



U.S. ENVIRONMENTAL PROTECTION AGENCY
 Office of Pesticide Programs
 Biopesticides and Pollution Prevention Division (7511P)
 1200 Pennsylvania Ave., N.W.
 Washington, D.C. 20460

EPA Reg. Number:

74267-10

Date of Issuance:

3/20/2023

NOTICE OF PESTICIDE:

Registration
 Reregistration
 (under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

PRO-MIX O AGTIV DEFEND

Name and Address of Registrant (include ZIP Code):

Premier Tech Growers And Consumers Inc.
 200 Kelly Road, Unit E-1
 Quakertown, PA 18951

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Biopesticides and Pollution Prevention 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 under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA or the Act).

Registration is in no way to be construed as an endorsement or recommendation of this product by the U.S. Environmental Protection Agency (EPA). In order to protect health and the environment, the Administrator, on his or her 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 the 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 section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration or registration review of your product when EPA requires all registrants of similar products to submit such data.

Signature of Approving Official:

Alexandra Boukedes
 Digitally signed by
 Alexandra Boukedes
 Date: 2023.03.20 17:25:42
 -04'00'

Alexandra Boukedes, Product Manager 92
 Microbial Pesticides Branch
 Biopesticides and Pollution Prevention Division (7511M)
 Office of Pesticide Programs

Date:

3/20/2023

2. Make the following labeling change before you release this product for shipment:
 - Revise the EPA Registration Number to read, “EPA Reg. No. 74267-10.”
3. Submit one (1) copy of the final printed labeling for the record before you release this product for shipment.

Should you wish to add/retain a reference to your company’s website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by EPA. If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should EPA find or if it is brought to our attention that a website contains statements or claims substantially differing from statements or claims made in connection with obtaining a FIFRA section 3 registration, the website will be referred to EPA’s Office of Enforcement and Compliance Assurance.

Your release for shipment of this product constitutes acceptance of these terms. If these terms are not complied with, this registration will be subject to cancellation in accordance with FIFRA section 6. A stamped copy of the labeling is enclosed for your records. Please also note that the record for this product currently contains the following acceptable Confidential Statements of Formula (CSFs):

- Basic CSF dated 03/17/2023
- Alternate CSF #1 dated 03/17/2023
- Alternate CSF #2 dated 03/17/2023
- Alternate CSF #3 dated 03/17/2023
- Alternate CSF #4 dated 03/17/2023
- Alternate CSF #5 dated 03/17/2023
- Alternate CSF #6 dated 03/17/2023
- Alternate CSF #7 dated 03/17/2023
- Alternate CSF #8 dated 03/17/2023
- Alternate CSF #9 dated 03/17/2023
- Alternate CSF #10 dated 03/17/2023
- Alternate CSF #11 dated 03/17/2023
- Alternate CSF #12 dated 03/17/2023
- Alternate CSF #13 dated 03/17/2023
- Alternate CSF #14 dated 03/17/2023
- Alternate CSF #15 dated 03/17/2023
- Alternate CSF #16 dated 03/17/2023
- Alternate CSF #17 dated 03/17/2023
- Alternate CSF #18 dated 03/17/2023
- Alternate CSF #19 dated 03/17/2023
- Alternate CSF #20 dated 03/17/2023
- Alternate CSF #21 dated 03/17/2023
- Alternate CSF #22 dated 03/17/2023
- Alternate CSF #23 dated 03/17/2023
- Alternate CSF #24 dated 03/17/2023
- Alternate CSF #25 dated 03/17/2023

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Action Case No. 00357764

If you have any questions, please contact Susanne Cerrelli by phone at (202) 566-1516 or via email at cerrelli.susanne@epa.gov.

Sincerely,



Digitally signed by
Alexandra Boukedes
Date: 2023.03.20
17:26:17 -04'00'

Alexandra Boukedes, Product Manager 92
Microbial Pesticides Branch
Biopesticides and Pollution
Prevention Division (7511M)
Office of Pesticide Programs

