-seeded), sorghum, teosinte, and wild rice</p> <p>Canola</p> <p>Cotton</p> <p>Fruiting Vegetables Crop Group 8</p> <p>Leafy Vegetables, except <i>Brassica</i> Crop Group 4</p> <p>Legume Vegetables (Succulent or Dried) Crop Group 6</p> <p>Mint: peppermint and spearmint</p> <p>Potato</p> <p><i>Select</i> Oilseeds: borage, crambe, flax seed, mustard seed, and safflower</p> <p>Strawberry</p> <p>Sunflower</p> <p>Tobacco</p> <p>Tuberous and Corm Vegetables Crop Subgroup 1D</p>

- For any other crop, the minimum plant back interval is 120 days from the date the Avicta Complete Corn 500 treated seeds were planted. A cover crop other than the crops listed above that is planted for erosion control or soil improvement may be planted sooner than the 120-day interval; however, the crop may not be grazed or harvested for food or feed.
- Corn forage may not be grazed until 30 days after planting the treated seed.

In addition, include the following Syngenta statements on containers of corn seed treated with Avicta Complete Corn 500.

- Plant Avicta Complete Corn 500-treated corn seed 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 may be recommended.
- In limited areas birds, such as Sand Hill Cranes, have been known to damage early, developing corn seedlings.
  - Some seed-applied or hopper box-applied bird repellents have been shown to be effective in reducing this damage.
  - In fields where seedling damage is expected, use of an approved bird repellent should be considered.
- For adequate germination, plant treated sweet corn seed during the year that it was purchased; do not carry seed over to the following year.

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## RESISTANCE MANAGEMENT

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<b>GROUP 4A 6 INSECTICIDES</b>
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Avicta Complete Corn 500 contains thiamethoxam, a Group 4A insecticide, and abamectin, a Group 6 insecticide. Thiamethoxam is a systemic insecticide belonging to the neonicotinoid class of chemistry which includes nicotinic acetylcholine receptor (nAChR) agonists. Abamectin belongs to the avermectin class of chemistry which affects nerves and muscles.

Insect populations may contain individuals naturally resistant to Group 4A or 6 insecticides and if used repeatedly in the same fields, then resistant members may eventually dominate the population. Because resistance development cannot be predicted, use sound resistance management strategies established for the crop and use area.

Base seed treatment on an integrated pest management program that includes field sanitation, historical information related to pesticide use, careful selection of pest-tolerant crop varieties, scouting, and management practices which optimize populations of natural enemies of insect pests such as within-field refuge (untreated areas). Sound management programs also consider cultural and biological control practices.

### **In order to maintain susceptibility to these classes of chemistry:**

- Use products at their full, specified doses.
- Use appropriate, well-maintained equipment. Use specified water volumes and apply at optimal temperatures in order to obtain optimal treatment.

- When rate ranges are given, use the higher rate within the listed rate range when insect pressure is expected to be high.
- Avoid using a single active ingredient or mode of action (same insecticide group) exclusively for season long control of insect species with more than one generation per crop season.
- For insect species with successive or overlapping generations, use a treatment window approach. A treatment window is a period of time defined by the stage of crop development and the biology of the pests of concern. Within the treatment window, depending on the length of residual activity, single or consecutive applications may be made using seed, in-furrow, or foliar treatments unless otherwise excluded by product labels. Do not exceed the maximum amount of this insecticide's mode of action allowed per growing season.
- Following a treatment window of this insecticide's mode of action, rotate to a treatment window of effective products with a different mode of action before making additional applications of this insecticide.

If resistance to this product develops in your area, this product or other products with a similar mode of action may not provide adequate control. If poor performance cannot be attributed to improper application or weather conditions, a resistant strain of insect may be present. If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local company representative or agricultural advisor for the best alternative method of control for the crop and use area.

Syngenta encourages responsible product stewardship to ensure effective long term control of the insect pests on this label.

**For additional information on Insect Resistance Management:**

- Contact Syngenta representatives at 1-800-334-9481
- Contact your local Cooperative Extension Service specialist, pest control advisor, or certified crop advisor
- Visit the Insecticide Resistance Action Committee (IRAC) on the web at: <http://www.irc-online.org>

<b>GROUP</b>	<b>1</b>	<b>4</b>	<b>11</b>	<b>12</b>	<b>FUNGICIDES</b>
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Avicta Complete Corn 500 contains thiabendazole, a Group 1 fungicide; mefenoxam, a Group 4 fungicide; azoxystrobin, a Group 11 fungicide; and fludioxonil, a Group 12 fungicide. Thiabendazole belongs to the methyl-benzimidazole carbamate class of chemistry which disrupts  $\beta$ -tubulin assembly in mitosis. Mefenoxam belongs to the phenylamide class of chemistry which interferes with fungal RNA synthesis. Azoxystrobin belongs to the strobilurin class of chemistry which disrupts cellular



respiration and energy generation. Fludioxonil belongs to the phenylpyrrole class of chemistry which interferes with osmotic signal transduction.

