



PLANT GROWTH REGULATOR

ADVANTIGRO® II

Plant growth stimulant for use on field crops, vegetable crops, small fruit, vine, tree fruit, sod, turf, shrubs, flowering plants, and ornamentals.

ACTIVE INGREDIENTS:	BY WT.
Cytokinin (as kinetin)	0.009%
Indolebutyric Acid	0.005%
Gibberellin GA 4 & 7	0.005%
OTHER INGREDIENTS:	<u>99.981%</u>
TOTAL:	100.000%

Contains 0.0008 lb. cytokinin/gallon
Contains 0.0004 lb. indolebutyric acid/gallon
Contains 0.0004 lb. gibberellin GA 4 & 7/gallon

EPA Reg. No. 62097-64-2935

EPA Est. No. 70815-GA-1

KEEP OUT OF REACH OF CHILDREN

PRECAUTIONARY STATEMENTS

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks

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

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.

ENGINEERING CONTROLS STATEMENT

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high-water mark. Do not apply when weather conditions favor drift from treated areas. Do not apply where runoff is likely to occur. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate. Exposed treated seed may be hazardous to birds and other wildlife. Treat only those seeds needed for immediate use and planting. Do not store excess treated seed beyond planting time. Dispose of all excess treated seed and seed packaging by burial away from streams and bodies of water.

DIRECTIONS FOR USE

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

This product may also be used to formulate products for any additional uses not listed on this label if the formulator, user group, or grower has complied with U.S. EPA data submission requirements regarding the support of such use(s).

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.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions, and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted entry intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow entry into treated areas during the restricted entry interval level (REI) of 4 hours unless wearing appropriate PPE.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water is:

- Coveralls
- Shoes plus socks

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Do not enter or allow others to enter the treated areas until sprays have dried.

ADVANTIGRO II is a plant biostimulant which improves the germination of seed, promote early plant emergence in cool conditions, promote root growth and seedling development.

- ADVANTIGRO II can be tank mixed and applied with in-furrow fertilizers to improve germination and early season growth. All possible combinations of fertilizers with this product have not been tested. As such, the user must perform a test mix of the materials to be used in the tank mix with ADVANTIGRO II, as shown in the Compatibility section below, to evaluate compatibility of the mixture prior to preparing a larger amount for application in the field. Failure to do so may result in crop injury or lack of performance.
- Tank mixes of ADVANTIGRO II and in-furrow fertilizers must be mixed thoroughly and applied within 1 day of mixing. Agitation must be maintained to assure proper dispersal of this product in the fertilizer.
- Apply ADVANTIGRO II utilizing properly calibrated application equipment. Failure to do so may result in an improper application to the crop which may result in injury to the crop or lack of performance.
- Clean spray equipment thoroughly using a strong detergent or commercial sprayer cleaner according to the manufacturer's directions before and after applying ADVANTIGRO II.
- This product cannot be used to formulate or reformulate any other pesticide product.

COMPATIBILITY:

Conduct a compatibility test when you plan to mix ADVANTIGRO II with other products. To determine the physical compatibility of this product with other products, use a jar test. Using a quart jar, add the proportionate amounts of each product to approximately one quart of water with agitation. Add dry formulations first, then flowables, and then emulsifiable concentrates last. After thorough mixing, allow this mixture to stand for 5 minutes. If the combination remains mixed or can be readily remixed, it is physically compatible.

Once compatibility has been proven, use the same procedure for adding products to the spray tank. Follow the more restrictive labeling requirements of any tank mix partner. Do not tank mix with products whose label prohibits tank mixing. Treat a small test plot if new combinations of products are being used for the first time.

TANK MIXING INFORMATION:

ADVANTIGRO II is soluble in water but can also be mixed directly into many liquid fertilizers for use in-furrow at planting. This product may also be applied in tank mixes as foliar sprays. All possible combinations of fertilizers, pesticides and/or other agricultural tank mix partners have not been evaluated. Tests must be performed for compatibility and crop safety before applying mixes of materials with which the applicator does not have experience and prior to large scale use.

Testing has shown that ADVANTIGRO II, when used as per label instructions, does not result in phytotoxicity. However, not all crop varieties and cultivars have been tested with possible tank-mix combinations. Since local conditions may influence crop tolerance, test any tank-mix combination on a small portion of the crop to be treated to ensure crop safety. Read and follow the applicable Directions for Use on all products involved in tank-mixing. Always refer to the most restrictive labeling.

Tank mixes of ADVANTIGRO II and in-furrow fertilizers must be mixed thoroughly and applied within 1 day of mixing. Agitation must be maintained to assure proper dispersal of this product in the fertilizer.

APPLICATION INSTRUCTIONS

IMPORTANT: Read the entire "Directions for Use" and the "Notice" before using this product. If terms are not acceptable, return the unopened product container to seller at once.

