

PM 91

70810-3

11-4-98

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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Biopesticides and Pollution Prevention Division (7511C)
401 M Street, S.W.
Washington, DC 20460

EPA Reg. Number:
70810-3

Date of Issuance:
NOV - 4 1998

NOTICE OF PESTICIDE:

Registration
 Reregistration

(under FIFRA, as amended)

Term of Issuance: Unconditional

Name of Pesticide Product:
AK AuxiGro Wettable
Powder

Name and Address of Registrant (include ZIP Code):

Auxein Corporation
P.O. Box 27519
3125 Sovereign Dr., Suite B
Lansing, MI 48909-0519

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is unconditionally registered in accordance with FIFRA Sec. 3(c)(5) provided you:

1. Submit and /or cite all data required for registration/reregistration of your product under FIFRA Sec.3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA Sec.4.
2. Revise the EPA Registration Number to read, "EPA Reg. No. 70810-3". Add 4 oz. and 2-4 oz. on page 4 as indicated.
3. Submit three(3) copies of the revised final printed label for the record.

If these conditions are not complied with, this registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

Signature of Approving Official:

Date:

11/4/98

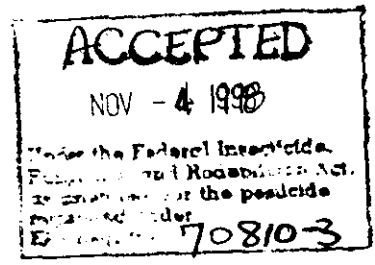
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AK AuxiGro™ WETTABLE POWDER

PLANT METABOLIC PRIMER FOR INCREASED YIELD AND QUALITY

EPA Registration Number 70810-3



Active Ingredients:	
GABA: gamma aminobutyric acid	29.2 %
L-Glutamic acid	29.2 %
Other Ingredients	41.6 %
TOTAL	100.0 %

(1 pound contains 0.5 pounds of active ingredient)
 (5 pounds contains 3 pounds of active ingredient)

**KEEP OUT OF REACH OF CHILDREN
 CAUTION!; PRECAUTION!**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
 (If you do not understand this label, find someone to explain it to you in detail.)

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMAN AND DOMESTIC ANIMALS -

CAUTION

Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling.

STATEMENT OF PRACTICAL TREATMENT

IF ON SKIN: Wash with plenty of soap and water. Get medical attention if irritation persists.
 IF IN EYES: Flush eyes with plenty of water. Call physician if irritation persists.

Personal Protective Equipment (PPE). Applicators and other handlers must wear:

- long sleeve shirt and long pants
- shoes plus socks
- protective eyewear

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

User Safety Recommendations:
 User should:
 ■ Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
 ■ Remove clothing immediately if product gets inside. Then wash thoroughly and put on clean clothing.

Environmental Hazards

DO NOT apply directly to water or areas where surface water is present, or to intertidal areas below the mean high water mark.
 DO NOT contaminate water when cleaning equipment or disposing of equipment washwaters.

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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 agency responsible for pesticide regulation. DO NOT apply this product through any type of irrigation equipment. Please see package insert on bottom of bag for complete Directions For Use.

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, notifications and emergency assistance. It also contains specific instructions and exceptions pertaining to the restricted-entry intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Re-Entry Statement:

Do not enter or allow worker entry into treated areas without protective clothing during the restricted-entry interval (REI) of 4 hours.

For Early Entry

For early entry into treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated (plants, soil) wear:

- ◆ Long sleeve shirt and long pants
- ◆ Shoes plus socks
- ◆ Protective eyewear

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of 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 treated areas without protective clothing within 4 hours of application.

Observe all cautions and limitations on this label and on the labels of products used in combination with Auxigro WP. Do not use Auxigro WP other than in accordance with the instructions set forth on this label. The use of Auxigro WP not consistent with this label may result in injury to crops.

GENERAL INFORMATION

Auxigro WP can be applied on all labeled crops per label application instructions (Directions for Use). When used as directed, Auxigro WP has been shown to increase yields of crops. Auxigro WP applications have also resulted in (PRODUCT BENEFITS) increased size and/or quality of treated commodities, early ripening in certain vegetables, increased root growth, early flowering, and fruit set, faster seed germination and rooting, and improved total yield.

MIXING INSTRUCTIONS

Mixing of Auxigro WP: Fill the spray tank one-half full to three-quarters full with clean water. Use a calibrated device to weigh the required amount of Auxigro WP. Add Auxigro WP to the spray tank while agitating. Add other products, adjuvants or surfactants and then fill the remainder of the tank with water.

