



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

May 9, 2019

Ms. Nakia Smith
Regulatory Product Manager
Syngenta Crop Protection, LLC
P.O. Box 18300
Greensboro, N.C. 27419

Subject: Label Amendment – Addition of Crops with Existing Tolerances
Product Name: **Mentor EC**
EPA Registration Number: 100-1562
Application Date: September 7, 2018
Decision Number: 544293

Dear Ms. Smith:

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.

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.

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

Page 2 of 2
EPA Reg. No. 100-1562
Decision No. 544293

with FIFRA section 6. If you have any questions, please contact Eleanor Thornton by phone at 703-305-6799, or via email at Thornton.eleanor@epa.gov.

A handwritten signature in black ink that reads "Shaja B. Joyner". The signature is written in a cursive style with a large initial "S".

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

Enclosure

05/09/2019

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 100-1562

[Master]

PROPICONAZOLE | GROUP **3** | FUNGICIDE

Mentor® EC

Fungicide

For Control of Certain Post-Harvest Diseases of Citrus, Stone Fruit, and Tomato

Active Ingredient:

Propiconazole*:9.7%

Other Ingredients:90.3%

Total:100.0%

*CAS No. 60207-90-1

Mentor EC is formulated as an emulsion concentrate (EC) that contains 0.88 lb 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.

_____ gallons

Net Contents

[Batch Code: _____] (For nonrefillables only.)

TABLE OF CONTENTS

1.0 FIRST AID

2.0 PRECAUTIONARY STATEMENTS

2.1 Hazards to Humans and Domestic Animals

2.2 Personal Protective Equipment (PPE)

2.2.1 User Safety Requirements

2.2.2 User Safety Recommendations

2.3 Environmental Hazards

2.4 Physical and Chemical Hazards

DIRECTIONS FOR USE

3.0 PRODUCT INFORMATION

3.1 Integrated pest Management

3.2 Resistance Management

4.0 APPLICATION DIRECTIONS

4.1 Methods of Application

4.2 Application Equipment

4.3 Application Volume and Spray Coverage

4.4 Mixing Directions

4.4.1 Mentor EC Alone

4.4.2 Tank-Mix Precautions

4.4.3 Tank-Mix Compatibility

4.4.4 Mentor EC In Tank Mixtures

5.0 RESTRICTIONS AND PRECAUTIONS

5.1 Use Precautions

6.0 POST-HARVEST USE DIRECTIONS

6.1 Citrus Fruit, Crop Group 10-10

6.2 Stone Fruit, Crop Group 12-12

6.3 Tomato

7.0 STORAGE AND DISPOSAL

8.0 CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

9.0 APPENDIX

9.1 Mentor EC Use Summary Table [Optional Text]

1.0 FIRST AID

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

2.0 PRECAUTIONARY STATEMENTS

2.1 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.

2.2 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

2.2.1 User Safety Requirements

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

2.2.2 User Safety Recommendations

User Safety Recommendations

Users should:

- 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.

2.3 Environmental Hazards

Propiconazole 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.

2.4 Physical and Chemical Hazards

Hazardous chemical reaction may occur. Do not mix or allow to come in contact with oxidizing agents in a final concentration of Mentor EC greater than 10% (v:v) (e.g., 10 gal of Mentor EC in 100 gal final volume). Chemical incompatibility does not occur at sodium hypochlorite concentrations of 1000 ppm or less.

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 agency responsible for pesticide regulation.

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

3.0 PRODUCT INFORMATION

Mentor EC is a broad-spectrum fungicide used to aid in the control of several post-harvest diseases in citrus, stone fruit, and tomato **in post-harvest treatment facilities.**

3.1 Integrated pest Management

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. 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.

3.2 Resistance Management

PROPICONAZOLE	GROUP	3	FUNGICIDE
---------------	-------	----------	-----------

Mentor EC is in the Group 3 class fungicides. The mode of action of 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. Do not alternate or tank mix Mentor EC with any fungicide to which resistance has already developed.

4.0 APPLICATION DIRECTIONS

4.1 Methods of Application

Mentor EC may be used as a post-harvest dip, drench, flood or spray application for control of certain post-harvest diseases.

4.2 Application Equipment

- All application equipment must be properly maintained and calibrated using appropriate carriers or surrogates.
- Use T-jet, CDA, flood jet, or similar application system for in-line aqueous or coating spray application.

4.3 Application Volume and Spray Coverage

- Ensure proper coverage from the dip/drench or spray application.