NOTICE: ADVANTIGRO II IS NOT A FERTILIZER. USE IN COMBINATION WITH A GOOD FERTILIZER PROGRAM WHERE INDICATED.

Apply ADVANTIGRO II by ground or air. If applied by air, use 2 to 5 gal of water per acre. If applied by ground, use 5 to 25 gal of water per acre. For turf grass, apply this product by ground using 0.2 to 0.5 gal of water per 1,000 sq ft.

Test results have shown that this product may stimulate higher yields through a larger root mass, earlier fruiting, and increased fruit retention. ADVANTIGRO II is a tool to increase plant efficiency.

Consult your farm advisor or extension specialist for advice about rates and timing for any of the crops mentioned below.

BERRIES GROUP						
Crop	No. of Applications	Rate (fl oz per acre) by Type of Application				Instructions for Application Timing for Banded & Broadcast/Foliar Sprays
		In-Furrow	Transplant Water	Banded	Broadcast/Foliar	
Blueberries	1		0.5-1.0 fl oz per gal water			For root dips on young plantings, treat just prior to planting.
	1		16-32 fl oz per 100 gal			Apply as a drench to the soil at or just after planting for new plantings.
	2-3				4-8	For chemigation through drip or other irrigation on planted bushes, make 2- 3 applications 14-21 days apart beginning with root flush in the spring.
	3-4				8-16	For either foliar applications or chemigation: 1) Apply at bud break to help start the bush, 2) after petal fall for increasing cell division and 3) approximately 30 days after petal fall for increasing fruit size /or begin applications around Petal Fall and then on 14-day intervals & repeat 3-4 times.
Cane berries (such as Blackberries, Raspberries, or others)	1		0.5-1.0 fl oz per gal water			For root dips on young plantings just prior to planting.
	1		16-32 fl oz per 100 gal			Apply as a drench to the soil at or just after planting for new plantings.
	2-3				4-8	For chemigation through drip or other irrigation on established plants; make 2-3 applications 14-21 days apart beginning with root flush in the spring.
	3-4				8-16	For foliar applications or through chemigation, applications can be made at the following intervals: 1) Apply at bud break to help start the plants, 2) after petal fall for increasing cell division and 3) approximately 30 days after petal fall for increasing fruit size /or begin applications around petal fall and then on 14-day intervals & repeat 3-4 times.

BERRIES GROUP (continued)						
Crop	No. of Applications	Rate (fl oz per acre) by Type of Application				Instructions for Application Timing for Banded & Broadcast/Foliar Sprays
		In-Furrow	Transplant Water	Banded	Broadcast/Foliar	
Grapes	1 or more				2-8	Make applications beginning at bud break. Repeat applications can be made every 7-21 days through veraison.
	1 or more				4-8	Make applications beginning at fruit set. Repeat applications can be made every 7-21 days through veraison.
Strawberries	3-6			2	4	Make first application at 1 st bloom. Repeat applications can be made every 14-28 days for a total of 3 to 6 applications.

BRASSICA (COLE) LEAFY VEGETABLES GROUP						
Crop	No. of Applications	Rate (fl oz per acre) by Type of Application				Application Timing for Banded & Broadcast/Foliar Sprays
		In-Furrow	Transplant Water	Banded	Broadcast/Foliar	
Broccoli Brussels sprouts, Cauliflower	3	2-8*	0.5-1.0 fl oz per gal water or 2- 8 fl oz per acre	4	6	Transplants: For use prior to or at transplanting see notation for vegetable transplants in Transplant section of this label. Make first foliar application at 4-5 leaf stage. Repeat applications within 10-14-day intervals.
*In-Furrow: Apply at planting in the seed furrow or 2 inches beside and 2 inches below seed or with a strip till machine 3 inches below the seed. ADVANTIGRO II may be applied with or without fertilizers, pesticides, or other agricultural products. See "Tank Mixing" section for further instructions on tank mixes. NOTE: If seed being planted has been treated with ADVANTIGRO II, do not apply this product as an in-furrow treatment.						

BULB VEGETABLES GROUP						
Crop	No. of Applications	Rate (fl oz per acre) by Type of Application				Application Timing for Banded & Broadcast/Foliar Sprays
		In-Furrow	Transplant Water	Banded	Broadcast/Foliar	
Chives Garlic Leeks Onions Shallots	3	2-8*		4	6	Make first application 2 weeks after emergence. Repeat applications within 10-14-day intervals.
*In-Furrow: Apply at planting in the seed furrow or 2 inches beside and 2 inches below seed or with a strip till machine 3 inches below the seed. ADVANTIGRO II may be applied with or without fertilizers, pesticides, or other agricultural products. See "Tank Mixing" section for further instructions on tank mixes. NOTE: If seed being planted has been treated with ADVANTIGRO II, do not apply this product as an in-furrow treatment.						