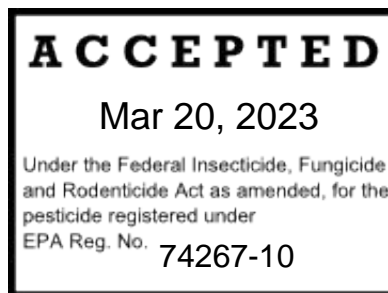
Enclosure

PRO-MIX® O AGTIV® DEFEND™

Alternate Brand Names (ABNs): PRO-MIX® GENERIC PACK O AGTIV® DEFEND™, PRO-MIX® GROWING MEDIUM O AGTIV® DEFEND™, PRO-MIX® GPO AGTIV® DEFEND™, PRO-MIX® FLO AGTIV® DEFEND™, PRO-MIX® FPO AGTIV® DEFEND™, PRO-MIX® FPO^F AGTIV® DEFEND™, PRO-MIX® NFO AGTIV® DEFEND™, PRO-MIX® NFO^F AGTIV® DEFEND™, PRO-MIX® NAO AGTIV® DEFEND™, PRO-MIX® NAO^F AGTIV® DEFEND™, PRO-MIX® MGO AGTIV® DEFEND™, PRO-MIX® MGO^F AGTIV® DEFEND™, PRO-MIX® PGO AGTIV® DEFEND™, PRO-MIX® PGO^F AGTIV® DEFEND™, PRO-MIX® VO10 AGTIV® DEFEND™, PRO-MIX® VO10^F AGTIV® DEFEND™, PRO-MIX® VO30 AGTIV® DEFEND™, PRO-MIX® VO30^F AGTIV® DEFEND™, PRO-MIX® NFBO AGTIV® DEFEND™, PRO-MIX® NFBO^F AGTIV® DEFEND™, PRO-MIX® FVCO AGTIV® DEFEND™, PRO-MIX® FVCO^F AGTIV® DEFEND™, PRO-MIX® BSO AGTIV® DEFEND™, PRO-MIX® BSO^F AGTIV® DEFEND™, PRO-MIX® MSBO AGTIV® DEFEND™, PRO-MIX® MSBO^F AGTIV® DEFEND™, PRO-MIX® MSPO AGTIV® DEFEND™, PRO-MIX® MSPO^F AGTIV® DEFEND™, PRO-MIX® O BIO-FUNGICIDE™, PRO-MIX® O^F BIO-FUNGICIDE™, PRO-MIX® GENERIC PACK O BIO-FUNGICIDE™, PRO-MIX® GPO BIO-FUNGICIDE™, PRO-MIX® FLO BIO-FUNGICIDE™, PRO-MIX® FPO BIO-FUNGICIDE™, PRO-MIX® FPO^F BIO-FUNGICIDE™, PRO-MIX® NFO BIO-FUNGICIDE™, PRO-MIX® NFO^F BIO-FUNGICIDE™, PRO-MIX® FPBO BIO-FUNGICIDE™, PRO-MIX® FPBO^F BIO-FUNGICIDE™, PRO-MIX® MGO BIO-FUNGICIDE™, PRO-MIX® MGO^F BIO-FUNGICIDE™, PRO-MIX® PGO BIO-FUNGICIDE™, PRO-MIX® PGO^F BIO-FUNGICIDE™, PRO-MIX® VO10 BIO-FUNGICIDE™, PRO-MIX® VO10^F BIO-FUNGICIDE™, PRO-MIX® VO30 BIO-FUNGICIDE™, PRO-MIX® VO30^F BIO-FUNGICIDE™, PRO-MIX® NFBO BIO-FUNGICIDE™, PRO-MIX® NFBO^F BIO-FUNGICIDE™, PRO-MIX® FVCO BIO-FUNGICIDE™, PRO-MIX® FVCO^F BIO-FUNGICIDE™, PRO-MIX® MSBO BIO-FUNGICIDE™, PRO-MIX® MSBO^F BIO-FUNGICIDE™, PRO-MIX® MSPO BIO-FUNGICIDE™, PRO-MIX® MSPO^F BIO-FUNGICIDE™, PRO-MIX® O BIOFUNGICIDE™, PRO-MIX® GENERIC PACK O BIOFUNGICIDE™, PRO-MIX® GROWING MEDIUM O BIOFUNGICIDE™, PRO-MIX® GPO BIOFUNGICIDE™, PRO-MIX® FLO BIOFUNGICIDE™, PRO-MIX® FPO BIOFUNGICIDE™, PRO-MIX® NFO BIOFUNGICIDE™, PRO-MIX® NFO^F BIOFUNGICIDE™, PRO-MIX® FPBO BIOFUNGICIDE™, PRO-MIX® FPBO^F BIOFUNGICIDE™, PRO-MIX® MGO BIOFUNGICIDE™, PRO-MIX® MGO^F BIOFUNGICIDE™, PRO-MIX® NAO BIOFUNGICIDE™, PRO-MIX® NAO^F BIOFUNGICIDE™, PRO-MIX® PGO BIOFUNGICIDE™, PRO-MIX® PGO^F BIOFUNGICIDE™, PRO-MIX® VO10 BIOFUNGICIDE™, PRO-MIX® VO10^F BIOFUNGICIDE™, PRO-MIX® VO30 BIOFUNGICIDE™, PRO-MIX® VO30^F BIOFUNGICIDE™, PRO-MIX® NFBO BIOFUNGICIDE™, PRO-MIX® NFBO^F BIOFUNGICIDE™, PRO-MIX® FVCO BIOFUNGICIDE™, PRO-MIX® FVCO^F BIOFUNGICIDE™, PRO-MIX® BSO BIOFUNGICIDE™, PRO-MIX® BSO^F BIOFUNGICIDE™, PRO-MIX® MSBO BIOFUNGICIDE™, PRO-MIX® MSBO^F BIOFUNGICIDE™, PRO-MIX® MSPO BIOFUNGICIDE™, PRO-MIX® MSPO^F BIOFUNGICIDE™

OPTIONAL TEXT (choose one or many sentences:)

