



United States  
Environmental Protection Agency  
Washington, DC 20460

<input type="checkbox"/>	Registration
<input type="checkbox"/>	Amendment
<input checked="" type="checkbox"/>	Other

OPP Identifier Number

### Application for Pesticide - Section I

1. Company/Product Number 74267-1	2. EPA Product Manager Dennis Szuhay	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) PRO-MIX with Biofungicide	PM# Microbial Pesticides Br/BPPD	
5. Name and Address of Applicant (Include ZIP Code) Premier Horticulture Inc. 127 South Fifth Street, Suite 300 Quakertown, PA 18951 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

### Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____	<b>NOTIFICATION</b> Date Reviewed: <u>5-4-04</u> Reviewed By: <u>[Signature]</u>
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.	
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.	

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification of an alternate brand names and alternate descriptive text per PR Notice 98-10. Refer to cover letter for details.

This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula for this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

### Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal	<input type="checkbox"/> Plastic
* Certification must be submitted				<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt.	No. per container	<input type="checkbox"/> Other (Specify) _____	
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> on container label	
6. Manner in Which Label is Affixed to Product			<input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled	<input type="checkbox"/> Other _____	

### Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)					
Name Amy Plato Roberts		Title Regulatory Consultant		Telephone No. (Include Area Code) (202) 828-8964	
<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.					6. Date Application Received (Stamped) 
2. Signature 			3. Title Regulatory Consultant		
4. Typed Name Amy Plato Roberts			5. Date March 12, 2004		

Product Label: PRO-MIX with Biofungicide –Master Label (7 pages)  
 Product Category: Professional  
 Package Size: 3.8 cu.ft. compressed and 3 cft loose fill bag  
 Date: Apr 12, 2004 – 04/12/04  
 NOTIFICATION to ...

(FRONT PANEL)

# PRO-MIX with Biofungicide

(Alternate Brand Names: SOGEMIX 'VT-M' with Biofungicide; PRO-MIX 'FPX' with Biofungicide; PRO-MIX 'VFT' with Biofungicide; PRO-MIX 'VFT' with Biofungicide; PRO-MIX 'VFT' with Biofungicide; PRO-MIX 'VFT' with Biofungicide; PRO-MIX 'VFT' with Biofungicide; PRO-MIX 'VFT' with Biofungicide)

**ACTIVE INGREDIENT:**  
*Bacillus subtilis*, MBI 600 (not less than 1 X 10<sup>5</sup> viable spores per gram of media) ..... 0.001%  
**OTHER INGREDIENTS:** ..... 99.999%

<p><u>Optional Text:</u></p> <ul style="list-style-type: none"> <li>- PROFESSIONAL</li> <li>- GROWING MEDIUM WITH BIOFUNGICIDE</li> <li>- FINE-GRADE PLUG GROWING MEDIUM</li> <li>- SPHAGNUM PEAT-BASED GROWING MEDIA</li> <li>- FOR GREENHOUSE OR GLASSHOUSE USE</li> <li>- VEGETABLE, FRUIT &amp; TOBACCO GROWING MEDIUM</li> <li>- VEGETABLE TRANSPLANT GROWING MIX WITH BIOFUNGICIDE</li> <li>- VFT-03BT</li> <li>- (Logo) Research (Investigacion), Quality Control (Control de Calidad)</li> <li>- Other Ingredients include:             <ul style="list-style-type: none"> <li>• (Canadian) (Sphagnum) Peat Moss, fine granulation (or short fiber) (60-80% by volume)</li> <li>• Vermiculite, fine granulation</li> <li>• Perlite, plug grade</li> <li>• Dolomitic and Calcitic Limestone (pH adjuster)</li> <li>• Fertilizers</li> <li>• Wetting Agent</li> </ul> </li> </ul>	<p><b>NOTIFICATION</b></p> <p>Date Reviewed: <u>5-4-04</u></p> <p>Reviewed By: <u>[Signature]</u></p>
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**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION**  
 See Additional Precautionary Statements on Side Panel

EPA Reg. No. 74267-1

EPA Establishment No. 74267-CAN-01/02/03/04

For identification of establishment number, refer to the manufacturing identification, which is ink-jet printed within white bar. This indicates year/month/day/manufacture location/manufacture shift, military time and product identification. For example: 2002/07/01 1 02 02:45 BX. Manufacturing locations are coded as:

- Factory Code:
- 1 for Riviere-du-Loup, Quebec - compressed products (EPA Establishment No. 74267-CAN-01)
  - 2 for Riviere-du-Loup, Quebec - loose fill products (EPA Establishment No. 74267-CAN-02)
  - 3 for St. Anne, Manitoba (EPA Establishment No. 74267-CAN-03)
  - 4 for Northal, Alberta (EPA Establishment No. 74267-CAN-04)

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(SIDE PANEL)

**PRECAUTIONARY STATEMENTS**

**Hazards to Humans and Domestic Animals. CAUTION:** Avoid contact with eyes. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling.