CEREAL GRAINS						
Crop	No. of Applications	Rate (fl oz per acre) by Type of Application				Application Timing for Banded & Broadcast/Foliar Sprays
		In-Furrow	Transplant Water	Banded	Broadcast/Foliar	
Barley Oats Rye Wheat	1-2	2-8*		2-6	2-8	Apply at tillering in the fall and/or spring. A second application can be made when 2 to 3 leaves have formed on main stem.
Corn, Field	1	2-8*		5	6-8	Apply in seed furrow at planting. Foliar applications can be made beginning at 2-6 leaf stage. Repeat application within 7-14-day intervals.
	1			4	8	Apply during flowering from initiation of flowering to end of bloom stage.
Corn, Sweet	1	2-8*		5	8	Make application at 2-6 leaf stage.
	2 or more			3	4	Make first application at 2- 6 leaf stage. Repeat applications within 7-21-day intervals through end of tasseling.
Flax	2				4-6	Make first application when plants are 2-4 inches tall. A second application can be made 2-3 weeks after the first application.
Rice	1				8	Make application at 2-5 leaves or at panicle initiation.
	2				4	Make application at 2-5 leaves and/or at panicle initiation.
Sorghum	1	2-8*		2-5	2-8	Make application at 2-6 leaf stage.

*In-Furrow: Apply at planting in the seed furrow or 2 inches beside and 2 inches below seed or with a strip till machine 3 inches below the seed. ADVANTIGRO II may be applied with or without fertilizers, pesticides, or other agricultural products. See "Tank Mixing" section for further instructions on tank mixes. **NOTE:** If seed being planted has been treated with ADVANTIGRO II, do not apply this product as an in-furrow treatment.

CITRUS FRUIT						
Crop	No. of Applications	Rate (fl oz per acre) by Type of Application				Instructions for Application Timing for Banded & Broadcast/Foliar Sprays
		In-Furrow	Transplant Water	Banded	Broadcast/Foliar	
Oranges	1 or more				1-2 pints per 100 gal	Apply at a rate of 1-2 pints per 100 gal of water beginning at 1st bloom. Repeat applications can be made at each flush of new growth.

CUCURBIT VEGETABLES GROUP						
Crop	No. of Applications	Rate (fl oz per acre) by Type of Application				Application Timing for Banded & Broadcast/Foliar Sprays
		In-Furrow	Transplant Water	Banded	Broadcast/Foliar	
Cucumbers	1	2-8*	0.5-1.0 fl oz per gal water or 2- 8 fl oz per acre	4	8	Transplants: For use prior to or at transplanting see notation for vegetable transplants in Transplant section of this label. Make foliar application between flower bud initiation and first bloom.
	2-3			3	4	Make first application between flower bud initiation and first bloom. Repeat applications within 7-10-day intervals.
	3-4			3	4	Transplants: First application at transplanting. Direct Seeded: First application at 3-4 leaf stage. For both planting methods repeat applications within 7-10 intervals.
Melons	2-3	2-8*	0.5-1.0 fl oz per gal water or 2- 8 fl oz per acre	3	4	Transplants: For use prior to or at transplanting see notation for vegetable transplants in Transplant section of this label. Make first foliar application at flower bud initiation. Repeat applications within 7-10 intervals.
	4-6			2	3	Make first application 2 weeks after emergence. Repeat applications within 7-14-day intervals.
Squash	1	2-8*		4	8	Apply between flower bud initiation and first bloom.
	2-3			3	4	Make first application at flower bud initiation. Repeat applications within 7-10-day intervals.
	4-6			2	3	Make first application at 2 weeks after emergence. Repeat applications within 7-14-day intervals.

CUCURBIT VEGETABLES GROUP (continued)

Crop	No. of Applications	Rate (fl oz per acre) by Type of Application				Instructions for Application Timing for Banded & Broadcast/Foliar Sprays
		In-Furrow	Transplant Water	Banded	Broadcast/Foliar	
Other Cucurbit Crops (including Gherkin Muskmelon Pumpkin Watermelon)	1	2-8*	0.5-1.0 fl oz per gal water or 2- 8 fl oz per acre	4	8	Transplants: For use prior to or at transplanting see notation for vegetable transplants in Transplant section of this label. Make first foliar application between flower bud initiation and first bloom.
	2-6			2	3-4	Apply first application either 2 weeks after emergence or at flower bud initiation. Repeat applications on 7-14-day intervals, as needed.
	3-4			3	4	Transplants: Make first application at transplanting. Direct Seeded: Make first application at 3-4 leaf stage. For both planting methods, repeat applications on 7-10 intervals, as needed.

*In-Furrow: Apply at planting in the seed furrow or 2 inches beside and 2 inches below seed or with a strip till machine 3 inches below the seed. ADVANTIGRO II may be applied with or without fertilizers, pesticides, or other agricultural products. See "Tank Mixing" section for further instructions on tank mixes. **NOTE:** If seed being planted has been treated with ADVANTIGRO II, do not apply this product as an in-furrow treatment.