Fungal populations may contain individuals naturally resistant to Group 1, 4, 11, or 12 fungicides and if used repeatedly in the same fields, then resistant members may eventually dominate the population. Because resistance development cannot be predicted, the use of this product should conform to sound resistance management strategies such as alternation with fungicides with a different mode of action and/or tank mixes established for the crop and use area.

Use should be based on an IPM program that includes field sanitation, scouting, historical information related to pesticide use, and crop rotation. The IPM program should also consider cultural, biological, and other chemical control practices.

Syngenta encourages responsible product stewardship to ensure effective long term control of the fungal diseases on this label.

**For additional information on Fungicide Resistance Management:**

- Contact Syngenta representatives at 1-800-334-9481
- Contact your local extension specialist or certified crop advisor
- Visit the Fungicide Resistance Action Committee (FRAC) on the web at: <http://www.frac.info>

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**MIXING AND APPLICATION INSTRUCTIONS**

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- Use only in Syngenta certified seed treatment facilities with closed transfer and application systems. Not for use on agricultural establishments in hopper box, planter box, slurry box, or other seed treatment applications at or immediately before planting.
- Consult the Syngenta Seed Care representative or the manufacturer of the application equipment you plan to use regarding the suitability of this application and 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.
- Prepare no more mixture than is needed for the immediate operation.
- Avicta Complete Corn 500 must be thoroughly recirculated in its original container before using. (See **Mixing Instructions**.)

- Apply Avicta Complete Corn 500 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 protection.
- Thoroughly mix the required amount of Avicta Complete Corn 500 and other seed treatment products desired with the amount of water required for the slurry treater and the dilution rate. (See **Avicta Complete Corn 500 in Tank Mixtures.**)
- Use an EPA-approved dye or colorant that imparts an unnatural color to the seed.
- Allow seed to dry before bagging /filling containers, and store treated seed away from food and feed.

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## MIXING AND APPLICATION

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### A. Avicta Complete Corn 500 Alone

#### Mixing and Application Instructions:

1. To dispense Avicta Complete Corn 500 into a mix tank, first attach a pump with fittings (example: Micro Matic) that match the fittings on the Avicta Complete Corn 500 container.
2. Recirculate product. Calculate the recirculation time 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, recirculate for a short period of 5 minutes per day. Attach the dispensing hose to a dry-lock type of fitting that is permanently attached to the mix tank lid.
4. Add  $\frac{1}{4}$ - $\frac{1}{2}$  of the required amount of water to the mix tank.
5. With the agitator running, add the Avicta Complete Corn 500 to the tank.
6. Continue agitation while adding the remainder of the water.
7. Begin application of the solution after the Avicta Complete Corn 500 has completely dispersed into the mix water.
8. Maintain agitation until all of the mixture has been applied.

### B. Avicta Complete Corn 500 in Tank Mixtures

It is the pesticide user's responsibility to ensure that all products used in the tank mixtures are registered for the intended use. Users must follow the most restrictive directions and precautionary language of the products in the mixture (for example, first aid from one product, spray drift management from another).

If using Avicta Complete Corn 500 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 Complete Corn 500 label.
- Do not mix this product with any product that prohibits such mixing.
- Compare all the labels and follow the most restrictive directions for use, dilution ratios, precautions, limitations, and all applicable laws that appear on the tank mix products' labels.
- Do not exceed the maximum application rate on any of these labels.
- Tank mixing Avicta Complete Corn 500 with the insecticide product Cruiser® 5FS, which contains the active ingredient thiamethoxam, will provide protection from damage caused by billbug and corn rootworm. When treating sweet corn seed, tank mixing the fungicide Apron XL®, which contains mefenoxam, will add early-season systemic downy mildew protection for sweet corn seedlings.

### **Tank Mixing and Application 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 Complete Corn 500 or other products.
- 3) Allow each tank mix product 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.

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## **CROP USE DIRECTIONS**

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### **Avicta Complete Corn 500 on Corn Seed -- (Includes corn grown for seed, field corn, popcorn, and sweet corn)**

To provide corn seedlings early-season protection from damage caused by nematodes, and the specified insects and diseases on this label, apply Avicta Complete Corn 500 to corn seed as directed in the **Application** table.

- 1) In order to minimize dust-off and loss of the active ingredients from the treated seed, all corn seed treated with Avicta Complete Corn 500 must receive an application of a dust-reducing agent. Contact Syngenta for specific recommendations to ensure acceptability of the dust-reducing agent with respect to retention of the active ingredients, seed germination and viability, and compatibility with other treatments that might be applied to the seed.
- 2) For adequate germination, plant treated sweet corn seed during the year that it was purchased; do not carry seed over to the following year.