Tankmix combinations with Auxigro WP: When Auxigro WP is used in combination with other

products, refer to the respective labels for rates and methods of application, proper timing, disease, weeds or insects controlled, restrictions and precautions. Always use in accordance with the most restrictive label restrictions and precautions. Do not exceed any label dosage.

Compatibility Testing: Auxigro WP is compatible with most commonly used agricultural fungicides, insecticides, micronutrients and spray adjuvants. If compatibility with another product is unknown, a jar test for physical compatibility should be conducted before field mixtures are made. Read and recognize all cautions and limitations on labeling of all products used in mixtures.

Adjuvants and Surfactants: Use a silicone-based surfactant at the lowest recommended label rates for PGRs or foliar sprays (typically 4 to 6 ounces surfactant per 100 gallons). If Auxigro WP is tank-mixed with other products which prohibit surfactant use, do not use a surfactant.

Mixing containers, hoses and spraying equipment should be cleaned or triple rinsed prior to mixing Auxigro WP for application.

Ground Application of Auxigro WP: Apply uniformly with properly calibrated ground equipment in 20 to 100 gallons of water per acre. Application volume and pressure may increase, based on the size of plants being treated. Hollow cone nozzles are recommended. However, other types of nozzles which achieve uniform wetting of the entire plant canopy are acceptable.

Allow heavy dew to evaporate prior to Auxigro WP applications. Do not apply Auxigro WP if windy conditions exist or a strong threat of rain exists within 4 hours of application.

Aerial application for field and vegetable crops: Thorough spray coverage is required for maximum benefit. To achieve good coverage, use proper droplet size, spray uniformly, and ensure swath width and spray volume are correct. Do not use less than 5 gallons total spray volume per acre.

APPLICATION INSTRUCTIONS

Auxigro WP can effectively enhance plant development and growth of numerous plant species. Applications of Auxigro may begin at seeding (or transplanting) and continue until harvest. For optimal yield response, apply Auxigro WP postemergence according to the application timings and rates provided in the table below. Multiple applications (with fungicides) may be made at a rate of 1-3 ounces (per application). Total season application should not exceed 24 ounces per acre.

All rates of Auxigro WP are expressed as broadcast rates. If crop growth stage permits band treatments, use proportionally less. Rates are expressed as pounds formulated product per acre, per application, except as noted.

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CROP Application Timing	Rate/Acre/ Application
<p>Grapes:</p> <p>To enhance Brix levels of bearing grapes:</p> <p>Apply AuxiGro at (a rate of) 4 oz/A at full bloom (beginning of berry development). Make a second 4 oz/A AuxiGro application at veraison (beginning of ripening).</p> <p>For bearing and non-bearing grapes, AuxiGro may be applied at 2 - 4 oz/A prebloom until harvest (on a regular basis) to enhance plant growth and vigor. Total applications should not exceed 24 oz per season.</p> <p>All applications should be made in application volumes adequate to ensure uniform coverage of the leaf area.</p>	<p>4 oz.</p> <p>2-4 oz</p>
<p>Snap Beans (Phaseolus spp) (Field) (kidney) (lima) (navy) (pinto) (runner) (snap) (wax)</p> <p>First application: Apply 5 oz. 5-7 days after first pod formation in canopy. (one application only)</p> <p>Second application: Not applicable.</p> <p><i>Florida use only:</i> <i>(Two applications)</i></p> <p>First application: Apply 4 oz. AuxiGro WP prebloom.</p> <p>Second application: Apply 4 oz. AuxiGro at full bloom (early pinning).</p>	<p>5 oz.</p> <p>4 oz.</p>
<p>Crop Group 5: Cole crops (Representative commodities: Broccoli, cabbage, cauliflower, brussel sprouts)</p> <p><i>(Two applications)</i></p> <p>First application: Apply 4 - 16 oz. AuxiGro WP at 8 - 10 leaf stage.</p> <p>Second application: Apply 4 - 16 oz. AuxiGro WP 14 - 21 days after first application at first sign of head formation.</p>	<p>4 - 16 oz.</p>
<p>Green Peppers</p> <p><i>(Two applications)</i></p> <p>First application: Apply 4 - 8 oz. AuxiGro WP at first fruit set in canopy.</p> <p>Second application: Apply 4 - 8 oz. AuxiGro WP 14 - 16 days after first application.</p>	<p>4 - 8 oz.</p>
<p>Head lettuce (iceberg)</p> <p><i>(Two applications)</i></p> <p>First application: Apply 8 oz. AuxiGro WP immediately after thinning (4 - 6 true leaves).</p> <p>Second application: Apply 8 oz. AuxiGro WP 7 - 14 days after first application at first sign of head cupping.</p>	<p>8 - 12 oz. (8 oz.)</p>