FRUITING VEGETABLE GROUP						
Crop	No. of Applications	Rate (fl oz per acre) by Type of Application				Application Timing for Banded & Broadcast/Foliar Sprays
		In-Furrow	Transplant Water	Banded	Broadcast/Foliar	
Eggplant Tomatoes	1	2-8*	0.5-1.0 fl oz per gal water or 2-8 fl oz per acre	4	8	Transplants: For use prior to or at transplanting see notation for vegetable transplants in Transplant section of this label. Apply foliar application between flower bud initiation and first bloom.
	2-3			3	4	Make first application at flower bud initiation. Repeat applications within 7-10-day intervals.
	4-6			2	3	Make first application at 2 weeks after emergence for direct seeded crop or following transplanting. Repeat applications within 7-14-day intervals.
Peppers	4-6	2-8*	0.5-1.0 fl oz per gal water or 2-8 fl oz per acre	3	4	Transplants: For use prior to or at transplanting see notation for vegetable transplants in Transplant section of this label. If desired, rather than dipping or applying in transplant water, a foliar application may be made at transplanting. Do not use both methods for transplants within the same planting. Direct Seeded: First application at 2-4 leaf stage. For both direct seeded and transplant planting methods repeat foliar applications within 7-14 intervals.
<p>*In-Furrow: Apply at planting in the seed furrow or 2 inches beside and 2 inches below seed or with a strip till machine 3 inches below the seed. ADVANTIGRO II may be applied with or without fertilizers, pesticides, or other agricultural products. See "Tank Mixing" section for further instructions on tank mixes. NOTE: If seed being planted has been treated with ADVANTIGRO II, do not apply this product as an in-furrow treatment.</p>						

GOLF COURSES						
Crop	No. of Applications	Rate (fl oz per acre) by Type of Application				Application Timing for Banded & Broadcast/Foliar Sprays
		In-Furrow	Transplant Water	Banded	Broadcast/Foliar	
Fairways	1-2				8	Make 2 applications of this product at 8 fl oz per acre the first year. Then make 1-2 applications of 8 fl oz per acre per year in subsequent years.
Greens	1 or more				2 fl oz per 5000-7000 sq ft	Apply an initial treatment of this product at 2 fl oz per 5000-7000 sq ft to promote root development and protect against "winter kill."
					1 fl oz per green	Subsequent applications of 1 fl oz of this product per green may be applied every 30 days to help maintain healthy root growth.
Tees	1 or more				½ fl oz per 1200-1500 sq ft	Apply this product at ½ fl oz per 1200-1500 sq ft to maintain healthy root growth. Repeat applications can be made every 30 days.

GRASS FORAGE, FODDER, AND HAY						
Crop	No. of Applications	Rate (fl oz per acre) by Type of Application				Application Timing for Banded & Broadcast/Foliar Sprays
		In-Furrow	Transplant Water	Banded	Broadcast/Foliar	
Alfalfa (established)	1 or more				2-6	Make first application after dormancy break when sufficient regrowth is present. A subsequent application can be made following each cutting once sufficient regrowth is present.
Alfalfa (newly seeded)	1				2-6	Apply when seedling alfalfa is in the 3rd to 4th trifoliate stage.
Grass Grown for Seed	1	4-8*			4-8	Application Timing: at planting to 3 visible nodes. Application method: foliar, in-furrow, or through irrigation.
Nongrass Animal Feeds (Forage, Fodder, Straw, and Hay, other than Alfalfa)	1	2-8*				For new plantings an application may be made in-furrow at planting.
	1 or more			2-4	2-8	Foliar applications Begin applications when 2-4 true leaves have emerged and continue on a 7-14-day interval.
	1 or more			2-4	2-8	For crops being cut/harvested multiple times in a season, begin foliar applications following each cutting/harvest after plant regrowth has begun.
<p>* In-Furrow: Apply at planting in the seed furrow or 2 inches beside and 2 inches below seed or with a strip till machine 3 inches below the seed. ADVANTIGRO II may be applied with or without fertilizers, pesticides, or other agricultural products. See "Tank Mixing" section for further instructions on tank mixes. NOTE: If seed being planted has been treated with ADVANTIGRO II, do not apply this product as an in-furrow treatment.</p>						

LEAFY VEGETABLES GROUP						
Crop	No. of Applications	Rate (fl oz per acre) by Type of Application				Application Timing for Banded & Broadcast/Foliar Sprays
		In-Furrow	Transplant Water	Banded	Broadcast/Foliar	
Cabbage	3	2-8*	0.5-1.0 fl oz per gal water or 2- 8 fl oz per acre	4	6	Transplants: For use prior to or at transplanting see notation for vegetable transplants in Transplant section of this label. Make first foliar application at 4-5 leaf stage. Repeat applications within 10- 14-day intervals.
Lettuce	3	2-8*	0.5-1.0 fl oz per gal water or 2- 8 fl oz per acre	4	6	Transplants: For use prior to or at transplanting see notation for vegetable transplants in Transplant section of this label. Make first foliar application at 4-5 leaf stage. Repeat applications within 10- 14-day intervals.
	1			4	8	Make application between flower bud initiation and first bloom.

