

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

August 3, 2022

Rachel Hardie Authorized Agent to Premier Horticulture Technology Sciences Group Inc. 1150 18th Street, Suite 475 Washington, DC 20036

Subject: Labeling Notification per Pesticide Registration Notice (PRN) 98-10 – to Add Alternate

Brand Names

Product Name: PRO-MIX GHA180 EPA Registration Number: 74267-3 EPA Receipt Date: May 5, 2022 Action Case Number: 00361056

Dear Ms. Hardie:

The U.S. Environmental Protection Agency (EPA) is in receipt of your application for notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Biopesticides and Pollution Prevention Division (BPPD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The labeling submitted with this application has been stamped "Notification" and will be placed in our records. The following alternate brand names have been added to the product's records:

- 1) PRO-MIX B BIO-FUNGICIDE
- 2) PRO-MIX AGTIV DEFEND
- 3) PRO-MIX B AGTIV DEFEND
- 4) PRO-MIX GENERIC PACK AGTIV DEFEND
- 5) PRO-MIX GROWING MEDIUM AGTIV DEFEND
- 6) PRO-MIX GPX AGTIV DEFEND
- 7) PRO-MIX FLX AGTIV DEFEND
- 8) PRO-MIX BX AGTIV DEFEND
- 9) PRO-MIX HP AGTIV DEFEND
- 10) PRO-MIX HPCC AGTIV DEFEND
- 11) PRO-MIX LP15 AGTIV DEFEND
- 12) PRO-MIX LP AGTIV DEFEND
- 13) PRO-MIX MPX AGTIV DEFEND
- 14) PRO-MIX BRK AGTIV DEFEND
- 15) PRO-MIX BK40 AGTIV DEFEND
- 16) PRO-MIX BRK20 AGTIV DEFEND
- 17) PRO-MIX BK20 AGTIV DEFEND
- 18) PRO-MIX FPX AGTIV DEFEND
- 19) PRO-MIX PGX AGTIV DEFEND

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- 20) PRO-MIX TA AGTIV DEFEND
- 21) PRO-MIX VFT AGTIV DEFEND

You must submit one (1) copy of the final printed labeling with the modifications.

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 the Federal Insecticide, Fungicide, and Rodenticide Act (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.

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

Sincerely,

Cerrelli, Susanne Digitally signed by Cerrelli, Susanne Date: 2022.08.03 13:40:05 -04'00'

Susanne Cerrelli, Risk Manager Microbial Pesticides Branch Biopesticides and Pollution Prevention Division (7511M) Office of Pesticide Programs

PRO-MIX® GHA180

Alternate Brand Names (ABNs):

PRO-MIX® BX GHA180, PRO-MIX® HP GHA180, PRO-MIX® HPCC GHA180, PRO-MIX® LP15 GHA180, PRO-MIX® MPX GHA180, PRO-MIX® MIX® BRK GHA180, PRO-MIX® BRK20 GHA180, PRO-MIX® FPX GHA180, PRO-MIX® PGX GHA180, PRO-MIX® TA GHA180, PRO-MIX® VFT GHA180,

PRO-MIX® BIOFUNGICIDE 2.0, PRO-MIX® BX BIOFUNGICIDE 2.0, PRO-MIX® HP BIOFUNGICIDE 2.0, PRO-MIX® HPCC BIOFUNGICIDE 2.0, PRO-MIX® LP15 BIOFUNGICIDE 2.0, PRO-MIX® MPX BIOFUNGICIDE 2.0, PRO-MIX® BRK BIOFUNGICIDE 2.0, PRO-MIX® BRK20 BIOFUNGICIDE 2.0, PRO-MIX® FPX BIOFUNGICIDE 2.0, PRO-MIX® PGX BIOFUNGICIDE 2.0, PRO-MIX® TA BIOFUNGICIDE 2.0, PRO-MIX® VFT BIOFUNGICIDE 2.0,