Leaf lettuce (romaine, butter)	4 - 8 oz. (8 oz.)
<i>(Two applications)</i>	
First application:	Apply 8 oz. AuxiGro WP immediately after thinning (4 - 6 true leaves).
Second application:	Apply 8 oz. AuxiGro WP 7 - 14 days after first application at first sign of head cupping.
Peanuts	5 oz.
<i>(Two applications)</i>	
First application:	Apply 5 oz. AuxiGro WP at 2 - 4 trifoliates.
Second application:	Apply 5 oz. AuxiGro WP at 18 - 20 trifoliates (approximately 25 - 30 days after initial application, full bloom).
Potatoes	5 oz.
<i>(Two applications)</i>	
First application:	Apply 5 oz. AuxiGro WP at first tuber initiation (hocking).
Second application:	Apply 5 oz. AuxiGro WP 14 - 21 days after first application, immediately prior to row closure.
Spinach	4 - 8 oz.
<i>(Two applications)</i>	
First application:	Apply 4 - 8 oz. AuxiGro WP immediately after thinning.
Second application:	Apply 4 - 8 oz. AuxiGro WP 7 - 10 days after first application.
Tomatoes (processing) (fresh)	4 oz.
<i>(Two applications)</i>	
First application:	Apply 4 oz. AuxiGro WP at first fruit set in canopy (full bloom).
Second application:	Apply 4 oz. AuxiGro WP 10 - 14 days after first application.
Crop Group 1: Root and Tubers	4 - 8 oz.
(Representative commodities: carrot, potato, radish, and sugar beet)	
(Rates apply to root and tuber crops other than potatoes)	
<i>(Two applications)</i>	
First application:	For crops requiring thinning, apply within 7 days after thinning. For others, apply at first tuber initiation.
Second application:	On radishes, apply 7 - 14 days after first application. On carrots and sugar beets, apply 30 - 60 days after first application.
Crop Group 3: Bulb Vegetables	4 - 8 oz.
(Representative commodities: onion, green; and onion, dry bulb)	
<i>(Two applications)</i>	
First application:	Apply at 2 nd true leaf state.
Second application:	Apply 14 - 21 days after first application.

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<p>Crop Group 4: Leafy Vegetables (Representative commodities: celery, head lettuce, leaf lettuce, and spinach)</p> <p><i>(Two applications)</i> First application: Apply immediately after thinning or transplant Second application: Apply 7 - 21 days after first application.</p>	<p>4 - 8 oz.</p>
<p>Crop Group 6: Legume Vegetables (Representative commodities: <u>Phaseolus spp.</u>; one succulent cultivar and one dried cultivar); pea (<u>Pisum spp.</u>; one succulent cultivar and one dried cultivar); and soybean.</p> <p><i>(Two applications)</i> First application: Apply 5 - 7 days after first pod formation. Second application: Apply 7 - 14 days after first application.</p>	<p>4 - 8 oz.</p>
<p>Crop Group 8: Fruiting Vegetables (Representative commodities: tomato, bell pepper, and one cultivar of non-bell pepper)</p> <p><i>(Two applications)</i> First application: Apply 4 - 8 oz. Auxigro WP at first fruit set in canopy (full bloom). Second application: Apply 4 - 8 oz. Auxigro WP 10 - 14 days after first application.</p>	<p>4 - 8 oz.</p>
<p>Crop Group 9: Cucurbit vegetables (Representative commodities: cucumber, muskmelon, and summer squash)</p> <p><i>(Two applications)</i> First application: Apply 4 - 8 oz. Auxigro WP at bud formation (first bloom). Second application: Apply 7 - 21 days after first application.</p>	<p>4 - 8 oz.</p>
<p>Crop Group 10: Citrus Fruits (Representative commodities: sweet orange, lemon and grapefruit)</p> <p><i>(Two applications)</i> First application: Apply at first fruit set. Second application: Apply 4 - 8 weeks after first application.</p>	<p>2 - 8 oz/100 gal.</p>
<p>Crop Group 11: Pome Fruits (Representative commodities: apple and pear)</p> <p><i>(Two applications)</i> First application: Apply at first fruit set. Second application: Apply 4 - 8 weeks after first application.</p>	<p>2 - 8 oz/100 gal.</p>
<p>Crop Group 12: Stone Fruits (Representative commodities: sweet cherry or tart cherry, peach, and plum or fresh prune)</p> <p><i>(Two applications)</i> First application: Apply at first fruit set. Second application: Apply 4 - 8 weeks after first application.</p>	<p>2 - 8 oz/100 gal.</p>