*In-Furrow: Apply at planting in the seed furrow or 2 inches beside and 2 inches below seed or with a strip till machine 3 inches below the seed. ADVANTIGRO II may be applied with or without fertilizers, pesticides, or other agricultural products. See "Tank Mixing" section for further instructions on tank mixes. **NOTE:** If seed being planted has been treated with ADVANTIGRO II, do not apply this product as an in-furrow treatment.

LEGUME VEGETABLES (SUCCULENT OR DRIED) GROUP						
Crop	No. of Applications	Rate (fl oz per acre) by Type of Application				Application Timing for Banded & Broadcast/Foliar Sprays
		In-Furrow	Transplant Water	Banded	Broadcast/Foliar	
Soybeans	1	2-8*		5	8	Make application at V4-V8 (3-7 trifoliolate).
	2			4	4	Make application at V4-V8 (3-7 trifoliolate). Repeat applications within 10-17-day intervals.
Other Legumes (Succulent or Dried) (including Fava beans, Field peas, Garbanzo bean, Lentils)	1	2-8*		4	8	Make application between 3rd trifoliolate leaf stage and flower bud formation.
	2-3			3	4	Make first application at 3rd trifoliolate leaf stage. Repeat applications within 7-10-day intervals.
	4-6			2	3	Make first application at 2nd trifoliolate leaf stage. Repeat applications within 7-14- day intervals.

*In-Furrow: Apply at planting in the seed furrow or 2 inches beside and 2 inches below seed or with a strip till machine 3 inches below the seed. ADVANTIGRO II may be applied with or without fertilizers, pesticides, or other agricultural products. See "Tank Mixing" section for further instructions on tank mixes. **NOTE:** If seed being planted has been treated with ADVANTIGRO II, do not apply this product as an in-furrow treatment.

OILSEED GROUP						
Crop	No. of Applications	Rate (fl oz per acre) by Type of Application				Application Timing for Banded & Broadcast/Foliar Sprays
		In-Furrow	Transplant Water	Banded	Broadcast/Foliar	
Canola	3	2-8		4	6	Make first application at 3-5 leaf stage. Repeat applications within 10-14-day intervals.
Cotton	3-4			3	4	Make first application at 3-5 leaf stage. Repeat applications within 7-10-day intervals.
	2-3			3	4	Make first application at early bloom. Repeat applications within 7-14-day intervals.

OTHER CROPS						
Crop	No. of Applications	Rate (fl oz per acre) by Type of Application				Application Timing for Banded & Broadcast/Foliar Sprays
		In-Furrow	Transplant Water	Banded	Broadcast/Foliar	
Hops	1		0.5-1.0 fl oz per gal water			Application method: Plant dips for young plantings just prior to planting.
	2-3				2-8	Timing: First growth of the season. Application method: Apply initial treatment by drip when crowns break dormancy and repeat 2-3 times with irrigation events on a 2-3-week interval.
	2-3				4-8	Application method: Foliar, apply on a 2-3-week interval when first growth begins & repeat application 2-3 weeks later.
Peanuts	4-6	2-8*		3	4	An early application may be made at 3-4 true leaf stage. Subsequent applications should begin approximately 30 days after planting and may be repeated on 7-14-day intervals.
Tobacco	2		0.5-1.0 fl oz per gal water or 2- 8 fl oz per acre	5	8	Transplants: For use prior to or at transplanting see notation for transplants in Transplant section of this label. Make first foliar application approximately 40 days after planting. A second application can be made following topping.

* In-Furrow: Apply at planting in the seed furrow or 2 inches beside and 2 inches below seed or with a strip till machine 3 inches below the seed. ADVANTIGRO II may be applied with or without fertilizers, pesticides, or other agricultural products. See "Tank Mixing" section for further instructions on tank mixes. **NOTE:** If seed being planted has been treated with ADVANTIGRO II, do not apply this product as an in-furrow treatment.

POME FRUITS						
Crop	No. of Applications	Rate (fl oz per acre) by Type of Application				Instructions for Application Timing for Banded & Broadcast/Foliar Sprays
		In-Furrow	Transplant Water	Banded	Broadcast/Foliar	
Pome Fruit Crops (Apple, Pear, and others) *	1		0.5-1.0 fl oz per gal water			For root dips on young tree plantings just prior to planting.
	1		16-32 fl oz per 100 gal			Apply as a drench to the soil at or just after planting for new plantings
	2-3				4-8	For chemigation through drip or other irrigation on planted non-bearing trees; make 2-3 applications 14-21 days apart beginning with root flush in the spring.
	1-3				4-8	For foliar applications on non-bearing trees only: Apply 1-3 times beginning after leaves have formed & spaced 14-21 days apart.