4.4 Mixing Directions

1. Thoroughly clean spray equipment before using this product.
2. Vigorously shake the product container before mixing.
3. Prepare no more spray mixture than is required for the immediate operation.
4. Vigorous agitation is necessary for proper dispersal of the product.
5. Maintain maximum agitation throughout the spraying operation.
6. Do not let the spray mixture stand overnight in the spray tank.
7. Flush the spray equipment thoroughly following each use.

4.4.1 Mentor EC Alone

1. 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.
2. With the agitator running, open the container and add the Mentor EC to the tank.
3. Continue agitation while adding the remainder of the carrier.
4. Begin application of the solution after the Mentor EC has completely and uniformly dispersed into the mix carrier.
5. Maintain agitation until all of the mixture has been applied.

4.4.2 Tank-Mix Precautions

- The crop safety of all potential tank mixes including additives and other pesticides has not been tested on all crops. Before applying any tank mixture, the safety to the target crop should be confirmed.
- It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.
- 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.
- Tank mixes of Mentor EC with other pesticides, fertilizers, or any other additives not specifically labelled for use with Mentor EC may result in tank mix incompatibility or unsatisfactory performance. In such cases, always check tank mix compatibility by conducting a jar test according to guidance in **Section 4.4.3** before actual tank mixing.

4.4.3 Tank-Mix Compatibility

- Conduct a jar test using a 1 pt to 1 qt container with lid by adding water or wax/oil emulsion to the jar.
- Next, add the appropriate amount of pesticides(s) or tank mix partner(s) in their relative proportions based on specified label rates. Add tank mix components separately in the order described in the tank-mixing section, **Section 4.4.4**. After each addition, shake or stir gently to thoroughly mix.
- After all ingredients have been added, put the lid on the jar, tighten and invert the jar 10 times to mix.
- After mixing, let the mixture stand 15 – 30 minutes and then examine for signs of incompatibility such as obvious separation, large flakes, precipitates, gels or heavy oily film on the jar.
- If the mixture remains mixed or can be remixed readily, it is physically compatible and can be used.

4.4.4 Mentor EC In Tank Mixtures

1. 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.

2. With the agitator running, open the container and add the Mentor EC to the tank.
3. Continue agitation while adding the remainder of the carrier.
4. After the product has completely and uniformly dispersed into the mix carrier, add tank mix partners in the following order unless label directions or other consideration indicate otherwise.
 - a) wettable powders
 - b) wettable granules (dry flowables)
 - c) liquid flowables
 - d) liquids
 - e) emulsifiable concentrates
5. Always allow each tank mix partner to become fully dispersed before adding the next product.
6. Continue agitation to maintain a uniform suspension until all of the spray solution has been applied.

5.0 RESTRICTIONS AND PRECAUTIONS

5.1 Use Precautions

- Ensure the Mentor EC solution remains in suspension by using agitation.

6.0 POST-HARVEST USE DIRECTIONS

6.1 Citrus Fruit, Crop Group 10-10

Crops (Including all cultivars, varieties, and/or hybrids of these)			
Calamondin	Lime, Australian round	Orange, sour	
Citron	Lime, brown river finger	Orange, sweet	
Citrus hybrids	Lime, mount white	Orange, tachibana	
Grapefruit	Lime, New Guinea, wild	Orange, trifoliolate	
Grapefruit, Japanese summer	Lime, Russell river	Pummelo	
Kumquat	Lime, sweet	Tangelo	
Lemon	Lime, Tahiti	Tangerine (Mandarin)	
Lime	Mandarin, Mediterranean	Tangor	
Lime, Australian desert	Mandarin, satsuma	Uniq fruit	
Lime, Australian finger			
Target Disease	Rate (fl oz)	Application Method	Application Instructions
Green mold (<i>Penicillium</i> spp) Blue mold (<i>Penicillium</i> spp) Sour rot (<i>Geotrichum citri-aurantii</i>)	32 -64 fl oz/100 gallons	In-line dip/drench	Mix in an appropriate amount of water, wax/oil emulsion, or aqueous dilution of wax/oil emulsion. Dip for a minimum of 30 seconds and allow fruit to drain.
	32-64 fl oz / 250,000 lb of fruit	In-line aqueous or fruit-coating spray application	Ensure proper coverage of the fruit. Mix in an appropriate amount of water, wax/oil emulsion, or aqueous dilution of wax/oil

			emulsion for the crop being treated.
Resistance Management:			
<ul style="list-style-type: none"> Refer to Section 3.2 			
USE RESTRICTIONS			
<ol style="list-style-type: none"> Maximum Single Application Rate: 64 fl oz Maximum Annual Rate: 128 fl oz (DO NOT exceed 0.88 lb ai of propiconazole-containing products) Make no more than two post-harvest applications of Mentor EC to citrus fruit. Make no more than two post-harvest applications of propiconazole-containing products to citrus fruits. For maximum decay control, treat fruit once before storage and once after storage, just prior to marketing. 			

