

ProAct®

A Biochemical Pesticide for Foliar Use that:

- Suppresses Nematode Egg Production
- Enhances Growth, Quality, and Yield
- Increases Plant Stamina and Vigor

Wettable Dry Granule

ACTIVE INGREDIENT:

Harpin $\alpha\beta$ Protein: 1.0%

OTHER INGREDIENTS: 99.0%

Total: 100.0%

EPA Reg. No. 71771-3

EPA Est. No. 71771-PA-001

KEEP OUT OF REACH OF CHILDREN

CAUTION PRECAUCION

See additional precautionary statements elsewhere on the label.

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

Net Weight:

PLANT HEALTH CARE, INC.

440 William Pitt Way • Pittsburgh, PA • 15238
1-800-421-9051 • www.planthealthcare.com

Read the entire label before using this product.

Read WARRANTY AND DISCLAIMER before buying or using. If terms are not acceptable, return at once unopened.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION

Harmful if inhaled. Avoid breathing spray mist. Remove and wash contaminated clothing before reuse.

FIRST AID

If Inhaled:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.
- Call a poison center or doctor for further treatment advice.

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact the National Pesticide Information Center at 1-800-858-7378 for emergency medical treatment information.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Shoes and socks.
- Dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95, or P-95, when mixing.

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

Engineering Controls

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.

IMPORTANT: When reduced PPE is worn because a closed system is being used, handlers must be provided PPE specified above for "applicators and handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment break-down.

USER SAFETY RECOMMENDATIONS

- Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Users should remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

For terrestrial uses: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash waters or rinsate.

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 this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during restricted entry-interval (REI) of 4 hours.

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 plant, soil, or water is:

- Coveralls;
- Waterproof gloves; and
- Shoes and socks.

PRODUCT INFORMATION

ProAct stimulates the natural growth and defense systems of crops, enhancing overall plant health. Healthier plants exhibit increased plant stamina and vigor, leading to one or more of the following benefits: suppression of nematode egg production, increased marketable yield, and enhanced quality.

ProAct is a new tool for use in Integrated Crop Management (ICM). Product efficacy is based on its ability to activate the plant's own internal defense and growth mechanisms. ProAct works best when used in conjunction with good crop management practices.

GENERAL INSTRUCTIONS

NEMATODE EGG SUPPRESSION AND PLANT GROWTH

ProAct can be used to suppress nematode egg production while improving plant and root growth. ProAct offers a different mode of action for nematode suppression. Use of a labeled preplant application of a soil fumigant, contact nematicide, or nematicidal seed treatment is typically needed for nematode suppression in most crops. Apply ProAct for supplemental suppression of nematode egg production.

GROWTH ENHANCEMENT AND MARKETABLE YIELD

Use ProAct to increase plant health and vigor and to enhance crop quality and marketable production.

SITES

Use ProAct for field production of all crops listed on this label.

COVERAGE

Use spray volume adequate to obtain coverage without runoff. Uniform or full leaf coverage is helpful but is not required.

DAYS TO HARVEST

Apply ProAct up to the day of harvest.

GENERAL USE PRECAUTIONS

USE PROMPTLY

Use ProAct on the same day it is mixed with water. Carefully reseal opened packages to minimize exposure to air and moisture. Use opened packages within 3 weeks.

TANK MIXING

Use in Mixtures: ProAct is believed to be compatible with most other labeled pesticides, such as post-emergence herbicides, insecticides, acaricides, and fungicides, as well as most foliar nutritional 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 the products to approximately one quart of water with agitation. Add dry flowables 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. Do not mix this product with any other product containing a label prohibition against such mixing. When tank-mixing ProAct with any other approved pesticide, always read and follow all use directions, restrictions, and precautions of both ProAct and the tank mix partner(s). The resulting tank mix must be in accordance with the more restrictive label limitations and precautions. Do not exceed label dosage rates.

Precautions: Do not use ProAct in tank mixes or water below pH 5 or above pH 10. Do not mix this product with pyrophosphates, phosphoric acid, or other strong oxidizers.

Surfactants: Use only non-ionic adjuvants approved for use on growing crops.

Glyphosate Herbicides: When tank mixing ProAct with glyphosate for application on crops designated Roundup Ready®, only use formulations of glyphosate herbicide that are fully labeled for use on Roundup Ready® crops. Never spray this mixture on crops that are not designated Roundup Ready® as severe injury or death of the crop can

occur. Some glyphosate formulations allow for the addition of surfactants. Please refer to the surfactant recommendations from the manufacturer.

DILUTION WATER QUANTITY

If one ounce of ProAct is diluted in more than 35 gallons of chlorinated water (e.g., municipal water), add a labeled water treatment product to remove excess chlorine. Consult your Plant Health Care representative if you need further directions on water treatment.

CROP RIPENING

Crop maturity can infrequently differ in crops treated with ProAct. User must monitor crop for maturity and harvest accordingly.

RAIN

Do not apply during rain. Reapplication is not necessary if the spray has dried before rain begins.

STRESSED PLANTS

Plants must be actively growing at the time of foliar applications. Applications made to plants that are stressed by extreme heat, cold, moisture, or nutrient deficiency can be less effective.

SPRAY DRIFT

Avoiding spray drift at the application site is the responsibility of the applicator. The interactions of many equipment and weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering these factors when making decisions.

MIXING INSTRUCTIONS

- Step 1:** Fill at least one-half of the mix tank with clean water. Provide gentle agitation.
- Step 2:** Add the required amount of ProAct. Agitate until dissolved and avoid excessive foaming.
- Step 3:** If tank mixing, add other spray materials to tank.
- Step 4:** Add remaining water to mix tank.
- Step 5:** Continue gentle agitation and apply promptly.