*Only apply to young trees that will not be producing fruit the year of application.

ROOT AND TUBER VEGETABLES GROUP						
Crop	No. of Applications	Rate (fl oz per acre) by Type of Application				Application Timing for Banded & Broadcast/Foliar Sprays
		In-Furrow	Transplant Water	Banded	Broadcast/Foliar	
Beets, Sugar	1	2-8*		8	16	Foliar application: 6-8 leaf stage.
	2-3			4	8	Make first application at 2 leaf stage. Repeat applications within 7-14-day intervals.
Potatoes	1	2-8*		8	16	Apply at tuber initiation.
	3			4	8	Make first application at stolon formation (8-10 leaf stage). Repeat applications within 10-14-day intervals.

*In-Furrow: Apply at planting in the seed furrow or 2 inches beside and 2 inches below seed or with a strip till machine 3 inches below the seed. ADVANTIGRO II may be applied with or without fertilizers, pesticides, or other agricultural products. See "Tank Mixing" section for further instructions on tank mixes. **NOTE:** If seed being planted has been treated with ADVANTIGRO II, do not apply this product as an in-furrow treatment.

STALK, STEM AND LEAF PETIOLE VEGETABLE						
Crop	No. of Applications	Rate (fl oz per acre) by Type of Application				Application Timing for Banded & Broadcast/Foliar Sprays
		In-Furrow	Transplant Water	Banded	Broadcast/Foliar	
Asparagus	2				8-12	8 fl oz. Apply monthly during fern growth. 12 fl oz. Apply to fern 2 weeks after last harvest

STONE FRUIT						
Crop	No. of Applications	Rate (fl oz per acre) by Type of Application				Instructions for Application Timing for Banded & Broadcast/Foliar Sprays
		In-Furrow	Transplant Water	Banded	Broadcast/Foliar	
Stone Fruit Crops (such as Cherries, Peaches, and others)*	1		0.5-1.0 fl oz per gal water			For root dips on young tree seedlings just prior to planting.
	1		16-32 fl oz per 100 gal			Apply as a drench to the soil at or just after planting for new plantings.
	2-3				4-8	For chemigation through drip or other irrigation on planted non-bearing trees: Make 2-3 applications 14-21 days apart beginning with root flush in the spring.
	1-3				4-8	Foliar for non-bearing trees only: Apply 1-3 times beginning after leaves have formed & spaced 14-21 days apart.

*Only apply to young trees that will not be producing fruit the year of application.

TREE NUTS						
Crop	No. of Applications	Rate (fl oz per acre) by Type of Application				Instructions for Application Timing for Banded & Broadcast/Foliar Sprays
		In-Furrow	Transplant Water	Banded	Broadcast/Foliar	
Tree Nut Crops (such as Almonds, Hazelnuts/Filberts, Pecans, Pistachios, Walnuts, and others)	1		0.5-1.0 fl oz per gal water			For root dips on young tree plantings just prior to planting.
	1		16-32 fl oz per 100 gal			For new plantings: Apply as a drench to the soil at or just after planting.
	2-3				4-8	For chemigation through drip or other irrigation on planted tree: Make 2-3 applications 14-21 days apart beginning with root flush in the spring.
	1-3				4-8	Foliar: Apply 1-3 times beginning after leaves have formed & spaced 14-21 days apart.

TROPICAL AND SUBTROPICAL FRUIT, EDIBLE PEEL GROUP						
Crop	No. of Applications	Rate (fl oz per acre) by Type of Application				Instructions for Application Timing for Banded & Broadcast/Foliar Sprays
		In-Furrow	Transplant Water	Banded	Broadcast/Foliar	
Olives	1 or more				2-8	Make applications beginning at bud break. Repeat applications can be made every 7-21 days through harvest.

TROPICAL AND SUBTROPICAL FRUIT, INEDIBLE PEEL GROUP						
Crop	No. of Applications	Rate (fl oz per acre) by Type of Application				Instructions for Application Timing for Banded & Broadcast/Foliar Sprays
		In-Furrow	Transplant Water	Banded	Broadcast/Foliar	
Bananas	10			4-8		Apply in a band around the root mat and repeat every 10-14 days for a total of 10 applications.
Pineapples	1 or more				See Instructions for Application	Method 1: After transplanting, spray at a rate of 4-8 fl oz per 100 gal of water. Repeat applications within 10-14-day intervals. Method 2: Applications of 4-8 fl oz per acre may be applied through irrigation system.
Pomegranates	1 or more				2-8	Make applications beginning at bud break. Repeat applications can be made every 7-21 days through harvest.