- (ALSO SUPPRESSES FUNGUS GNATS AND THRIPS)
- (BIOFUNGICIDE)
- (BIOFUNGICIDE™)
- (WITH BIOFUNGICIDE)
- (WITH BIOFUNGICIDE™)
- (GROWING MEDIUM)
- (FINE PLUG GROWING MEDIUM)
- (FINE PLUG GROWING MEDIUM WITH BINDER)
- (PLUG AND GERMINATION GROWING MEDIUM)
- (BLOCKING SUBSTRATE GROWING MEDIUM)
- (COIR-BASED GROWING MEDIUM)
- (FRUIT AND VEGETABLE GROWING MEDIUM)
- (NO AGGREGATE PEAT GROWING MEDIUM)
- (NO AGGREGATE FINE PEAT GROWING MEDIUM)
- (NO AGGREGATE FINE PEAT GROWING MEDIUM WITH BINDER)
- (MICRO-GREEN GROWING MEDIUM)
- (SPHAGNUM PEAT-BASED GROWING MEDIUM)
- (SPHAGNUM PEAT and WOOD FIBER-BASED GROWING MEDIUM)
- (SPHAGNUM PEAT and BOREAL WOOD FIBER-BASED GROWING MEDIUM)
- (SPHAGNUM PEAT/COIR-BASED GROWING MEDIUM)
- (SPHAGNUM PEAT/COIR and WOOD FIBER-BASED GROWING MEDIUM)
- (SPHAGNUM PEAT/COIR and BOREAL WOOD FIBER-BASED GROWING MEDIUM)
- (FINE PLUG AND GERMINATION PEAT-BASED GROWING MEDIUM)
- (FINE PLUG AND GERMINATION PEAT/WOOD FIBER-BASED GROWING MEDIUM)
- (FINE PLUG AND GERMINATION PEATAND BOREAL WOOD FIBER-BASED GROWING MEDIUM)



**SPHAGNUM PEAT-BASED GROWING MEDIUM
 WITH BIOFUNGICIDE™ FOR PROTECTED GROWING ENVIRONMENT USE (E.G. GREENHOUSES OR
 (OPTIONAL TEXT: CONTAINED NURSERIES), CONTAINED GROWING SYSTEM)**

KEEP OUT OF REACH OF CHILDREN
CAUTION
See First Aid and Additional Precautionary Statements on Back Panel

ACTIVE INGREDIENT:

Bacillus pumilus strain PTB180^{†*} 0.00004%

OTHER INGREDIENTS: 99.99996%
 Total..... 100.00000%

[†] Antecedent *Bacillus pumilus* strain GHA180

* Contains not less than 5 X 10⁴ viable spores per gram of medium

EPA Reg. No. (74267-RN)

OPTIONAL TEXT

EPA Establishment No. 74267-CAN-001/ 002/
 003/ 004

or

EPA Establishment No. 74267-VA-1

OPTIONAL TEXT FOR MANUFACTURING SITES LOCATED IN CANADA

For identification of establishment number, refer to the manufacturing identification, (optional text: *which is ink-jet printed within side bar or which is printed on sticker*). This indicates year.month.day, manufacture location (1, 2, 3, 4, or 6) (optional text: *,military time and product identification. For example: 2022.01.15 2 02:45 BX or and military time. For example: 2022.01.15 2 02:45 or ,military time, product identification and product code. For example: 2022.01.15 2 02:45 BX XXXXX or For example: 2022.01.15 2*). Manufacturing locations are coded as:

- 1: for Rivière-du-Loup, Quebec – PRM plant products (EPA Establishment No. 74267-CAN-001)
- 2: for Rivière-du-Loup, Quebec – USC plant products (EPA Establishment No. 74267-CAN-001)
- 3: for Richer, Manitoba (EPA Establishment No. 74267-CAN-002)
- 4: for Northal, Alberta (EPA Establishment No. 74267-CAN-003)
- 6: for Rexton, New Brunswick (EPA Establishment No. 74267-CAN-004)

OPTIONAL TEXT FOR MANUFACTURING SITE LOCATED IN USA

For identification of establishment number, refer to the manufacturing identification, (optional text: *which is ink-jet printed within side bar or which is printed on sticker*). This indicates year.month.day, manufacture location (optional text: *,military time and product identification. For example: 2022.01.15 95 02:45 BX or and military time. For example: 2022.01.15 95 02:45 or ,military time, product identification and product code. For example: 2022.01.15 95 02:45 BX XXXXX or For example: 2022.01.15 95*). Manufacturing locations are coded as:

- 95: for Mattaponi, Virginia (EPA Establishment No. 74267-VA-1)

Net weight	Volume
1.3 lb (0.6 kg)	1 gal (4 L)
2.4 lb (1.1 kg)	2 gal (8 L)
3.6 lb (1.6 kg)	3 gal (11 L)
4.8 lb (2.2 kg)	4 gal (15 L)
6.0 lb (2.7 kg)	5 gal (19 L)
8.4 lb (3.8 kg)	7 gal (26 L)
11.9 lb (5.4 kg)	10 gal (38 L)
25 lb (11.3 kg)	2.8 cu ft loose (79 L)
60 lb (27.2 kg)	3.8 cu ft compressed (107 L)
870 lb (395 kg)	55 cu ft compressed (1,557 L)
535 lb (243 kg)	60 cu ft loose (1,700 L)
625 lb (283 kg)	70 cu ft loose (1,982 L)
710 lb (322 kg)	80 cu ft loose (2,265 L)
2,200 lb (998 kg)	135 cu ft compressed (3,825 L)

OPTIONAL TEXT

PRODUCT OF CANADA

Manufactured For and Guaranteed by:
PREMIER TECH GROWERS AND CONSUMERS INC.
200 Kelly Road, Unit E-1
Quakertown, PA
18951 USA

Manufactured By:
PREMIER HORTICULTURE LTD.
1 avenue Premier
Rivière-du-Loup, Québec
G5R 6C1 Canada

Or

OPTIONAL TEXT: Made in USA of U.S. and imported ingredients

Manufactured and Guaranteed by:
PREMIER TECH GROWERS AND
CONSUMERS INC.
200 Kelly Road, Unit E-1
Quakertown, PA
18951 USA

HEADQUARTERS
PREMIER HORTICULTURE LTD.
1 avenue Premier
Rivière-du-Loup, Québec
G5R 6C1 Canada

Batch Code:

Back panel:

FIRST AID

If in Eyes

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Contact a poison control center or doctor for 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.