**Personal Protective Equipment:** Applicators and other handlers must wear long-sleeved shirt and long pants, and shoes plus socks. As a general precaution when exposed to living microbial products such as this, applicators (persons opening bags and/or filling potting machines) must wear a dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95 or P-95. Follow manufacturer's instructions for cleaning / maintaining PPE. Keep and wash PPE separately from other laundry.

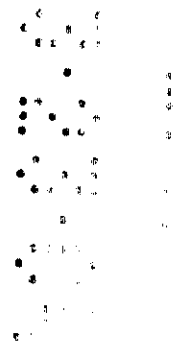
**Environmental Hazards:** For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to inter-tidal areas below the mean high-water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash water.

**User Safety Recommendations:** Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

**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.
- Call a poison control center or doctor for treatment advice.



(BACK PANEL)

## PRO-MIX with Biofungicide

GROWING MEDIUM WITH BIOFUNGICIDE  
FINE-GRADE PLUG GROWING MEDIUM  
SPHAGNUM PEAT-BASED GROWING MEDIA  
FOR GREENHOUSE OR GLASSHOUSE USE  
VEGETABLE, FRUIT & TOBACCO GROWING MEDIUM  
VEGETABLE TRANSPLANT GROWING MIX WITH BIOFUNGICIDE

**PRO-MIX with Biofungicide** has been enriched with Subtilex® (active ingredient: *Bacillus subtilis* MBI 600), a biofungicide that prevents root diseases. The *Bacillus subtilis* bacteria colonize developing root systems, and suppress disease-causing organisms, such as *Pythium*, *Fusarium*, *Rhizoctonia*, *Alternaria* and *Aspergillus*, which attack root systems. The bacteria also act as a biostimulant developing with the growing root system. As a result, a vigorous root system is (then) established that results in more uniform plant stands after transplanting and crop response. (Optional Text: As a result, a vigorous root system is established that results in more uniform plant stands after transplanting in the field and in greater crop yields).

### PRO-MIX With Biofungicide Custom Blends

PRO-MIX With Biofungicide is a custom blended growing medium designed to meet your growing needs.

- **BX Blend.** The BX Blend (PRO-MIX 'BK' with Biofungicide) is a 'General Purpose' peat-based (professional) growing medium formulated (designed) for the cultivation of horticultural plants. This growing medium (It) contains a blend of select Canadian Sphagnum peat moss, perlite, vermiculite, dolomitic and calcitic limestone. This formulation is lightweight, uniform and provides conditions necessary to establish plant growth. PRO-Mix 'BX' with Biofungicide is suitable for a wide variety of plants.
- **BRK Blend.** The BRK Blend (PRO-MIX 'BRK' with Biofungicide) is a medium-weight, Peat/Bark-based growing medium designed for the cultivation of horticulture plants. Processed pine bark adds weight and reduces water retention of media while (quality) Sphagnum peat moss is light-weight and possesses high water-holding ability (ensures the optimal balance between air and water). This combination forms a base for a "general use" growing medium that provides conditions necessary to establish plant growth, particularly when container stability and low-water retention are required.
- **GSX Blend.** The GSX Blend is a medium-weight, Peat/Bark-based growing medium designed for the cultivation of horticulture plants with automated drip and subirrigation watering systems. It contains a blend of Canadian Sphagnum peat moss, composted softwood bark and coarse perlite to form a porous growing medium which allows water drainage and air exchange for developing root systems.
- **HP Blend.** The HP Blend is a 'High Porosity' peat-based growing medium designed for the cultivation of horticultural plants. This lightweight and porous growing medium provides conditions necessary to establish plant growth, especially when growing situations require medium with high air-capacity and low water-retention. This formulation is excellent for use with water sensitive crops, propagation of plant cuttings and /or low-light growing conditions.

- **FPX Blend.** The FPX Blend is a fine peat/perlite-based growing medium for germinating ornamental and vegetable seeds in small cell plug trays. It contains a base blend of short-fiber 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.
- **NCX Blend.** The NCX Blend is a medium-weight, peat/bark-based growing medium designed for containerized perennial and nursery plants. Processed coarse pine bark adds weight and reduces water retention of media while Sphagnum peat moss ensures the optimal balance between air and water. PRO-MIX 'NCX' is ideal when container stability and low water retention is a needed, particularly for large container applications.
- **PGX Blend.** The PGX Blend is a peat-based growing medium designed for germinating ornamental and vegetable seeds. This fine textured blend contains a base of short-fiber Sphagnum peat moss and fine grade vermiculite and is well suited for traditional seeding and plug-system applications.
- **TA Blend.** The TA Blend 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 subirrigated float systems and conventional irrigation methods. This fine textured blend is user-friendly for filling small cell trays and flats with automated equipment or by hand.
- **VFT Blend.** The VFT Blend is a peat-based growing medium formulated for germinating and growing-on of vegetable, fruit and tobacco transplants. This blend is designed for use with trays/flats cultivated in subirrigated float systems and conventional irrigation methods. (Optional Text: This formulation contains a blend of ingredients that allow 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, Subirrigation systems.)

To determine the best PRO-MIX With Biofungicide custom 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 and Mexico: (800) 424-2554; Canada: (800) 667-5366.