APPLICATION INSTRUCTIONS

Foliar Application: Apply ProAct as a field application using conventional ground or aerial equipment. Use ProAct to enhance plant growth and vigor, to increase marketable production, and as part of an IPM program to assist disease management.

Use the following tables to make decisions on application rates and timing. Follow recommendations for your crop.

Table 1. NEMATODE SUPPRESSION USE INSTRUCTIONS	
Crop	Use Instructions
	Apply ProAct for supplemental suppression of nematodes. Use ProAct in conjunction with other nematode management practices. Use rates are specified beside each crop or crop grouping in Table 2.
DIRECT-SEEDED CROPS	Apply ProAct following use of a preplant application of a soil fumigant, contact nematicide, or nematicidal seed treatment such as N-Hibit® seed treatment, if available. Make first foliar application of ProAct at 2 - 3 weeks after plant emergence. Re-apply as recommended in Table 2.
PERENNIAL CROPS	Apply ProAct following use of a soil fumigant, contact nematicide, or nematicidal seed treatment such as N-Hibit® seed treatment, if available. Make first application of ProAct after plants break dormancy and begin root growth. Re-apply as recommended in Table 2.

Table 2. GROWTH ENHANCEMENT AND MARKETABLE YIELD USE INSTRUCTIONS

Crop	Rate (Oz/Acre)	Dilution (Gal/Acre)	Timing
LEGUMES	1 - 2	5 to 100* by ground Minimum 3 by air	Apply after complete emergence. Repeat at 21 to 28-day intervals as needed.
COTTON			Apply between 2 leaf stage and mid-bloom.
FORAGE CROPS	0.5 - 2		Apply after new growth commences and at each cutting. For newly seeded crops begin at first true leaf.
CORN (Grain, silage, seed or popcorn)			0.5 - 1
OIL AND SEED CROPS ROOT CROPS	1 - 2		
RICE SMALL GRAINS SORGHUM	0.5 - 1		
SUGARCANE	1 - 2		Apply after new growth commences. Repeat at 28 to 35-day intervals as needed.
TURF GRASSES All types on sod production farms	1 - 2	10 to 200* by ground. Minimum 3 by air	Begin applications when plants are established or 14 days after full emergence. Repeat at 28 to 35-day intervals as needed.

* See Dilution Water Quantity Use Advisory.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE

Keep product away from exposure to air, sunlight, moisture, or heat. Do not store in temperatures over 110°F for more than seven days. Use product within 3 weeks of opening and the same day as mixing.

PESTICIDE DISPOSAL

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

CONTAINER DISPOSAL

Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment, then offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

WARRANTY AND DISCLAIMER

CONDITIONS OF SALE AND EXCLUSIVE WARRANTY

The Directions for Use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness of the product, or other unintended consequences may result because of such factors as horticultural practices, use with other products (unless otherwise expressly provided in the Directions for Use of this product), presence of other materials, the manner of use or application, and various environmental conditions, including but not limited to weather conditions and moisture conditions. To the extent consistent with applicable law, all of the aforementioned risks are beyond the control of Plant Health Care, Inc. and the Buyer shall assume all such risks.

EXCLUSIVE WARRANTIES

Plant Health Care, Inc. warrants that at the time of first sale of this product it conforms to the chemical description on the label and under normal conditions is reasonable fit for the purposes referred to in the Directions for Use, subject to inherent risks referred to above. To the extent consistent with applicable law, if this product does not perform as warranted above, customer's sole remedy for breach of that warranty shall be replacement of the product or refund of the purchase price paid, at the option of Plant Health Care, Inc. TO THE EXTENT ALLOWED BY LAW, THE FOREGOING WARRANTIES AND REMEDIES ARE EXCLUSIVE AND ARE IN LIEU OF ALL OTHER WARRANTIES, TERMS, OR CONDITIONS EXPRESSED OR IMPLIED, EITHER IN FACT OR BY OPERATION OF LAW, STATUTORY OR OTHERWISE, INCLUDING BUT NOT LIMITED TO WARRANTIES, TERMS, OR CONDITIONS OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE, AND SATISFACTORY QUALITY.

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ASSUMPTION OF RISK

To the extent consistent with applicable law, Buyer and Users of this product assume the risk of any use contrary to the Directions for Use and/or all of the risks inherent in the use of this product as set forth above. Plant Health Care, Inc. offers this product, and the Buyer and User accept it, subject to the foregoing Conditions of Sale and Exclusive Warranty, which may be varied only by agreement in writing signed by a duly authorized representative of Plant Health Care, Inc.

PROMPT NOTICE OF CLAIM

Plant Health Care, Inc. must have prompt notice as soon as Buyer or User has reason to believe they may have a claim (not to exceed twenty-one days from the date of application) so that an inspection of the affected property and growing crops may be made. To the extent consistent with applicable law, unless Buyer and Users shall promptly notify Plant Health Care, Inc. of any claims, they shall be barred from obtaining any remedy.

TANK MIXES

To the extent consistent with applicable law, tank mixing or use of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of User, Applicator, and/or Application Advisor. Read and follow the entire label of each product to be used in a tank mix with this product.

LIMITED USE LICENSE AND PATENTS

The contents of this package and/or the use of the contents are covered by U.S. Patent Nos. 5,849,868, 5,859,324, 5,776,889, 5,977,060, and 6,277,814 as well as pending patent applications. The purchase of this package grants the Buyer a license, under these patents and patent applications, to use its contents only for treating plants, plant seeds, and other plant parts as described herein.

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