For non-emergency information concerning this product, call the National Pesticide Information Center (NPIC) at 1-800-858-7378, Monday through Friday, 8:00 AM to 12:00 PM Pacific Standard Time (NPIC Web site: www.npic.orst.edu). For emergencies, call your local poison control center at 1-800-222-1222.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals. CAUTION: Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

Personal Protective Equipment (PPE): Applicators (e.g., persons opening bags and/or filling potting machines) and other handlers must wear protective eyewear, a long-sleeved shirt, long pants, shoes, socks, and a minimum of a NIOSH-approved particulate filtering facepiece respirator with any N, R, or P filter; OR a NIOSH-approved elastomeric particulate respirator with any N, R, or P filter; OR a NIOSH-approved powered air- purifying respirator with an HE filter. (Repeated exposures to high concentrations of microbial proteins can cause allergic sensitization.).

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

USER SAFETY RECOMMENDATION

Users should:

- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- 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, to areas where surface water is present or to intertidal areas below the mean high-water mark. Do not contaminate water when disposing of equipment wash water 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 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 interval (REI). The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Given the pesticide active ingredient is already incorporated into a sphagnum peat-based growing medium, no restricted-entry interval (0 hours) is needed for this product.

PRODUCT INFORMATION

PRO-MIX® O AGTIV® DEFEND™ has been enriched with *Bacillus pumilus* bacteria (optional text: know as BIOFUNGICIDE,) that colonize developing root systems and suppress disease-causing organisms, such as *Pythium*, *Fusarium*, *Rhizoctonia* (optional text: and certain labeled insect pests, such as fungus gnats that attack root systems and thrips that pupate into the growing medium). As the root system develops, the bacteria grow within the rhizosphere and extend the protection throughout the growing season.

(OPTIONAL TEXT (SELECT ONE OR MORE FORMULATION))

PRO-MIX® O AGTIV® DEFEND™ (ABN: PRO-MIX® FPO AGTIV® DEFEND™, PRO-MIX® FPO^F AGTIV® DEFEND™) is a (optional text: fine grade, peat/coir-based growing medium with fine perlite or fine grade, peat/coir/wood fiber-based growing medium with fine perlite or growing medium) that is ideal for the germination of herbs and vegetables. Its physical properties provide favorable conditions for germination of seed and development of herb and vegetable seedlings used as transplants for container or field production.

PRO-MIX® O AGTIV® DEFEND™ (ABN: PRO-MIX® NFO AGTIV® DEFEND™, PRO-MIX® NFO^F AGTIV® DEFEND™) is a (optional text: fine peat based growing medium or fine peat/wood fiber based growing medium or growing medium) formulated for germinating ornamental and vegetable seeds in small cell plug trays. It contains short-fibered sphagnum peat moss (optional text: and wood fiber) good for easy filling of trays with minimal bridging and for growing applications that do not require any mineral aggregate.

PRO-MIX® O AGTIV® DEFEND™ (ABN: PRO-MIX® FPBO AGTIV® DEFEND™, PRO-MIX® FPBO^F AGTIV® DEFEND™) is a (optional text: fine peat/coir-based growing medium with fine perlite or peat/wood fiber/coir-based growing medium with fine perlite or growing medium) formulated for germinating ornamental and vegetable seeds in small cell plug trays. It contains a base blend of short-fibered sphagnum peat moss and fine perlite for easy filling of trays with minimal bridging. This formulation contains a mineral binder that favors the development of the transplant root ball plug at transplanting time.

PRO-MIX® O AGTIV® DEFEND™ (ABN:PRO-MIX® MGO AGTIV® DEFEND™, PRO-MIX® MGO^F AGTIV® DEFEND™) is a (optional text: fine grade, peat/coir-based growing medium or fine grade, peat/wood

fiber/coir-based growing medium or growing medium) that is ideal for the germination of herbs and vegetables in greenhouse trough and gutter systems. Its physical properties optimize the germination of seed and development of herb and vegetable seedlings. It is ideal for the applications that do not require any mineral aggregate.

PRO-MIX® O AGTIV® DEFEND™ (ABN: PRO-MIX® NAO AGTIV® DEFEND™, PRO-MIX® NAO^F AGTIV® DEFEND™) is a (optional text: peat-based growing medium or peat/wood fiber based growing medium or growing medium) formulated for the cultivation of horticultural greenhouse plants. It is uniform and blended to the highest degree of consistency to provide conditions necessary to establish plant growth. This formulation is suitable for a wide variety of plant species and for growing application that do not require any mineral aggregate.