PRO-MIX® BIO-FUNGICIDE, PRO-MIX® B BIO-FUNGICIDE, PRO-MIX® BX BIO-FUNGICIDE, PRO-MIX® HP BIO-FUNGICIDE, PRO-MIX® HPCC BIO-FUNGICIDE, PRO-MIX® LP15 BIO-FUNGICIDE, PRO-MIX® MPX BIO-FUNGICIDE, PRO-MIX® BRK BIO-FUNGICIDE, PRO-MIX® BRK20 BIO-FUNGICIDE, PRO-MIX® FPX BIO-FUNGICIDE, PRO-MIX® PGX BIO-FUNGICIDE, PRO-MIX® TA BIO-FUNGICIDE and PRO-MIX® VFT BIO-FUNGICIDE

PRO-MIX® AGTIV® DEFEND™, PRO-MIX® B AGTIV® DEFEND™, PRO-MIX® GENERIC PACK AGTIV® DEFEND™, PRO-MIX® GROWING MEDIUM AGTIV® DEFEND™, PRO-MIX® GPX AGTIV® DEFEND™, PRO-MIX® FLX AGTIV® DEFEND™, PRO-MIX® BX AGTIV® DEFENDTM, PRO-MIX® HP AGTIV® DEFENDTM, PRO-MIX® HPCC AGTIV® DEFENDTM, PRO-MIX® LP15 AGTIV® DEFENDTM, PRO-MIX® LP AGTIV® DEFEND™, PRO-MIX® MPX AGTIV® DEFEND™, PRO-MIX® BRK AGTIV® DEFEND™, PRO-MIX® BK40 AGTIV® DEFEND™, PRO-MIX® BRK20 AGTIV® DEFEND™, PRO-MIX® BK20 AGTIV® DEFEND™, PRO-MIX® FPX AGTIV® DEFEND™, PRO-MIX® PGX AGTIV® DEFEND™, PRO-MIX® TA AGTIV® DEFEND™, PRO-MIX® VFT AGTIV® DEFEND™

SPHAGNUM PEAT-BASED GROWING MEDIUM WITH BIOFUNGICIDE FOR PROTECTED GROWING ENVIRONMENT USE (E.G. **GREENHOUSES OR CONTAINED NURSERIES)** OPTIONAL TEXT: ALSO SUPPRESSES FUNGUS GNATS AND THRIPS

KEEP OUT OF REACH OF CHILDREN

CAUTION

See First Aid and Additional Precautionary Statements on Back Panel

ACTIVE INGREDIENT:

Bacillus pumilus strain GHA180 (not less than 5 X 10⁴ viable spores per gram of media)0.001%

EPA Reg. No. 74267-3 EPA Establishment No. 74267-CAN-001/002/003/004

OTHER INGREDIENTS:99.999% Total......100.000%

For identification of establishment number, refer to the manufacturing identification, which is ink-jet printed within side bar. This indicates year.month.day, manufacture location (1, 2, 3, 4, or 6), military time and product identification. For example: 2016.01.15 2 02:45 BX. Manufacturing locations are coded as:

- 1: for Rivière-du-Loup, Quebec compressed products (EPA Establishment No. **74267-CAN-001**)
- 2: for Rivière-du-Loup, Quebec loose fill 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)

www.pthorticulture.com

Net weight	Volume
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)

NOTIFICATION

74267-3

The applicant has certified that no

changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

8/3/2022

PRO-MIX® GHA180; EPA Reg. No. 74267-3

Label notification

CLEANVERSION - Label version (65) dated Aug. April 2149, 20229

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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)

PRODUCT OF CANADA

Manufactured For and Guaranteed By: PREMIER HORTICULTURE INC. 200 Kelly Road, Unit E-1 Quakertown, PA 18951 USA

PRODUIT DU CANADA

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

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.
	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 (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 NIOSH-approved particulate respirator with any N, R, or P filter with NIOSH approval number prefix TC-84A or a NIOSH-approved powered air purifying respirator with an HE filter with NIOSH approval number prefix TC-21C. Repeated exposure 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 RECOMMENDATIONS

Users should:

• Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

PRO-MIX® GHA180; EPA Reg. No. 74267-3 Label notification • 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 washwater 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® GHA180 has been enriched with *Bacillus pumilus* bacteria that colonize developing root systems and suppress disease-causing organisms, such as *Pythium*, *Fusarium* and *Rhizoctonia*, 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. The bacteria also act as a biostimulant and develop with the plant root system as it grows. As a result, a vigorous root system is established, which results in more uniform plant stands after transplanting.