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<p>Crop Group 13: Berries Group (Representative commodities: blackberry or any one raspberry, and blueberry)</p> <p><i>(Two applications)</i> First application: Apply at first fruit set. Second application: Apply 2-4 weeks after first application.</p>	2 - 8 oz./100 gal.
<p>Crop Group 14: Tree Nuts Group (Representative commodities: almond and pecan)</p> <p><i>(Two applications)</i> First application: Apply at first fruit set. Second application: Apply 4 - 8 weeks after first application.</p>	2 - 8 oz./100 gal.
<p>Crop Group 15: Cereal grains group (Representative commodities: corn, rice sorghum, and wheat)</p> <p><i>(Two applications)</i> First application: On small grains (i.e., wheat, oats, rice, etc.) apply prior to tillering. On corn and sorghum, apply at V-4 to V-6 growth stage. Second application: On small grains, apply at boot stage. On corn and sorghum, apply at V-10 to V12 growth stage.</p>	4 - 8 oz.
<p>Crop Group 16: Forage, fodder and straw of cereal grains group (Representative commodities: corn, wheat, and cereal grains)</p> <p><i>(Two applications)</i> First application: On small grains (i.e., wheat, oats, rice, etc.) apply prior to tillering. On corn and sorghum, apply at V-4 to V-6 growth stage. Second application: On small grains, apply at boot stage. On corn and sorghum, apply at V-10 to V12 growth stage.</p>	4 - 8 oz.
<p>Crop Group 17: Grass forage, fodder, and hay</p> <p><i>(Two applications)</i> First application: Apply when new growth appears. Second application: Apply 4 weeks after first application.</p>	4 - 12 oz.
<p>Crop Group 18: Non-grass animal feeds</p> <p><i>(Two applications)</i> First application: Apply when new growth appears. Second application: Apply when new growth appears after cutting.</p>	4 - 8 oz.
<p>Crop Group 19: Herbs and Spices (Representative commodities: basil (fresh and dried), black pepper, chive, and celery seed or dill seed)</p> <p><i>(Two applications)</i> First application: Apply when new vegetative growth appears. Second application: Apply 14-21 days after first application.</p>	4 - 8 oz.

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Lawn and Turfgrasses (nonfood uses) (Kentucky bluegrass) (fescue (fine and tall)) (ryegrass (perennial)) (bentgrass) (bermudagrass) (buffalograss) (centipedegrass) (St. Augustinegrass) (zoysiagrass) (and) (other turfgrasses) Allow 14 days between applications, up to a maximum of 64 ounces (8 pounds) per year.*	2 - 8 oz.
Ornamentals (terrestrial nonfood uses) (trees) (shrubs) (woody vines) (ground covers) (perennials) (annuals) (bulbs) (evergreens) (ornamental grasses) (and) (bedding plants) Allow 14 days between applications, up to a maximum of 64 ounces (8 pounds) per year.	2 - 16 oz.

(Application rate should be based on crop size and total number of applications.)

(Completed AuxGro WP applications to any crop must not exceed a total application rate of 24 ounces of AuxGro WP per acre. (Examples: 2 applications at 12 oz./A or 3 applications at 8 oz./A = maximum rate))

(*AuxGro WP applications to turfgrass and ornamental plants must not exceed a total application rate of 28 oz. AuxGro WP per acre.)

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ROTATIONAL CROPS

All crops, turfgrasses, and ornamental plants may be safely planted at any time following an Auxigro WP application.

STORAGE AND DISPOSAL

DO NOT contaminate water, food, or feed by storage or disposal.

PRODUCT STORAGE: Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of reach of children, preferably in a locked storage area.

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

CONTAINER DISPOSAL: DO NOT reuse any part of the packaging. Dispose of all containers and packaging in a sanitary landfill, by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of the smoke.

CONDITIONS OF SALE AND WARRANTY

The label instructions for the use of this product are based on research and field use. The instructions are believed to be reliable and must be followed carefully. However, it is not possible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the use of, or application of the product contrary to label instructions, all of which are beyond the control of Auxein Corporation. All such risks shall be assumed by the user.

Auxein Corporation shall not be responsible for losses or damages resulting from use of this product in any manner not set forth on this label. User assumes all risks associated with the use of this product in any manner not specifically set forth on this label.

Auxein Corporation warrants only that the material contained herein conforms to the chemical description on the label and is reasonably fit for the use therein described when used in accordance with the directions for use, subject to the risks referred to above. AUXEIN CORPORATION DOES NOT MAKE OR AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE ANY OTHER WARRANTIES. EXPRESS OR IMPLIED AND EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

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