PRO-MIX® O AGTIV® DEFEND™ (ABN: PRO-MIX® PGO AGTIV® DEFEND™, PRO-MIX® PGO^F AGTIV® DEFEND™) is a (optional text: fine grade peat-based growing medium with fine perlite or fine grade peat/wood fiber-based growing medium with fine perlite or growing medium) formulated for germinating ornamental and vegetable seeds. This fine-textured blend that is well suited for traditional seeding and plug-system applications.

PRO-MIX® O AGTIV® DEFEND™ (ABN: PRO-MIX® VO10 AGTIV® DEFEND™, PRO-MIX® VO10^F AGTIV® DEFEND™) is a mediumweight, (optional text: peat/bark-based growing medium with perlite or peat/wood fiber/bark-based growing medium with perlite or growing medium) formulated for the cultivation of horticultural plants. Processed bark adds weight and reduces water retention of the medium, while sphagnum peat moss is lightweight and possesses high water-holding ability. This combination forms a base for a “general use” growing medium that provides the conditions necessary to establish vegetables, fruits and for other edible crops, particularly when container stability and low water retention are required.

PRO-MIX® O AGTIV® DEFEND™ (ABN: PRO-MIX® VO30 AGTIV® DEFEND™, PRO-MIX® VO30^F AGTIV® DEFEND™) is a mediumweight, (optional text: peat/bark-based growing medium or peat/bark/wood fiber-based growing medium or growing medium) formulated for the cultivation of horticultural plants. Processed bark adds weight and reduces water retention of the medium, while sphagnum peat moss is lightweight and possesses high water-holding ability. This combination forms a base for a “general use” growing medium that provides the conditions necessary to establish vegetables, fruits and for other edible crops, particularly when container stability and low water retention are required.

PRO-MIX® O AGTIV® DEFEND™ (ABN: PRO-MIX® NFBO AGTIV® DEFEND™, PRO-MIX® NFBO^F AGTIV® DEFEND™) is a (optional text: fine peat-based growing medium or fine peat wood fiber-based growing medium or growing medium) formulated for germinating ornamental and vegetable seeds in small cell plug trays. It contains short-fibered sphagnum peat moss (optional text: and wood fiber) good for easy filling of trays with minimal bridging and for growing application that do not require any mineral aggregate.

PRO-MIX® O AGTIV® DEFEND™ (ABN: PRO-MIX® FVCO AGTIV® DEFEND™, PRO-MIX® FVCO^F AGTIV® DEFEND™) is a coarse-textured, high porosity (optional text: peat-based growing medium with perlite or peat/wood fiber-based growing medium with perlite or growing medium) that is blended with (optional text: chunk) coir. This combination of ingredients is ideal for potted crops and large containers when coarse texture and high drainage are required. This formulation is lightweight, uniform and suitable for a wide variety of edible plants that have a long crop cycle.

PRO-MIX® O AGTIV® DEFEND™ (ABN: PRO-MIX® BSO AGTIV® DEFEND™, PRO-MIX® BSO^F AGTIV® DEFEND™) is a (optional text: peat-based growing medium or peat/wood fiber-based growing medium or growing medium) formulated for the press pot applications. This blocking substrate can be used for the cultivation of horticultural transplants and seedlings. This formulation is designed to meet crop requirements for growers of herbs, vegetables, fruits and for other edible crops.

PRO-MIX® O AGTIV® DEFEND™ (ABN: PRO-MIX® MSBO AGTIV® DEFEND™, PRO-MIX® MSBO^F AGTIV® DEFEND™) is a (optional text: moist black peat growing medium or moist black peat/wood fiber growing medium or moist black peat) formulated for blending with mushroom casing. It contains a base of short-fibered decomposed sphagnum peat moss easy to incorporate with other mushroom casing ingredients. This formulation contains a clay base mineral that increases the water holding capacity of the mushroom casing blend.

PRO-MIX® O AGTIV® DEFEND™ (ABN: PRO-MIX® MSPO AGTIV® DEFEND™, PRO-MIX® MSPO^F AGTIV® DEFEND™) is (optional text: a growing medium or made of select long-fibered blond sphagnum peat or made of blend select long-fibered blond sphagnum peat and our wood fiber) formulated for blending mushroom casing and for general commercial use. It provides a high degree of water retention and air porosity for a wide range of applications.

OPTIONAL TEXT: To determine the best PRO-MIX® O AGTIV® DEFEND blend for your growing needs, consult the following base-formula table. For technical assistance, plant compatibility information and crop culture guidelines, contact PREMIER GROWER SERVICES – USA: 1-800-424-2554 – Canada: 1-800-667-5366.

OPTIONAL TEXT: For information regarding the bag contents, please refer to the blend information printed directly on the side of the bag directly below the manufacturing date. The blend indicates the ingredient contained in the package as described below.