PRO-MIX® GHA180 CUSTOM BLENDS

PRO-MIX® GHA180 is a custom-blended growing medium designed to meet your growing needs.

• BX Blend. PRO-MIX® GHA180 (ABN: PRO-MIX® BX GHA180, PRO-MIX® BX BIOFUNGICIDE 2.0, PRO-MIX® BX BIO-FUNGICIDE) is a general purpose, peat-based growing medium formulated for the cultivation of horticultural plants. This growing medium contains a blend of select Canadian sphagnum peat moss, perlite, vermiculite, dolomitic limestone and calcitic limestone. This formulation is lightweight, is uniform and provides conditions necessary to establish plant growth.

- HP Blend. PRO-MIX® GHA180 (ABN: PRO-MIX® HP GHA180, PRO-MIX® HP BIOFUNGICIDE 2.0, PRO-MIX® HP BIO-FUNGICIDE) is a high porosity, peat-based growing medium formulated for the cultivation of horticultural plants. This lightweight and porous growing medium provides conditions necessary to establish plant growth, especially when growing situations require a medium with high air capacity and low water retention. This formulation is excellent for use with water-sensitive crops, for propagation of plant cuttings and/or for low-light growing conditions.
- HPCC Blend. PRO-MIX® GHA180 (ABN: PRO-MIX® HPCC GHA180, PRO-MIX® HPCC BIOFUNGICIDE 2.0, PRO-MIX® HPCC BIO-FUNGICIDE) is a coarse-textured, high porosity, peat-based growing medium that is blended with 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 horticultural plants.
- LP15 Blend. PRO-MIX® GHA180 (ABN: PRO-MIX® LP15 GHA180, PRO-MIX® LP15 BIOFUNGICIDE 2.0, PRO-MIX® LP15 BIO-FUNGICIDE) is a multipurpose, peat-based, perlite growing medium formulated for growers that prefer a low amount of aggregate and no vermiculite. PRO-MIX® GHA180 (ABN: PRO-MIX® LP15 GHA180, PRO-MIX® LP15 BIO-FUNGICIDE 2.0, PRO-MIX® LP15 BIO-FUNGICIDE) is suitable for a wide range of greenhouse and transplanting applications.
- MPX Blend. PRO-MIX® GHA180 (ABN: PRO-MIX® MPX GHA180, PRO-MIX® MPX BIOFUNGICIDE 2.0, PRO-MIX® MPX BIO-FUNGICIDE) is a peat-based 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. PRO-MIX® GHA180 (ABN: PRO-MIX® MPX GHA180, PRO-MIX® MPX BIOFUNGICIDE 2.0, PRO-MIX® MPX BIO-FUNGICIDE) is suitable for a wide variety of plant species.
- BRK Blend. PRO-MIX® GHA180 (ABN: PRO-MIX® BRK GHA180, PRO-MIX® BRK BIOFUNGICIDE 2.0, PRO-MIX® BRK BIO-FUNGICIDE) is a mediumweight, peat/bark-based growing medium formulated for the cultivation of horticultural plants. Processed pine 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 plant growth, particularly when container stability and low water retention are required.
- BRK20 Blend. Similar to the BRK Blend, PRO-MIX® GHA180 (ABN: PRO-MIX® BRK20 GHA180, PRO-MIX® BRK20 BIOFUNGICIDE 2.0, PRO-MIX® BRK20 BIO-FUNGICIDE) is a peat/bark-based growing medium with 20% processed pine bark to add weight and reduce water retention of the medium. This combination forms a base for a "general use" growing medium that provides the conditions necessary to establish plant growth when less bark is required.
- FPX Blend. PRO-MIX® GHA180 (ABN: PRO-MIX® FPX GHA180, PRO-MIX® FPX BIOFUNGICIDE 2.0, PRO-MIX® FPX BIO-FUNGICIDE) is a fine peat, perlite-based 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. When in use, this blend retains less water than peat/vermiculite blends.