SPECIMEN

YOUNG TREES, ORNAMENTALS, SOD & TURF						
Crop	No. of Applications	Rate (fl oz per acre) by Type of Application				Application Timing for Banded & Broadcast/Foliar Sprays
		In-Furrow	Transplant Water	Banded	Broadcast/Foliar	
Christmas Trees	1		0.5-2.0 fl oz per gal water			For root dips on young tree plantings just prior to planting.
	1		16-32 fl oz per 100 gal			For new plantings: Apply as a drench to the soil at or just after planting.
	2-3				8-32	For chemigation through drip or other irrigation on planted trees: Make 2-3 applications 14-21 days apart beginning with root flush in the spring.
	2-3				8-16	Begin foliar applications in early spring when the first root flush begins & repeat in mid-summer when limb/shoot growth begins and make a 3rd application in the fall when another root flush occurs.
Flowering plants (Azaleas, Roses, etc.)	1					Once per year, mix 4 fl oz of Stock Solution in 1 gal water. Apply the 1 gal mix around the rooting zone of the plant, preferably in the spring. (Stock Solution = 1 fl oz of ADVANTIGRO II/2 gal water).
Shrubs, Established	2-3				1 fl oz per 2-gal water	Spray foliage with a solution of ADVANTIGRO II (1 fl oz ADVANTIGRO II per 2 gal of water) to the point of run-off. This may be applied to shrubs 2-3 times per year to increase vigor, growth and healthy appearance.
Sod*	1				8	Apply as a broadcast application to improve growth and rooting.
	2				4	Apply 4 fl oz per acre after harvest to speed up regrowth. A repeat application may be made 6 weeks after the first application to continue to boost regrowth.
Turf*	1-2				2 fl oz per 5000 sq ft	After sod/turf has been laid, apply 2 fl oz per 5000 sq ft to help with root growth. A repeat application can be made 30 days after the first application.

*DO NOT apply this product through any type of irrigation system for used in sod or turf.

TRANSPLANT INSTRUCTIONS

ADVANTIGRO II may be used in a transplant solution to reduce transplant shock, promote root growth and early plant health. This solution may be used with vegetable and row crops transplants as noted in the Tables above.

If using either method of treating transplants below, a foliar application should not be made at transplanting or within 7 days of transplanting. Treatment of vegetable and crop transplants may be handled by either of two methods as follows. Do not use both methods on the same transplants.

1. Transplants may be dipped into or drenched with a solution made by adding 0.5 to 1 fl oz of ADVANTIGRO II per 2 gal of water. The transplants may be dipped into the solution prior to transplanting, or the solution may be used to drench the transplant trays/flats prior to transplanting. The amount of solution used for this drench should be just enough wet the soil to the point where the solution will just begin to drip through the plug but not over saturate it. The soil/media in the trays should be moist but not saturated when the dip or drench application is made.
2. ADVANTIGRO II may be added to the transplant water applied at the time of transplanting. A rate of 2-8 fl oz per acre of this product may be applied in the transplant water (see specific crop recommendations for specific rates by crop in the Table(s) above for the specific crop. It should be determined how much transplant water is being applied per acre when the transplants are being set. Then add the desired amount of this product to be applied per acre to the amount of transplant water to be used per acre. When treating a new variety or a crop for which the grower does not have prior experience the grower should test a small area of that crop to determine the best rate to apply for that crop and variety in their production system before treating a large area.

Transplant solutions may also be used with young trees and ornamental plants at the time of transplanting. Transplant solution is made by adding 1 fl oz of ADVANTIGRO II per 2 gal of water. Instructions for application of this solution to young trees and ornamental transplants is as follows:

1. Bare (naked) roots – Dip roots or spray stock solution onto root mass.
2. Balled plants – Spray root ball of plants at time of transplanting.
3. Foliage – Foliage can be lightly misted at the time of transplanting.
4. Furrow planting – Apply 1 gal of stock solution in-furrow per acre.

SEED TREATMENT

ADVANTIGRO II may only be used as a treatment on seeds for crops listed on this label (i.e., corn, soybeans, rice, cotton, wheat, etc.). Treated seed may not be used for food, feed or oil purposes. If this product is intended for commercial seed treatment, the treated seed must be labeled in accordance with the requirements of the Federal Seed Act and applicable State Seed Laws. An approved dye must be added to distinguish treated seed and prevent inadvertent use for food, feed or oil purposes. If this product is intended for “at planting” use, treat only those seeds needed for immediate use and planting. Do not store excess treated seed beyond planting time. Dispose of excess treated seed by burial away from streams and bodies of water. A dye is not required for this type of use. Application instructions are as follows: Apply 2 to 4 fl oz per 100 lbs of seed to be treated. Dilute this product with water and mist the seed while mixing. DO NOT store the seed wet as germination can be reduced if not planted soon after treatments.

GENERAL CHEMIGATION INSTRUCTIONS

Apply this product only through center pivot, lateral move, side (wheel) roll, traveler, big gun, solid set, hand move, or furrow irrigation systems. Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.

If you have questions about calibration, contact your State Extension Service specialists, equipment manufacturers or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.