OPTIONAL TABLE (SELECT ONE OR MORE FORMULATION))

LIST OF INGREDIENTS	
<i>Optional text:</i> FPO	• Sphagnum peat moss (60-70% by volume) • Coir • Perlite • (optional text: Ground limestone (pH adjustment) or Dolomite (pH adjustment)) • Wetting Agent • Biofungicide (<i>Bacillus pumilus</i> strain PTB180)
<i>Optional text:</i> FPO ^F	• Sphagnum peat moss (40-60% by volume) • Wood Fiber • Coir • Perlite • (Optional text: Ground limestone (pH adjustment) or Dolomite (pH adjustment)) • Wetting Agent • Biofungicide (<i>Bacillus pumilus</i> strain PTB180)
<i>Optional text:</i> NFO	• Sphagnum peat moss (95-100 % by volume) • (Optional text: Ground limestone (pH adjustment) or Dolomite (pH adjustment)) • Wetting Agent • Biofungicide (<i>Bacillus pumilus</i> strain PTB180)
<i>Optional text:</i> NFO ^F	• Sphagnum peat moss (60-80% by volume) • Wood Fiber • (Optional text: Ground limestone (pH adjustment) or Dolomite (pH adjustment)) • Wetting Agent • Biofungicide (<i>Bacillus pumilus</i> strain PTB180)
<i>Optional text:</i> FPBO	• Sphagnum peat moss (60-70% by volume) • Coir • Perlite • (optional text: Bentonite or Kaolinite clay) • (Optional text: Ground limestone (pH adjustment) or Dolomite (pH adjustment)) • Wetting Agent • Biofungicide (<i>Bacillus pumilus</i> strain PTB180)
<i>Optional text:</i> FPBO ^F	• Sphagnum peat moss (40-60% by volume) • Wood Fiber • Coir • Perlite • (optional text: Bentonite or Kaolinite clay) • (Optional text: Ground limestone (pH adjustment) or Dolomite (pH adjustment)) • Wetting Agent • Biofungicide (<i>Bacillus pumilus</i> strain PTB180)
<i>Optional text:</i> MGO	• Sphagnum peat moss (75-85% by volume) • Coir • (Optional text: Ground limestone (pH adjustment) or Dolomite (pH adjustment)) • Wetting Agent • Biofungicide (<i>Bacillus pumilus</i> strain PTB180)
<i>Optional text:</i> MGO ^F	• Sphagnum peat moss (45-65% by volume) • Wood Fiber • Coir • (Optional text: Ground limestone (pH adjustment) or Dolomite (pH adjustment)) • Wetting Agent • Biofungicide (<i>Bacillus pumilus</i> strain PTB180)
<i>Optional text:</i> NAO	• Sphagnum peat moss (95-100 % by volume) • (Optional text: Ground limestone (pH adjustment) or Dolomite (pH adjustment)) • Wetting Agent • Biofungicide (<i>Bacillus pumilus</i> strain PTB180)
<i>Optional text:</i> NAO ^F	• Sphagnum peat moss (60-80% by volume) • Wood fiber • (Optional text: Ground limestone (pH adjustment) or Dolomite (pH adjustment)) • Wetting Agent • Biofungicide (<i>Bacillus pumilus</i> strain PTB180)

Optional text: PGO	• Sphagnum peat moss (65-75% by volume) • Coir • Perlite • (Optional text: Ground limestone (pH adjustment) or Dolomite (pH adjustment)) • Wetting Agent • Biofungicide (<i>Bacillus pumilus</i> strain PTB180)
Optional text: PGO ^F	• Sphagnum peat moss (40-60% by volume) • Wood fiber • Coir • Perlite • (Optional text: Ground limestone (pH adjustment) or Dolomite (pH adjustment)) • Wetting Agent • Biofungicide (<i>Bacillus pumilus</i> strain PTB180)
Optional text: VO10	• Sphagnum peat moss (75-85% by volume) • Processed bark • Perlite • (Optional text: Ground limestone (pH adjustment) or Dolomite (pH adjustment)) • Wetting Agent • Biofungicide (<i>Bacillus pumilus</i> strain PTB180)
Optional text: VO10 ^F	• Sphagnum peat moss (45-65% by volume) • Wood fiber • Processed bark • Perlite • (Optional text: Ground limestone (pH adjustment) or Dolomite (pH adjustment)) • Wetting Agent • Biofungicide (<i>Bacillus pumilus</i> strain PTB180)
Optional text: VO30	• Sphagnum peat moss (55-65% by volume) • Processed bark • Perlite • (Optional text: Ground limestone (pH adjustment) or Dolomite (pH adjustment)) • Wetting Agent • Biofungicide (<i>Bacillus pumilus</i> strain PTB180)
Optional text: VO30 ^F	• Sphagnum peat moss (30-50% by volume) • Processed bark • Wood fiber • Perlite • (Optional text: Ground limestone (pH adjustment) or Dolomite (pH adjustment)) • Wetting Agent • Biofungicide (<i>Bacillus pumilus</i> strain PTB180)
Optional text: NFBO	• Sphagnum peat moss (95-100 % by volume) • (Optional text: Kaolinite clay or Bentonite) • (Optional text: Ground limestone (pH adjustment) or Dolomite (pH adjustment)) • Wetting Agent • Biofungicide (<i>Bacillus pumilus</i> strain PTB180)
Optional text: NFBO ^F	• Sphagnum peat moss (60-80% by volume) • Wood fiber • (Optional text: Kaolinite clay or Bentonite) • (Optional text: Ground limestone (pH adjustment) or Dolomite (pH adjustment)) • Wetting Agent • Biofungicide (<i>Bacillus pumilus</i> strain PTB180)
Optional text: FVCO	• Sphagnum peat moss (60-70% by volume) • Coir • Perlite • (Optional text: Ground limestone (pH adjustment) or Dolomite (pH adjustment)) • Wetting Agent • Biofungicide (<i>Bacillus pumilus</i> strain PTB180)
Optional text: FVCO ^F	• Sphagnum peat moss (35-55% by volume) • Coir • Wood fiber • Perlite • (Optional text: Ground limestone (pH adjustment) or Dolomite (pH adjustment)) • Wetting Agent • Biofungicide (<i>Bacillus pumilus</i> strain PTB180)
Optional text: BSO	• Sphagnum peat moss (95-100 % by volume) • (Optional text: Kaolinite clay or Bentonite) • (Optional text: Ground limestone (pH adjustment) or Dolomite (pH adjustment)) • Wetting Agent • Biofungicide (<i>Bacillus pumilus</i> strain PTB180)
Optional text: BSO ^F	• Sphagnum peat moss (60-80 % by volume) • Wood fiber • (Optional text: Kaolinite clay or Bentonite) • (Optional text: Ground limestone (pH adjustment) or Dolomite (pH adjustment)) • Wetting Agent • Biofungicide (<i>Bacillus pumilus</i> strain PTB180)
Optional text: MSBO	• Sphagnum peat moss (95-100% by volume) • (optional text: Bentonite or Kaolinite clay) • Biofungicide (<i>Bacillus pumilus</i> strain PTB180)
Optional text: MSBO ^F	• Sphagnum peat moss (60-80% by volume) • Wood fiber • (optional text: Bentonite or Kaolinite clay) • Biofungicide (<i>Bacillus pumilus</i> strain PTB180)
Optional text: MSPO	• Sphagnum peat moss (95-100% by volume) • Biofungicide (<i>Bacillus pumilus</i> strain PTB180)
Optional text: MSPO ^F	• Sphagnum peat moss (60-80% by volume) • Wood fiber • Biofungicide (<i>Bacillus pumilus</i> strain PTB180)