- PGX Blend. PRO-MIX® GHA180 (ABN: PRO-MIX® PGX GHA180, PRO-MIX® PGX BIOFUNGICIDE 2.0, PRO-MIX® PGX BIO-FUNGICIDE) is a peat-based growing medium formulated for germinating ornamental and vegetable seeds. This fine-textured blend contains a base of short-fibered sphagnum peat moss and fine grade vermiculite and is well suited for traditional seeding and plug-system applications.
- TA Blend. PRO-MIX® GHA180 (ABN: PRO-MIX® TA GHA180, PRO-MIX® TA BIOFUNGICIDE 2.0, PRO-MIX® TA BIO-FUNGICIDE) is a peat-based growing medium formulated for germinating and growing-on of tobacco and agriculture transplants. This blend is ideal for use with trays/flats cultivated in sub-irrigated float systems and irrigation methods. This fine-textured blend is user-friendly for filling small cell trays and flats with automated equipment or by hand.
- VFT Blend. PRO-MIX® GHA180 (ABN: PRO-MIX® VFT GHA180, PRO-MIX® VFT BIOFUNGICIDE 2.0, PRO-MIX® VFT BIO-FUNGICIDE) is a peat-based growing medium formulated for germinating and growing-on of vegetable, fruit and tobacco transplants. This blend is ideal for use with trays/flats cultivated in sub-irrigated float systems and irrigation methods. (Optional Text: This formulation contains a blend of ingredients that allows oxygen and water to move freely for uniform seed germination and plant growth. This fine-textured blend is user-friendly for filling small cell trays and flats with automated equipment or by hand. USES: Vegetable Transplants, Fruit Transplants, Tobacco Transplants, Germination of Tobacco and Vegetable Seeds, Float Trays, Sub-Irrigation Systems).

To determine the best **PRO-MIX**® **GHA180** 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.

PRO-MIX® GHA180 Base Formula	Sphagnum Peat Moss	Perlite	Vermiculite	Bark	Coir	Starter Nutrients	Ground Limestone	Wetting Agent	BIOFUNGICIDE Bacillus pumilus strain GHA180
BX Blend	75-85%/vol.								
HP Blend	 65-75%/vol.								
HPCC Blend	 65-75%/vol.								
LP15 Blend	80-90%/vol.								
MPX Blend	85-95%/vol.								
BRK Blend	40-50%/vol.			*1					
BRK20 Blend	 60-70%/vol.			*1					

FPX Blend	80-90%/vol.			 	
PGX Blend	75-85%/vol.			 	
TA Blend	80-90%/vol.			 	
VFT Blend	75-85%/vol.			 	

^{*1 –} Processed pine

PREPARATION

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.

IMPORTANT: PRO-MIX® GHA180 is suitable for ornamentals, vegetables, fruits, and tobacco. PRO-MIX® GHA180 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).

FERTILIZATION

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.

WATER MANAGEMENT

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.

APPLICATION INFORMATION

- Use PRO-MIX® GHA180 "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.

⁻⁻⁻⁻ Component present in blend

- Do not sterilize or pasteurize PRO-MIX® GHA180.
- 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 plant regulator treatments can be used in combination with **PRO-MIX® GHA180** 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.).

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 a 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 empty 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 HORTICULTURE INC. **is committed to quality**. If you are not satisfied with the quality of this product, PREMIER HORTICULTURE 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.

PLEASE RECYCLE

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 (for USA only).

Optional logo





Manufactured For and Guaranteed By:

PREMIER HORTICULTURE INC. 200 Kelly Road, Unit E-1

Quakertown, PA USA 18951

For additional information, call:

1-800-525-2553 www.pthorticulture.com

Manufactured By:

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

For additional information, call:

1-800-667-5366 www.pthorticulture.com

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