



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

April 18, 2016

Teresa S Cox  
Regulatory Production Manager  
Syngenta Crop Protection, LLC  
P.O. Box 18300  
Greensboro, NC 27419

Subject: Notification per PRN 98-10 – Changing product name from A20776E to Mentor EC  
Product Name: Mentor EC  
EPA Registration Number: 100-1562  
Application Date: 3/18/2016  
Decision Number: 515499

Dear Teresa S Cox:

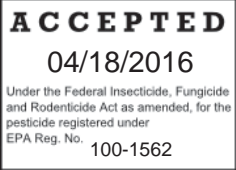
The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The brand name Mentor EC has been added to the product record.

If you have any questions, you may contact Nathan Mellor at 703-347-8562 or via email at [mellor.nathan@epa.gov](mailto:mellor.nathan@epa.gov).

A handwritten signature in black ink, reading "Shaja B. Joyner".

Shaja B. Joyner, Product Manager 20  
Fungicide-Herbicide Branch  
Registration Division 7505P



[MASTER]

GROUP 3 FUNGICIDE

| **A20776E**MENTOR EC

**Fungicide**

For Control of Certain Post-Harvest Diseases of Citrus

Active Ingredient: Propiconazole: (CAS No. 60207-90-1)	9.7%
Other Ingredients:	90.3%
Total:	100.0%

| **A20776E**MENTOR EC is an emulsion concentrate.

| **A20776E**MENTOR EC contains 0.88 pounds of propiconazole per gallon.

**KEEP OUT OF REACH OF CHILDREN.**

**CAUTION**

See additional precautionary statements and directions for use inside booklet.

EPA Reg. No. 100-1562

EPA Est.

\_\_\_\_\_ quarts  
Net Contents

<b>FIRST AID</b>	
<b>If swallowed</b>	<ul style="list-style-type: none"><li>• Call a 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 by a poison control center or doctor.</li><li>• Do not give anything to an unconscious person.</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**

#### **CAUTION**

Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

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

#### **Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Chemical resistant gloves made of any waterproof material.
- Shoes plus socks

#### **User Safety Requirements**

Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

## **User Safety Recommendations**

### **Users should:**

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

## **Environmental Hazards**

This product is toxic to fish and shrimp. Do not apply directly to water or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwater or rinsate. Refer to product labeling for use restrictions to protect endangered species.

## **Physical or Chemical Hazards**

Do not mix or allow coming in contact with oxidizing agents. Hazardous chemical reaction may occur.

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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 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, LLC 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 Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing conditions of sale and limitation of warranty and liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

## DIRECTIONS FOR USE

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

For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

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### PRODUCT INFORMATION

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**FAILURE TO FOLLOW DIRECTIONS AND PRECAUTIONS ON THIS LABEL MAY RESULT IN CROP INJURY, POOR DISEASE CONTROL, OR ILLEGAL RESIDUES.**

**A20776E MENTOR EC** is a broad-spectrum fungicide used to aid in the control of several post-harvest diseases in citrus **in post-harvest treatment facilities**.

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### USE INFORMATION

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Integrated Pest Management

**A20776E MENTOR EC** should be integrated into an overall disease and pest management strategy (IPM) whenever the use of a fungicide is required. Cultural practices known to reduce disease development should be followed. Consult your local agricultural authorities for additional IPM strategies established for your area.

**A20776E MENTOR EC** may be used in State Agricultural Extension advisory (disease forecasting) programs which recommend application timing based on environmental factors favorable for disease development.

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### RESISTANCE MANAGEMENT

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Group	<b>3</b>	Fungicide
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**A20776E MENTOR EC** is in the Group 3 class fungicides. The mode of action of **A20776E MENTOR EC** is as a demethylation inhibitor (DMI) of sterol biosynthesis which results in disruption of membrane structure and function. Fungal pathogens can develop resistance to products with the same mode of action when used repeatedly. Because resistance development cannot be predicted, use of this product should conform to resistance management strategies established for the crop and use area. Consult your local or State agricultural authorities for resistance management strategies that are complementary to those in this label. Resistance management strategies may include rotating and/or tank mixing with products having different modes of action or limiting the total number of applications per season. Syngenta Crop Protection encourages responsible resistance management to ensure effective long-term control of

the fungal diseases on this label. **A20776E MENTOR EC** should not be alternated or tank mixed with any fungicide to which resistance has already developed.

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## MIXING PROCEDURES

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Prepare no more spray mixture than is needed for the immediate operation. Thoroughly clean spray equipment before using this product. Vigorous agitation is necessary to maintain uniformity of the spray mixture. Maintain maximum agitation throughout the spraying operation. **Do not let the spray mixture stand overnight in the spray tank. Flush the spray equipment thoroughly following each use.**

To determine the physical compatibility of **A20776E MENTOR EC** with other products, use a jar test as described below.

**Jar Compatibility Test:** Using a quart jar, add the proportionate amounts of the products to 1 qt. of water or wax/oil emulsion. Add wettable powders and water-dispersible granular products first, then liquid flowables, and emulsifiable concentrates last. After thoroughly mixing, let stand for at least 5 minutes. If the combination remains mixed or can be remixed readily, it is physically compatible. Once compatibility has been proven, use the same procedure for adding required ingredients to the spray tank.

If using **A20776E MENTOR EC** in a tank mixture, observe all directions for use, crops/sites, use rates, dilution ratios, precautions, and limitations which appear on the tank mix product label. No label dosage rate may be exceeded and the most restrictive label precautions and limitations must be followed. This product must not be mixed with any product which prohibits such mixing. Tank mixtures are permitted only in those states where the tank mix partner is registered.