PREPARATION

OPTIONAL TEXT (SELECT IN FUNCTION OF THE SIZE)

Open package at the time of seeding, potting or transplanting. Pre-moisten medium with water until slightly moist to the touch after emptying package. Transplant cuttings, plugs, seedlings, etc. in moistened medium taking care to avoid compaction (do not press down around seed or root systems). After transplanting, add water to settle medium. Place newly transplanted trays and pots in a suitable growing area within the protected growing environment. Potting benches and equipment should be located in a clean, weed-free area.

OR

Gently roll the grow bag to loosen any settled growing medium and place the bag upright in a suitable environment within a clean, weed-free protected growing area. Open package at the time of seeding or transplanting. Add water until slightly moisten to the touch. Seed or transplant seedlings directly in moistened medium taking care to avoid compaction (do not press down around seed or the root system). After seeding or transplanting, add water to settle the medium.

OR

Gently roll the grow bag to loosen any settled growing medium and place the growing bag in a suitable environment within a clean, weed-free protected growing area. Open planting holes in the plastic at the time of seeding or transplanting. Add water until slightly moisten to the touch. Seed or transplant seedling directly in moistened medium taking care to avoid compaction (do not press down around seed or the root system). After seedling or transplanting, add water to settle the medium.

OPTIONAL TEXT

IMPORTANT: PRO-MIX® O AGTIV® DEFEND™ is suitable for ornamentals, herbs, vegetables, fruits, and tobacco. PRO-MIX® O AGTIV® DEFEND™ is for use in protected growing environments only (e.g. glasshouse or greenhouse) and not for use in non-protected environments (e.g. non-contained nurseries or slat houses).

OR

IMPORTANT: PRO-MIX® O AGTIV® DEFEND™ is suitable for ornamentals, vegetables, fruits, and tobacco. PRO-MIX® O AGTIV® DEFEND™ is for use in protected growing environments only (e.g. glasshouses or greenhouses) and not for use in non-protected environments (e.g. non-contained nurseries or slat houses).

OR

IMPORTANT: PRO-MIX® O AGTIV® DEFEND™ package a grow bag is suitable for ornamentals, vegetables, small fruits. PRO-MIX® O AGTIV® DEFEND™ packaged in a grow bag is for use in protected growing environments use (e.g. greenhouses or contained growing system)

OR

IMPORTANT: PRO-MIX® O AGTIV® DEFEND™ is suitable for mushrooms. PRO-MIX® O AGTIV® DEFEND™ is for use in protected growing environments use only (e.g. growing rooms) and not for use in non-protected environments (e.g. non-contained nurseries or slat houses).

FERTILIZATION

OPTIONAL TEXT

Initial plant development will occur without immediate fertilization. It is essential to initiate a fertilization program at the emergence of the first set of true leaves; this will ensure plants receive adequate nutrients. Select a fertilization program that is appropriate for the plant species grown, stage of development and water nutrient content. If you frequently analyze media nutrient levels and plant tissue throughout the production cycle, you can ensure plants receive proper nutritional requirements.

OR

Begin fertilization within 7 days after planting and maintain fertilizer applications throughout the course of crop production. The program selected should consider water nutrient content, crop type and stage of plant

development. It is advisable to periodically analyze nutrient content of fertilizer solution, growing medium and plant tissue to ensure proper nutrient levels and growing medium pH are maintained throughout the crop cycle.