6.2 Stone Fruit, Crop Group 12-12

Crops (Including all cultivars, varieties, and/or hybrids of these)			
Apricot	Nectarine	Plum, Chickasaw	
Apricot, Japanese	Peach	Plum, Damson	
Capulin	Plum	Plum, Japanese	
Cherry, black	Plum, American	Plum, Klamath	
Cherry, Nanking	Plum, beach	Plum, prune	
Cherry, sweet	Plum, Canada	Plumcot	
Cherry, tart	Plum, cherry	Sloe	
Jujube, Chinese			
Target Disease	Rate (fl oz)	Application Method	Application Instructions
Blue mold (<i>Penicillium</i> spp.)	8-16 fl oz/100 gallons	In-line dip/drench	Mix in an appropriate amount of water, wax/oil emulsion, or aqueous dilution of wax/oil emulsion.
Brown rot (<i>Monilinia</i> spp.)			Dip for a minimum of 30 seconds and allow fruit to drain.
Green mold (<i>Penicillium</i> spp.)	8-16 fl oz / 250,000 lb of fruit	In-line aqueous or fruit-coating spray application	Ensure proper coverage of the fruit.
Sour rot (<i>Geotrichum candidum</i>)			Mix in an appropriate amount of water, wax/oil emulsion, or aqueous dilution of wax/oil emulsion for the crop being treated.
Resistance Management:			
<ul style="list-style-type: none"> Refer to Section 3.2 			
USE RESTRICTIONS			
<ol style="list-style-type: none"> Maximum Single Application Rate: 16 fl oz Maximum Annual Rate: 16 fl oz (DO NOT exceed 0.11 lb ai of propiconazole-containing products) DO NOT make more than one post-harvest application to the fruit. Mentor EC is stable at temperatures of 60°C (or 140°F) that can be used to disinfest high-volume, recycling tanks. 			

6.3 Tomato

Crops (Including all cultivars and/or varieties of these)			
Tomato			
Target Disease	Rate (fl oz)	Application Method	Application Instructions
Black mold (<i>Alternaria alternata</i>) Sour rot (<i>Geotrichum candidum</i>)	16-32 fl oz/100 gallons	In-line dip/drench	Mix in an appropriate amount of water, wax/oil emulsion, or aqueous dilution of wax/oil emulsion. Dip for approximately 30 seconds and allow fruit to drain. Must be used in tank mixture with fludioxonil. May be used with a food grade adjuvant.
	16-32 fl oz / 250,000 lb of fruit	High-Volume (Dilute-Spray) Application	Ensure proper coverage of the fruit. Mix in an appropriate amount of water, wax/oil emulsion, or aqueous dilution of wax/oil emulsion for the crop being treated. Must be used in tank mixture with fludioxonil. May be used with a food grade adjuvant.
Resistance Management:			
<ul style="list-style-type: none"> Refer to Section 3.2 			
USE RESTRICTIONS			
<ol style="list-style-type: none"> Maximum Single Application Rate: 32 fl oz Maximum Annual Rate: 32 fl oz (DO NOT exceed 0.22 lb ai of propiconazole-containing products) DO NOT make more than one post-harvest application to the fruit. Mentor EC is stable at temperatures of 60°C (or 140°F) that can be used to disinfest high-volume, recycling tanks. 			

7.0 STORAGE AND DISPOSAL

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

Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

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 $\frac{1}{4}$ 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.

Container Handling [greater than 5 gallons]

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.

8.0 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, 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.

9.0 APPENDIX

9.1 Mentor EC Use Summary Table [Optional Text]

[Start of Optional Text]

IMPORTANT: The table below is a summary of the Crop Use Directions for Mentor EC. However, it is important for the user to read and follow the complete instructions contained within this label.

Crop or Crop Group Subgroup with examples	Maximum Rate Per Application (fl oz)	Maximum Rate per crop (fl oz)	Minimum Application Interval (Days)	Pre-Harvest Interval (PHI days)
Citrus Fruit Crop Group 10-10 (post-harvest use)	64	128	NA	NA
Stone Fruit Crop Group 12-12 (post-harvest use)	16	16	NA	NA
Tomato (post-harvest use)	32	32	NA	NA

[End of Optional Text]

Mentor® EC, the ALLIANCE FRAME
the SYNGENTA Logo and the PURPOSE ICON
are Trademarks of a Syngenta Group Company

©20XX Syngenta

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

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

MENTOR EC 1562 MAS 0117 AMEND-B 0818-CL – jb – 05-06-19
000100-01562.20180815B.MENTOR_EC-AMEND-0818-CL