



10/23/2013

1/14

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

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

Teresa S. Cox
Regulatory Product Manager
Syngenta Crop Protection, LLC
P.O. Box 18300
Greensboro, NC 27419-8300

OCT 23 2013

Subject: Graduate® A+
EPA Reg. No. 100-1308
EPA Decision Number: 481600
Your submission dated 7/17/13 updating the master label to incorporate the previously approved use for post-harvest citrus group on your supplemental label dated 8/22/12

Dear Ms. Cox:

The master labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable.

A stamped copy of the master label "Accepted" is enclosed for your records. This label supersedes all other previously accepted labels. Please submit one copy of the final printed label before the product is released for shipment. If you have any questions please contact Heather Garvie by phone at: 703-308-0034 or via email at: garvie.heather@epa.gov.

Sincerely,

Shaja B. Joyner
Product Manager (20)
Fungicide Branch (7504P)
Registration Division

2/14

Graduate® A+

GROUP 11 | 12 FUNGICIDE

Fungicide

For Control of Certain Post-Harvest Diseases of Citrus

Active Ingredient:

Fludioxonil (CAS No. 131341-86-1).....	20.6%
Azoxystrobin: methyl (E)-2-[2-[6-(2-cyanophenoxy) pyrimidin-4-yloxy]phenyl]-3-methoxyacrylate*.....	20.6%
Other Ingredients:	58.8%
Total:	100.0%

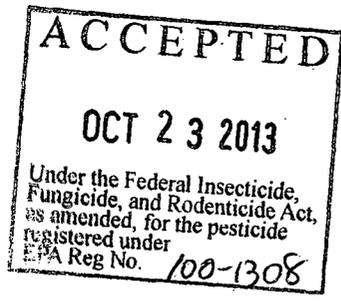
Graduate A+ is a flowable suspension concentrate.
 Graduate A+ contains 1.99 lb. a.i. fludioxonil and 1.99 lb. a.i. azoxystrobin per gallon.
 *IUPAC

KEEP OUT OF REACH OF CHILDREN.

CAUTION

See additional precautionary statements and directions for use inside booklet.
 Reformulation is prohibited. See individual container labels for repackaging limitations.

EPA Reg. No. 100-1308
 EPA Est. 100-NE-001
 Product of Switzerland
 Formulated in the USA
 SCP 1308A-L1A 0812



2 gallons
 Net Contents

E-SUBMISSION

3/19

FIRST AID	
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 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 do so by the poison control center or doctor. • Do not give anything by mouth to an unconscious person.
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 mouth to mouth, if possible. • Call a poison control center or doctor for further 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.
<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 For 24-Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), Call 1-800-888-8372</p>	

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

1/14

Environmental Hazards

The active ingredient, azoxystrobin, in this product can be persistent for several months or longer. Azoxystrobin has degradation products which have properties similar to chemicals which are known to leach through soil to ground water under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

This pesticide is toxic to freshwater and estuarine/marine fish and aquatic invertebrates. Do not apply directly to water except as specified on this label. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate.

The active ingredient, fludioxonil, in this product is toxic to fish and aquatic invertebrates.

Notify State and/or Federal authorities and Syngenta immediately if you observe any adverse environmental effects due to use of this product.

Physical or Chemical Hazards

Do not use or store near heat or open flame.

5/14

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 consistent with 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 consistent with 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 CONSISTENT WITH 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 consistent with 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 CONSISTENT WITH 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.

6/19

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

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

Do not formulate this product into other end-use products without written permission.

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR DISEASE CONTROL.

For Use in Post-Harvest Produce Packing Facilities

GENERAL INFORMATION

RESISTANCE MANAGEMENT

GROUP 11 | 12 FUNGICIDE

Graduate A+ is a protective fungicide used to aid in the control of post-harvest diseases. Graduate A+ contains fludioxonil and azoxystrobin. Fludioxonil is a phenylpyrrole class of chemistry and has a unique mode of action, which blocks a protein kinase that catalyses phosphorylation of a regulatory enzyme of glycerol synthesis [Fungicide Action Group 12]. Azoxystrobin is a strobilurin class of chemistry and its mode of action is the inhibition of the Qo (quinone outside) site within the electron transport system [Group 11]. Fungal isolates with acquired resistance to Group 11 or 12 may eventually dominate the fungal population if Group 11 or 12 fungicides are used repeatedly or in successive years as the primary method of control for targeted species. This may result in partial or total loss of control of those species by azoxystrobin or fludioxonil or other Group 11 or 12 fungicides. A disease management program that includes alternation or tank mixes between Graduate A+ and other labeled fungicides that have a different mode of action may prevent pathogen populations from developing resistance. Sanitation and other cultural practices to minimize disease are also recommended to aid in control as well as to assist in preventing/delaying resistance development.

Graduate A+ is a broad-spectrum, preventative fungicide with systemic and curative properties recommended for the control of many important plant diseases. All applications must be made according to the use directions that follow.

7/17

NOTE: Graduate A+ may be degraded by exposure to direct sunlight. Treated fruit should not be stored in direct sunlight.

MIXING PROCEDURES

Vigorously shake the product container before mixing. Prepare no more spray mixture than is needed for the immediate operation. Thoroughly clean spray equipment before using this product. Vigorous agitation is necessary for proper dispersal of the product. 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 Graduate A+ 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 Graduate A+ 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 should be exceeded and the most restrictive label precautions and limitations should be followed. This product should 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 Graduate A+ to the tank. Continue agitation while adding the remainder of the carrier. Begin application of the solution after the Graduate A+ 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 Graduate A+ has completely and uniformly dispersed into the mix carrier. In general, tank-mix partners should be added in this order: wettable powders, wettable

8/17

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. Maintain agitation until all of the mixture has been applied.