WATER MANAGEMENT

OPTIONAL TEXT

An essential part of crop culture is water management. When plants require water, irrigate the crop early in the day. This will allow plant foliage and medium surface to dry. Also, medium temperature can warm to normal level by evening. Irrigate thoroughly so water ‘runs through’ to prevent salt accumulation and to ensure uniform wetting and drying of containers throughout the crop. If preferred, additional wetting agent can be applied during the crop cycle at irrigation to reduce surface tension of water for more thorough water penetration and movement throughout the root zone.

OR

Proper irrigation is essential for successful crops. When plants require water, irrigate the crop early in the day. This will allow plant foliage and medium surface to dry and allow growing medium temperature to rise to ambient temperature by evening. Irrigate thoroughly so water “runs through” to prevent soluble salts accumulation and to ensure uniform wetting and drying of containers throughout the crop. If preferred, during crop cycle additional wetting agent can be applied at irrigation to reduce the surface tension of water for thorough water penetration and movement throughout the root zone.

APPLICATION INFORMATION

OPTIONAL TEXT

- Use PRO-MIX® O AGTIV® DEFEND™ “as is” from package. Pre-moisten medium with water until slightly moist to the touch after emptying package.
- Thoroughly moisten medium to “water-in” plants after transplanting and placing in the protected growing environment.
- Do not add fertilizers when sowing seeds.
- Use for plants requiring a growing pH between 5.0 and 7.0.
- Do not sterilize or pasteurize PRO-MIX® O AGTIV® DEFEND™
- Do not store wet growing media, as pH will tend to climb from activation of limestone.
- Store products in sealed bags to avoid intrusion from water, pathogens, pesticides and weeds.
- Pesticides and chemical and/or biological plant regulator treatments can be used in combination with PRO-MIX® O AGTIV® DEFEND™
- Rotate product inventory to practice ‘First In – First out’. Product performance is best when used within 12 months of manufacturing date (see manufacturing date on package: yyyy.mm.dd.). For technical assistance, contact GROWER SERVICES: 1 800 424-2554.

OR

- Do not add fertilizers when sowing seeds.
- Use for plants requiring a growing pH between 5.0 and 7.0.
- Do not sterilize or pasteurize PRO-MIX® O AGTIV® DEFEND™
- Do not store wet growing media, as pH will tend to climb from activation of limestone.
- Store products in sealed bags to avoid intrusion from water, pathogens, pesticides and weeds.
- Pesticides and chemical and/or biological plant regulator treatments can be used in combination with PRO-MIX® O AGTIV® DEFEND™ and will provide extended protection throughout the growing season.
- Rotate product inventory to practice ‘First In – First Out’. Product performance is best when used within 12 months of manufacturing date (see manufacturing date on package: yyyy.mm.dd.). For technical assistance, contact GROWER SERVICES: 1 800 424-2554.

OR

Use for plants requiring a pH between 5.0 and 7.0. Store product away from excessive heat. Rotate product inventory to practice 'First In - First Out'. Product performance is best when used within 12 months of manufacturing date (see manufacturing date on package: yyyy.mm.dd.). Pesticides and chemical and/or biological plant regulator treatments can be used in combination with PRO-MIX® O AGTIV® DEFEND™ and will provide extended protection throughout the growing season. For technical assistance, contact GROWER SERVICES: 1 800 424-2554.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in a dry place at ambient temperature -22 to 86° F (-30 to 30 °C).

PESTICIDE DISPOSAL: To avoid waste, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Completely remove medium from the bag. Then offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration.

QUALITY GUARANTEE

PREMIER TECH GROWERS AND CONSUMERS INC. is committed to quality. If you are not satisfied with the quality of this product, PREMIER TECH GROWERS AND CONSUMERS INC. guarantees to replace it or refund its purchase price. To the extent consistent with applicable law, all other remedies, liabilities, including liability for direct or consequential damages, and warranties of merchantability and fitness for a particular purpose are excluded.

OPTIONAL TEXT:



PLEASE RECYCLE

RESPECTS ALL LEGISLATION ON HEAVY METALS

OR



PLEASE RECYCLE

RESPECTS ALL LEGISLATION ON HEAVY METALS

THIS PRODUCT RESPECTS ALL LEGISLATION ON HEAVY METALS

Information regarding the contents and levels of metals in this product is available on the Internet at <http://www.aapfco.org/metals.html>



SERVICES@PTHORTICULTURE.COM
PTHORTICULTURE.COM

OPTIONAL TEXT

PRODUCT OF CANADA

Manufactured For and Guaranteed

by:

**PREMIER TECH GROWERS AND
CONSUMERS INC.**

200 Kelly Road, Unit E-1

Quakertown, PA

18951 USA

Manufactured By:

PREMIER HORTICULTURE LTD.

1 avenue Premier

Rivière-du-Loup, Québec

G5R 6C1 Canada

Or

*OPTIONAL TEXT: Made in USA of U.S. and
imported ingredient*

Manufactured and Guaranteed by:

**PREMIER TECH GROWERS AND
CONSUMERS INC.**

200 Kelly Road, Unit E-1

Quakertown, PA

18951 USA

HEADQUARTERS

PREMIER HORTICULTURE LTD.

1 avenue Premier

Rivière-du-Loup, Québec

G5R 6C1 Canada

OPTIONAL LOGO:

