



ADVANTIGRO™

Plant growth stimulant for use on field crops and vegetable crops

ACTIVE INGREDIENTS:

Cytokinin (as kinetin)	0.009%
Indole Butyric Acid.....	0.005%
Gibberellic Acid (A ₃)	0.005%

OTHER INGREDIENTS: 99.981%

TOTAL: 100.000%

Contains 0.0008 lb. cytokinin/gallon
Contains 0.0004 lb. indole butyric acid/gallon
Contains 0.0004 lb. gibberellic acid/gallon

EPA Reg. No. 62097-43-2935

EPA Est. No. 70815-GA-001

KEEP OUT OF REACH OF CHILDREN

PRECAUTIONARY STATEMENTS

PERSONAL PROTECTIVE EQUIPMENT (PPE)

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 exist, use detergent and hot water. Keep and wash PPE items separately from other laundry.

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.

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.

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 wash waters or rinsate. Exposed treated seed may be hazardous to birds and other wildlife. Treat only those seeds needed for the 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.

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 requirement 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 the label about personal protective equipment (PPE) and restricted entry intervals. The requirements in this box only apply to uses of this product 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

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

- **ADVANTIGRO** can be tank mixed and applied with in-furrow fertilizers to improve germination and early season growth. All possible combinations of fertilizers with **ADVANTIGRO** have not been tested. As such, perform a test mix of the materials to be used in the tank mix with **ADVANTIGRO**, 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 could result in crop injury or lack of performance.
- Tank mixes of **ADVANTIGRO** and in-furrow fertilizers must be mixed thoroughly and applied within 1 day of mixing. Agitation must be maintained to assure proper dispersal of the **ADVANTIGRO** in the fertilizer.
- Apply **ADVANTIGRO** utilizing properly calibrated application equipment. Failure to do so may result in an improper application to the crop which could 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**.
- This product cannot be used to formulate or reformulate any other pesticide product.

COMPATIBILITY

Conduct a compatibility test when you plan to mix **ADVANTIGRO** with other products. To determine the physical compatibility of **ADVANTIGRO** with other products, use a jar test. Using a quart jar, add the proportionate amounts of the products 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 is soluble in water but can also be mixed directly into many liquid fertilizers for use in-furrow at planting. **ADVANTIGRO** can 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**, 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 can 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 and in-furrow fertilizers must be mixed thoroughly and applied within 1 day of mixing. Agitation must be maintained to assure proper dispersal of the ADVANTIGRO 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 IS NOT A FERTILIZER. USE IN COMBINATION WITH A GOOD FERTILIZER PROGRAM WHERE INDICATED.

Apply **ADVANTIGRO** by ground or air. If applied by air, use 2-5 gallons of water per acre. If applied by ground, use 5-25 gallons of water per acre. For turf grass, apply **ADVANTIGRO** by ground using 0.2-0.5 gallons of water per 1,000 square feet.

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

Table 1. Crop Application Rates and Application Instructions: FIELD CROPS

Crop	No. of Applications	Rate (fl. oz./Acre) by Type of Application			Application Timing for Banded & Broadcast/Foliar Sprays
		In-Furrow	Banded	Broadcast/Foliar	
Beets, Sugar	1	2-8	8	16	6-8 leaf stage.
	2-3		4	8	Make first application at 2 leaf stage. Repeat applications can be made on 7-14 day intervals
Corn	1	2-8	5	6-8	2-6 leaf stage.
	1		4	8	Apply during flowering from initiation of flowering to end of bloom stage.
Cotton	3-4		3	4	Make first application at 3-5 leaf stage. Repeat applications can be made on 7-10 day intervals.
	2-3		3	4	Make first application at early bloom. Repeat applications can be made on 7-14 day intervals.
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 can be made on 10-17 day intervals.

Table 2. Crop Application Rates and Application Instructions: VEGETABLE CROPS

Crop	No. of Applications	Rate (fl. oz./Acre) by Type of Application			Application Timing for Banded & Broadcast/Foliar Sprays
		In-Furrow	Banded	Broadcast/Foliar	
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 can be made on 7-21 day intervals through end of tasseling.
Cucumbers	1	2-8	4	8	Make application between flower bud initiation and first bloom.
	2-3		3	4	Make first application between flower bud initiation and first bloom. Repeat applications can be made on 7-10 day intervals.
	3-4		3	4	Direct Seeded: First application at 3-4 leaf stage. Repeat applications can be made on 7-10 intervals.
Melons	2-3	2-8	3	4	Make first application at flower bud initiation. Repeat applications can be made on 7-10 intervals.
	4-6		2	3	Make first application 2 weeks after emergence. Repeat applications can be made on 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 can be made on 10-14 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 can be made on 7-10 day intervals.
	4-6		2	3	Make first application at 2 weeks after emergence. Repeat applications can be made on 7-14 day intervals.

Table 3. Description of In-Furrow Application for Crops Listed

Crop	In-Furrow Rate	Application Timing/Directions
All crops listed in FIELD CROPS & VEGETABLE CROPS tables above with In-Furrow entry.	2 to 8 fl. oz./A	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 can 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, do not apply ADVANTIGRO as an in-furrow treatment.

SEED TREATMENT:

ADVANTIGRO may only be used as a treatment on seeds for crops listed on this label (i.e., corn, soybeans, cotton, 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 seed 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 2-4 fl. oz./100 lbs of seed to be treated. Dilute the **ADVANTIGRO** 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**, and throughout the application. **ADVANTIGRO** 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** to add is calculated as the rate in fluid ounces per acre multiplied by 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 fluid ounces per acre, add $10 \times 2 = 20$ fluid ounces 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**. Apply **ADVANTIGRO** 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 **ADVANTIGRO** to be applied before the system is shut down. The rate applied during the chemigation procedure must not exceed the maximum use rate of **ADVANTIGRO** 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**, and throughout the application. Add **ADVANTIGRO** to the supply tank at the end of water application (prior to last complete cycle in moving systems).

The correct amount of **ADVANTIGRO** to add is calculated as the rate in fluid ounces per acre multiplied by 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 fluid ounces per acre, add $10 \times 2 = 20$ fluid ounces 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**, and throughout the application. Add **ADVANTIGRO** to the supply tank at the end of water application (prior to last complete cycle in moving systems).

The correct amount of **ADVANTIGRO** to add is calculated as the rate in fluid ounces per acre multiplied by 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 fluid ounces per acre, add $10 \times 2 = 20$ fluid ounces to the supply tank at the beginning of the last full cycle.

Apply **ADVANTIGRO** 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 **ADVANTIGRO** to be applied before the system is shut down. The rate applied during the chemigation procedure must not exceed the maximum use rate of **ADVANTIGRO** allowed for that crop per acre per application.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or 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: *(for container sizes 5 gallons or less)* **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 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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F-012817

**In Case of Emergency, Call CHEMTREC:
(800) 424-9300**

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NET CONTENTS: 2.5 GALLONS