APPLICATION INSTRUCTIONS

Apply Graduate A+ at rates and timings as specified in this label.

CROP USE DIRECTIONS

Citrus Fruit Crop Group 10-10

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 PARADISE*), JAPANESE SUMMER GRAPEFRUIT (*CITRUS NATSUDAIDA*), 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 RETICULATE*), TANGOR (*CITRUS NOBILIS*), TRIFOLIATE ORANGE (*PONCIRUS TRIFOLIATE*), UNIQU FRUIT (*CITRUS AURANTIUM TANGELO* GROUP), CULTIVARS, VARIETIES AND/OR HYBRIDS OF THESE.

Use Graduate A+ as a post-harvest dip, drench, flood, or spray for the control of certain post-harvest fruit rots caused by:

- Green or Blue mold (*Penicillium* spp.)
- Diplodia stem-end rot (*Lasioidiplodia theobromae*)
- Phomopsis stem-end rot (*Diaporthe citri*)
- Gray mold (*Botrytis cinerea*)

9/14

Application Method	Disease	Rate (fl. oz.)	Remarks
In-Line Dip/Drench	Green mold Blue mold Diplodia stem-end rot Gray mold	32-64 fl. oz./100 gal.	<ul style="list-style-type: none"> Mix 32-64 fl. oz. of Graduate A+ in 100 gal. of an appropriate water, wax/oil emulsion, or aqueous dilution of wax/oil emulsion. Dip for a minimum of 30 seconds and allow fruit to drain.
In-line Aqueous or Fruit Coating Spray application	Green mold Blue mold Diplodia stem-end rot Gray mold	32-64 fl. oz./250,000 lb. of fruit	<ul style="list-style-type: none"> Ensure proper coverage of the fruit. Mix the fungicide solution in an appropriate water, wax/oil emulsion, or aqueous dilution of a wax/oil emulsion for the crop being treated. Use T-jet, CDA, flood jet, or similar application system.
For maximum decay control, treat fruit once before storage and once after storage, just prior to marketing. Do not make more than two applications to citrus fruit.			
<ul style="list-style-type: none"> Ensure the Graduate A+ solution remains in suspension by using agitation. Graduate A+ may be degraded by exposure to direct sunlight. Treated fruit should not be stored in direct sunlight. 			

STORAGE AND DISPOSAL

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

Pesticide Storage

Store in original containers in a cool, dry place. Do not store this product under wet conditions. Keep container closed when not in use. Do not store near food or feed. In case of spill on floor or paved surfaces, sweep 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 of the nearest EPA Regional Office for guidance.

Container Handling [2 gallons]

Non-refillable container. Do not reuse or refill this container. Offer for recycling if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and

10/17

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 and 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, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Container Handling [Bulk/Mini-Bulk]

Non-refillable container. Do not reuse or refill this container. Offer for recycling if available. 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 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 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, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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

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

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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, LLC
P.O. Box 18300
Greensboro, North Carolina 27419-8300

Product of Switzerland
Formulated in the USA

SCP 1308A-L1A 0812

11/19

[NON-DETACHABLE CONTAINER LABEL]

Graduate® A+

GROUP 11 | 12 FUNGICIDE

Fungicide

For Control of Certain Post-Harvest Diseases of Citrus

Active Ingredient:

Fludioxonil (CAS No. 131341-86-1).....	20.6%
Azoxystrobin: methyl (<i>E</i>)-2-{2-[6-(2-cyanophenoxy) pyrimidin-4-yloxy]phenyl}-3-methoxyacrylate*	20.6%
Other Ingredients:	58.8%
Total:	100.0%

Graduate A+ is a flowable suspension concentrate.

Graduate A+ contains 1.99 lb. a.i. fludioxonil and 1.99 lb. a.i. azoxystrobin per gallon.

*IUPAC

KEEP OUT OF REACH OF CHILDREN.

CAUTION

See additional precautionary statements and directions for use inside booklet.

Reformulation is prohibited. See individual container labels for repackaging limitations.

EPA Reg. No. 100-1308

EPA Est. 100-NE-001

Product of Switzerland
Formulated in the USA

SCP 1308A-L1A 0812

2 gallons
Net Contents

12/19

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION

Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

FIRST AID	
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 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 do so by the poison control center or doctor. • Do not give anything by mouth to an unconscious person.
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 mouth to mouth, if possible. • Call a poison control center or doctor for further 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.
<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 For 24-Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), Call 1-800-888-8372</p>	

13/14

Environmental Hazards

The active ingredient, azoxystrobin, in this product can be persistent for several months or longer. Azoxystrobin has degradation products which have properties similar to chemicals which are known to leach through soil to ground water under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

This pesticide is toxic to freshwater and estuarine/marine fish and aquatic invertebrates. Do not apply directly to water except as specified on this label. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate.

The active ingredient, fludioxonil, in this product is toxic to fish and aquatic invertebrates.

Notify State and/or Federal authorities and Syngenta immediately if you observe any adverse environmental effects due to use of this product.

Physical or Chemical Hazards

Do not use or store near heat or open flame.

STORAGE AND DISPOSAL

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

Pesticide Storage

Store in original containers in a cool, dry place. Do not store this product under wet conditions. Keep container closed when not in use. Do not store near food or feed. In case of spill on floor or paved surfaces, sweep 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

14/14

representative of the nearest EPA Regional Office for guidance.

Container Handling

Non-refillable container. Do not reuse or refill this container. Offer for recycling if available. 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 and 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, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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

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

SCP 1308A-L1A 0812

GRADUATE A+ 1308 MAS 0812 AMEND JUL2013 CLEAN – df – 7/2/13
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