PRO-MIX Base Formula	Sphagnum Peat Moss	Perlite	Vermiculite	Bark	Starter Nutrients	Limestone	Wetting Agent
BX	75-85%/vol.	----	----		----	----	----
HP	65-75%/vol.	----			----	----	----
GSX	55-65%/vol.	----		*1 25-35%/vol.	----	----	----
BRK	40-50%/vol.	----		*2 35-45%/vol.	---- ++	----	----
NCX	47-57%/vol.		----	*2 35-45%/vol/	---- ++	----	----
PGX	65-75%/vol.		plug-grade		----	----	----
TA	----		----		----	----	----

6/8

65-75%/vol.	plug-grade	++
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\*1 – Composted spruce  
 \*2 – Processed pine

Optional Text/Table:

To determine the best PRO-MIX With Biofungicide custom blend for your growing needs, consult the following table. For technical assistance, plant compatibility information and crop culture guidelines, contact PREMIER GROWER SERVICES –USA and Mexico: (800) 424-2554; Canada: (800) 667-5366.

Blend	Bedding Trays	Hanging Baskets*	Potted Plants*	Perennials & Hardy Mums	Cuttings**	Seed Germination	Float Trays	Subirrigation Systems
BX Blend	✓	✓	✓	✓	✓	✓		✓
BRK Blend	✓		✓	✓				✓
GSX Blend	✓		✓	✓				✓
HP Blend	✓	✓	✓	✓	✓			✓
FPX Blend						✓	✓	✓
NCX Blend				✓				
PGX Blend						✓	✓	✓
TA Blend						✓	✓	✓
VFT Blend						✓	✓	✓

\* Intended for annuals, bulbs, flowering and/or foliage plants

\*\* Intended for the propagation of cuttings, such as flowering, foliage, herbaceous and woody plants.

### DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation. 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.

### 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 intervals (REI). The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

There is a zero (0) restricted entry interval for this product.

### PREPARATION:

Open package at the time of seeding, potting or transplanting. Potting benches and equipment should be located in a clean, weed-free area. Add water to PRO-MIX with Biofungicide until slightly moist to the touch. 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 greenhouse.

(Optional Text: Select trays and flats that provide adequate drainage and fill completely with moistened medium, taking care not to compact. Do not pack down. Compaction reduces air space

and can adversely affect germination and seedling growth. So seeds according to seed packet directions and irrigate with water. Place newly sown trays in suitable growing area and maintain air/medium temperatures that favor plant species grown. / Sow seeds, transplant cuttings, seedlings, ect. in moistened medium taking care to avoid compaction (do not press down around seed or root systems). Be sure that all flats and trays have adequate drainage. After seeding/transplanting, add water to settle medium. Place newly sown/transplanted trays and pots in a suitable growing area within the greenhouse.)

**IMPORTANT:** PRO-MIX with Biofungicide is suitable for fruit and vegetable seedlings, and transplants. Do not use for plants bearing fruit. PRO-MIX with Biofungicide is for use in protected growing environments only (e.g. glasshouse or greenhouse): 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 insure 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 with Biofungicide** "as is" from package. Add water to moisten.
- Thoroughly moisten medium to "water-in" plants after transplanting and placing in the greenhouse.
- 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 with Biofungicide**.
- Do not store wet growing media, as pH will tend to climb from activation of limestone.
- Store products in sealed bags to (preserve quality) (avoid intrusion from water, pathogens, pesticides and weeds).
- Pesticides and chemical growth regulator treatments can be used in combination with **PRO-MIX with Biofungicide** and will provide extended protection throughout the growing season. (*Optional Text:* The biofungicide-enriched media can be used with pesticide and chemical treatments and will provide extended protection throughout the growing season.)

**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal. Do not contaminate water by cleaning of equipment or disposal wastes.

**STORAGE:** Store in a dry place.

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

8/8

**CONTAINER DISPOSAL:** Completely empty bag by shaking and tapping sides and bottom to loosen clinging particles. Dispose of bag in the trash.

**QUALITY GUARANTEE**

PREMIER HORTICULTURE is committed to quality. All PRO-MIX professional products are made with high-quality components. If for any reason you are not completely satisfied with the quality of this product, you may return this package to the seller and PREMIER HORTICULTURE guarantees to replace it or refund its purchase price, at your choice. As usual with similar products, all other remedies and liabilities including, liability for direct or consequential damages, warranties of merchantability and fitness for a particular purpose are excluded.

**PRODUCT OF CANADA**

**Manufactured by:**

PREMIER HORTICULTURE, INC.  
Quakertown, PA 18951  
For additional information, call:  
(215) 529-1290 or (800) 525-2553  
[www.premierhort.com](http://www.premierhort.com)

PREMIER HORTICULTURE LTD  
Riviere-du-Loup, Canada G5R 6C1  
For additional information, call:  
(514) 631-6700 or (800) 667-5366

SUBTILEX is a registered trademark of MicroBio Limited and the strain of *Bacillus subtilis* is a product of Becker Underwood, Inc.