**Table 1. Application –Avicta Complete Corn 500 Alone**

To Protect Corn Seedlings from Damage Caused by These Pests/Diseases	Amount of Avicta Complete Corn 500 to Apply	
	Total Amount of the Six Active Ingredients - Per Seed	Fl Oz of Premix Product Per 100 Lb Seed (cwt) Based on Number of Seeds/Lb
<b>Nematodes</b>	0.784 mg	<b>Field Corn:</b> 11.4 fl oz @ 1800 seeds/lb  <b>Popcorn:</b> 25.2 fl oz @ 4000 seeds/lb  <b>Sweet corn:</b> 20.2 fl oz @ 3200 seeds/lb
<b>Insects:</b>  Black cutworm Chinch bug Corn flea beetle Corn leaf aphid Grape colaspis Seedcorn beetle Seedcorn maggot Southern corn leaf beetle Southern green stinkbug Sugarcane beetle Thrips White grub Wireworm		
<b>Diseases:</b>  Seed-borne and soil-borne fungi that cause decay, damping-off, and seedling blight.  Seed-borne head smut ( <i>Sporisorium reilianum</i> ) Seedling damping-off ( <i>Rhizoctonia</i> spp., <i>Penicillium</i> spp., <i>Pythium</i> spp. and <i>Fusarium</i> spp.)		

Do not use more than 0.266 lb ai of thiamethoxam per acre per calendar year including all thiamethoxam products and application methods (e.g., seed treatment, soil, foliar).

**Table 2. Tank Mix for Protection from Damage Caused by Billbug, Corn Rootworm**

To Protect Corn Seedlings from Damage Caused by These Additional Insects	Amount of Cruiser® 5FS (thiamethoxam) to Apply		Instructions
	Mg Thiamethoxam Per Seed	Fl. Oz. of Cruiser 5FS Per 100 Lb Seed (cwt) Based on Number of Seeds/Lb	
Billbug Corn rootworm (includes Mexican, Northern, Southern, and Western)	0.75 mg	<p><b>Field Corn:</b> 7.6 fl oz @ 1800 seeds/lb</p> <p><b>Popcorn:</b> 16.9 fl oz @ 4000 seeds/lb</p> <p><b>Sweet Corn:</b> 13.5 fl oz @ 3200 seeds/lb</p>	<p>When applied at the rate specified in Table 1, Avicta Complete Corn 500 delivers 0.50 mg of the active ingredient, thiamethoxam, per seed.</p> <p>To protect corn seedlings from billbug and corn rootworm damage, additional thiamethoxam is needed to increase the level of thiamethoxam to a total of 1.25 mg ai/ seed. To achieve this level of thiamethoxam, tank mix Cruiser 5 FS, which contains thiamethoxam, at the rate specified in this table for each type of corn seed.</p>

Do not use more than 0.266 lb ai of thiamethoxam per acre per calendar year including all thiamethoxam products and application methods (e.g., seed treatment, soil, foliar).

**Table 3. Tank Mix for Protection from Damage Caused by Systemic Downy Mildew**

To Protect Corn * Seedlings from Damage Caused by This Additional Disease	Amount of Apron XL® (mefenoxam) to Apply		Instructions
	Mg. Mefenoxam Per Seed	Fl. Oz. of Apron XL Per 100 Lb Seed (cwt) Based on Number of Seeds/Lb	
*Sweet Corn Only			
Systemic downy mildew	0.04 mg	1.18 fl oz @ 3200 seeds/lb	<p>When applied at the rate specified in Table 1, Avicta Complete Corn 500 delivers 0.005 mg of the active ingredient mefenoxam per seed.</p> <p>To protect sweet corn seedlings from early-season systemic downy mildew damage, additional mefenoxam is needed to increase the level of mefenoxam to a total of 0.045 mg ai/seed. To achieve this level of mefenoxam, tank mix Apron XL, which contains mefenoxam, at the rate specified in this table.</p>

**CLEANING SEED TREATMENT EQUIPMENT**

Do not use compressed air hoses to remove the dust from the seed treating equipment or the area around the equipment; use a central vacuum system or a HEPA filter portable vacuum cleaner.

## **STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage or disposal.

### **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 Handling**

#### **Nonrefillable Container. Do not reuse or refill this container.**

Syngenta's authorized agent will pick up the empty container and handle its disposal. Contact Syngenta or its authorized agent to make arrangements for this service and store empty container in a secure area until pick up.

Triple rinse the container as follows: Empty the remaining contents into application equipment or mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other side and tip it back and forth several times. Empty the rinsate into application equipment or mix tank or store rinsate for later disposal. Repeat this procedure two more times. Then contact Syngenta or its authorized agent for disposal.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean-up immediately. Take special care to avoid contamination of equipment and facilities during clean-up procedures and disposal of wastes.

### **CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER!**

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For non-emergency (e.g., current product information) call  
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