THE CROP SAFETY OF ALL POTENTIAL TANK MIXES INCLUDING ADDITIVES AND OTHER PESTICIDES ON ALL CROPS HAS NOT BEEN TESTED. BEFORE APPLYING ANY TANK MIXTURE, THE SAFETY TO THE TARGET CROP SHOULD BE CONFIRMED.

Add ½ of the required amount of water or wax/oil emulsion (or aqueous dilution of a wax/oil emulsion) to the spray or mixing tank. With the agitator running, open the container and add the **A20776E MENTOR EC** to the tank. Continue agitation while adding the remainder of the carrier. Begin application of the solution after the **A20776E MENTOR EC** has completely and uniformly dispersed into the mix carrier. Maintain agitation until all of the mixture has been applied.

If tank-mixing, add the desired amount of other products recommended for tank mixture after **A20776E MENTOR EC** has completely and uniformly dispersed into the mix carrier. Add tank mix partners in this order unless label directions or other considerations indicate otherwise: wettable powders, wettable granules (dry flowables), liquid flowables, liquids, and emulsifiable concentrates. Always allow each tank mix

partner to become fully dispersed before adding the next product. Continue agitation to maintain a uniform suspension until all of the spray solution has been applied.

## CROP USE DIRECTIONS

### Citrus Fruit Crop Group 10-10

Use **A20776E MENTOR EC** as a post-harvest dip, drench, flood, or spray for the control of post-harvest diseases caused by:

- Green or Blue mold (*Penicillium* spp.)
- Sour rot (*Geotrichum citri-aurantii*)

Citrus Fruit Crop Group 10-10			
Application Method	Disease	Rate (fl oz)	Remarks
In-Line Dip/Drench	Green mold Blue mold Sour rot	32 - 64 fl oz /100 gallons	<ul style="list-style-type: none"> <li>• Mix 32 - 64 fl oz of <b>A20776E MENTOR EC</b> in 100 gallons of an appropriate water, wax/oil emulsion, or aqueous dilution of wax/oil emulsion.</li> <li>• Dip for a minimum of 30 seconds and allow fruit to drain.</li> </ul>
In-line Aqueous or Fruit Coating Spray Application	Green mold Blue mold Sour rot	32 - 64 fl oz/ 250,000 lb of fruit	<ul style="list-style-type: none"> <li>• Ensure proper coverage of the fruit.</li> <li>• Mix the fungicide solution in an appropriate water, wax/oil emulsion, or aqueous dilution of a wax/oil emulsion for the crop being treated.</li> <li>• Use T-jet, CDA, or similar application system.</li> </ul>

**Citrus Fruit Includes** - Australian desert lime (*Eremocitrus glauca*); Australian finger lime (*Microcitrus australasica*); Australian round lime (*Microcitrus australis*); Brown River finger lime (*Microcitrus papuana*); Calamondin (*Citrofortunella microcarpa*); Citron (*Citrus medica*); Citrus hybrids, *Citrus* spp., *Eremocitrus* spp., *Fortunella* spp., *Microcitrus* spp., and *Poncirus* spp.; Grapefruit (*Citrus paradisi*); Japanese summer grapefruit (*Citrus natsudaidai*); Kumquat (*Fortunella* spp.); Lemon (*Citrus limon*); Lime (*Citrus aurantiifolia*); Mediterranean mandarin (*Citrus deliciosa*); Mount White lime



(*Microcitrus garrowayae*); New Guinea wild lime (*Microcitrus warburgiana*); Orange, sour (*Citrus aurantium*); Orange, sweet (*Citrus sinensis*); Pummelo (*Citrus maxima*); Russell River lime (*Microcitrus inodora*); Satsuma mandarin (*Citrus unshiu*); Sweet lime (*Citrus limetta*); Tachibana orange (*Citrus tachibana*); Tahiti lime (*Citrus latifolia*); Tangelo (*Citrus x tangelo*); Tangerine (Mandarin) (*Citrus reticulata*); Tangor (*Citrus nobilis*); Trifoliate orange (*Poncirus trifoliata*); Uniq fruit (*Citrus aurantium* Tangelo group); cultivars, varieties and/or hybrids of these.

#### Note to Users

- Ensure the **A20776E MENTOR EC** solution remains in suspension by using agitation.

#### Specific Use Restrictions

- Make no more than two post-harvest applications to citrus fruit.
- For maximum decay control, treat fruit once before storage and once after storage, just prior to marketing.
- Make no more than two post-harvest applications of propiconazole containing products to citrus fruits.
- The maximum total application rate for the two applications must be less than 0.88 lb ai/100 gal or 0.88 lb ai/250,000 fruit.

### STORAGE AND DISPOSAL

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

#### Pesticide Storage

Do not store near heat or open flame. Store in original containers only. Keep container closed when not in use. Do not store near food or feed. In case of spill on floor or paved surfaces, mop and remove to chemical waste storage area until proper disposal can be made if product cannot be used according to the label. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes.

#### Pesticide Disposal

Improper disposal of unused 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 [less than or equal to 5 gallons]

**Non-refillable container.** Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary

landfill, or by incineration, or by other procedures approved by state and local authorities.

### **Container Handling [greater than 5 gallons]**

**Non-refillable container.** Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container  $\frac{1}{4}$  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 end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill or by incineration, or by other procedures approved by state and local authorities.

**Refillable container.** Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the person refilling. To clean container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill or by incineration, or by other procedures approved by state and local authorities.

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

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

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