A person knowledgeable of the chemigation system and responsible for its operation, or under supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Maintain agitation in the supply tank while adding the required amount of ADVANTIGRO II, and throughout the application. This product should be added to the supply tank at the end of water application (prior to last complete cycle in moving systems).

The correct amount of ADVANTIGRO II to add is calculated as the rate in fl oz per acre x the number of acres covered by the contents of the supply tank. For example, if the supply tank covers ten acres and the rate on the label for that crop is 2 fl oz per acre, add $10 \times 2 = 20$ fl oz to the supply tank at the beginning of the last full cycle.

CHEMIGATION SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS:

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with the pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment. Agitate the pesticide supply tank contents throughout the application of ADVANTIGRO II. Apply this product at the end of the water application in a sufficient amount of water to allow proper coverage of plant or crop and allow the entire intended dose of this product to be applied before the system is shut down. The rate applied during the chemigation procedure must not exceed the maximum use rate of this product allowed for that crop per acre per application.

IN-FURROW CHEMIGATION:

1. Systems using a gravity flow pesticide dispensing system must meter the pesticide into the water at the head of the field and downstream of a hydraulic discontinuity such as a drop structure or weir box to decrease potential for water source contamination from backflow if water flow stops.
2. Systems utilizing a pressurized water and pesticide injection system must meet the following requirements:
 - a) The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
 - b) The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
 - c) The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
 - d) The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

- e) The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- f) Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Maintain agitation in the supply tank while adding the required amount of ADVANTIGRO II, and throughout the application. Add this product to the supply tank at the end of water application (prior to last complete cycle in moving systems).

The correct amount of ADVANTIGRO II to add is calculated as the rate in fl oz per acre x the number of acres covered by the contents of the supply tank. For example, if the supply tank covers ten acres and the rate on the label for that crop is 2 fl oz per acre, add $10 \times 2 = 20$ fl oz to the supply tank at the beginning of the last full cycle.

SPRINKLER CHEMIGATION:

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to a point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Maintain agitation in the supply tank while adding the required amount of ADVANTIGRO II, and throughout the application. Add this product to the supply tank at the end of water application (prior to last complete cycle in moving systems).

The correct amount of ADVANTIGRO II to add is calculated as the rate in fl oz per acre x the number of acres covered by the contents of the supply tank. For example, if the supply tank covers ten acres and the rate on the label for that crop is 2 fl oz per acre, add $10 \times 2 = 20$ fl oz to the supply tank at the beginning of the last full cycle.

Apply ADVANTIGRO II at the end of the irrigation period in a sufficient amount of water to allow proper coverage of the plant or crop and allow the entire intended dose of this product to be applied before the system is shut down. The rate applied during the chemigation procedure must not exceed the maximum use rate of this product allowed for that crop per acre per application.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in original container only. Do not store in direct sunlight. Avoid freezing temperatures. After partial use, close the container tightly. Store in a secure place that is cool and dry. Use spray and stock solutions within 24 hours. Immediate use is required if another component is added to the spray solution.

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

CONTAINER HANDLING: NONREFILLABLE 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 or reconditioning, if available, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

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 the product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

ALL STATEMENTS MADE HEREIN ARE SUBJECT TO APPLICABLE LAW, AND TO THE EXTENT THERE IS ANY INCONSISTENCY OR CONTENTION, APPLICABLE LAW SHALL GOVERN.

The Directions for Use of the 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 many different factors including, without limitation, manner of use or application, weather, combination with other products, or crop conditions. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Manufacturer and Seller harmless from any claims relating to such factors.

Seller warrants that this product conforms to the chemical description on the label. EXCEPT FOR THIS WARRANTY, THE PRODUCT IS FURNISHED "AS-IS", AND NEITHER SELLER NOR MANUFACTURER MAKES ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, WITH RESPECT TO THE SELECTION, PURCHASE OR USE OF THIS PRODUCT; SELLER AND MANUFACTURER SPECIFICALLY DISCLAIM ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE BEYOND WHAT IS STATED ON THE LABEL. Buyer and User accept all risks arising from any use of this product, including without limitation, uses contrary to label instructions, or under conditions not reasonably foreseeable to (or beyond the control of) Seller or Manufacturer.

Neither Manufacturer nor Seller shall be liable for any incidental, consequential or special damages resulting from the use or handling of this product. THE EXCLUSIVE REMEDY OF THE BUYER OR USER, AND THE EXCLUSIVE LIABILITY OF MANUFACTURER 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 THIS PRODUCT, OR, AT THE ELECTION OF MANUFACTURER OR SELLER, THE REPLACEMENT OF THE PRODUCT.

These Conditions of Sale and Limitation of Warranty and Liability shall be interpreted, unless otherwise required by the law of the state of purchase, in accordance with the laws of the State of California, excluding its conflicts of laws rules, and may not be amended by any oral or written agreement.

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