

74267-4

03/15/2012

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U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Biopesticides and Pollution Prevention Division (7511P)  
1200 Pennsylvania Avenue NW  
Washington, DC 20460

**NOTICE OF PESTICIDE REGISTRATION**

Registration  
 Reregistration  
(under FIFRA, as amended)

EPA Reg. Number:  
74267-4

Date of Issuance:  
MAR 15 2012

Term of Issuance:  
Unconditional

Name of Pesticide Product:  
PRO-MIX® TANDEM

Name and Address of Registrant (include ZIP Code):

Premier Horticulture Ltd  
c/o Gary Libman, Principal  
GNL Consultation Services  
25 Casa Hermosa  
Albuquerque, NM 87112

**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.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his 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 this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This registration does not eliminate the need for continual reassessment of the pesticide. If EPA determines at any time, that additional data are required to maintain in effect an existing registration, the Agency will require submission of such data under section 3(c)(2)(B) of FIFRA.

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) and is subject to the following terms and conditions:

- 1. Submit two (2) copies of the revised final printed labeling before you release the product for shipment

A stamped copy of the label is enclosed for your records.

Signature of Approving Official:

W. Michael McDavit, Associate Director  
Biopesticides and Pollution Prevention Division (7511P)

Date:

MAR 15 2012

EPA Form 8570-6

CONCURRENCES

|         |               |  |  |  |  |  |  |
|---------|---------------|--|--|--|--|--|--|
| SYMBOL  | ▶ 7511P       |  |  |  |  |  |  |
| SURNAME | ▶ [Signature] |  |  |  |  |  |  |
| DATE    | ▶ 3-15-12     |  |  |  |  |  |  |

EPA Form 1320-1A (1/90)

OFFICIAL FILE COPY

# PRO-MIX<sup>®</sup> TANDEM

**PROFESSIONAL  
SPHAGNUM PEAT-BASED GROWING MEDIUM  
WITH BIOFUNGICIDE FOR GREENHOUSE OR CONTAINED NURSERIES  
USE**

**CAUTION:**  
KEEP OUT OF REACH OF CHILDREN  
See Additional Precautionary Statements on Back Panel

|  |  |
|--|--|
| <p><b>ACTIVE INGREDIENT:</b><br/><i>Bacillus pumilus</i> GHA180 (not less than 5 X 10<sup>4</sup> viable spore per gram of media) .....0.001%<br/><b>OTHER INGREDIENTS:</b> .....99.999%<br/>Total.....100.00 %</p>  | <p align="center"><b>EPA Reg. No. 74267-4<br/>EPA Establishment No. XXXXXX</b></p>   |
| <p>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 / manufacture shift, military time and product identification. For example: 2002 / 07 / 01 1 02 02:45 BX. Manufacturing locations are coded as:</p> | <p>1 for Riviere-du-Loup, Quebec - compressed products (EPA Establishment No. XXXXXX)<br/>2 for Riviere-du-Loup, Quebec - loose fill products (EPA Establishment No. XXXXXX)<br/>3 for St. Anne, Manitoba (EPA Establishment No. XXXXXX)<br/>4 for Northal, Alberta (EPA Establishment No. XXXXXX)</p> |
| <p><a href="http://www.premierhort.com">www.premierhort.com</a></p>  |  |

2.8 Cu. Ft. loose (85 L), 3.8 Cu. Ft. compressed (107 L), 55 Cu. Ft. compressed (1 557 L),  
60 Cu. Ft. loose (1 700 L), 70 Cu. Ft. loose (1 980 L), 80 Cu. Ft. loose (2 265 L),  
135 Cu. Ft. compressed (3 825 L).

Batch Code:

**ACCEPTED**

**MAR 15 2012**

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No.

74267-4

**PROFESSIONAL  
PRO-MIX® TANDEM**

**PRECAUTIONARY STATEMENTS**

**Hazards to Humans and Domestic Animals. CAUTION:** Causes moderate eye irritation .Avoid contact with eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

**Personal Protective Equipment (PPE):** 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.

**Environmental Hazards:** For terrestrial uses, do not apply directly to water, or to areas where surface water is present. Do not contaminate water when cleaning equipment or disposing of equipment wash water.

**User Safety Recommendations:**

Users should remove clothing/PPE immediately if product gets inside. Then wash thoroughly and put on clean clothing.

**FIRST AID**

|                   |  |
|-------------------|--|
| <b>If in Eyes</b> | <ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Contact a poison control center or doctor for treatment advice.</li> </ul> <p>Have the product container or label with you when calling a poison control center or doctor or going for treatment.</p> <p>For emergency information on (product, use, etc.), call the National Pesticides Information Center at 1-800-858-7378, 6:30 AM to 4:30 PM Pacific time (PT), seven days a week. During other times, call the poison control center 1-800-222-1222.</p> |
|-------------------|--|

**PRO-MIX® TANDEM** has been enriched with GHA180® (active ingredient: *Bacillus pumilus* GHA180), a biofungicide that prevents root diseases. The *Bacillus pumilus* 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 in greater crop response. In addition, the *Glomus intraradices* fungi, contained in **PRO-MIX® TANDEM**, attach to and colonize root systems working in symbiosis with plants. Endomycorrhizal fungi benefit the host plant by increasing acquisition of water and nutrients (especially phosphorus, copper and zinc) by

forming an extensive mycorrhizal root system. In exchange, the plant provides soluble sugars to the fungus. This symbiotic relationship between fungi and plant results in overall improved plant growth.

### PRO-MIX® TANDEM Custom Blends

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

- **'BX' Blend.** The BX Blend is a peat-based 'General Purpose' growing medium formulated for the cultivation of horticultural plants. This growing medium 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.
- **'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.
- **'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 sub-irrigated 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.
- **'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-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.
- **'MPX' Blend.** PRO-MIX 'MPX' is a peat-based professional growing medium designed 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 'MPX' is suitable for a wide variety of plant species.
- **'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-fibered Sphagnum peat moss and fine grade vermiculite and is well suited for traditional seeding and plug-system applications.
- **'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 sub-irrigated 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).

• **‘BRK’ Blend.** The BRK Blend 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 Sphagnum peat moss is light-weight and possesses high water-holding ability. 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.

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

| Blends | Sphagnum peat moss       | Perlite                                | Vermiculite                            | <i>Glomus intraradices</i> | Starter nutrients        | Limestone                | Wetting agent            | Bark                     |
|--------|--------------------------|--|--|----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| BX     | <input type="checkbox"/> | <input type="checkbox"/>               | <input type="checkbox"/>               | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                          |
| HP     | <input type="checkbox"/> | <input type="checkbox"/>               |  | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                          |
| TA     | <input type="checkbox"/> |  | <input type="checkbox"/><br>plug-grade | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                          |
| FPX    | <input type="checkbox"/> | <input type="checkbox"/><br>plug-grade |  | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                          |
| MPX    | <input type="checkbox"/> | <input type="checkbox"/>               |  | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                          |
| PGX    | <input type="checkbox"/> |  | <input type="checkbox"/><br>plug-grade | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                          |
| VFT    | <input type="checkbox"/> |  | <input type="checkbox"/><br>plug-grade | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                          |
| BRK    | <input type="checkbox"/> | <input type="checkbox"/>               |  | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

### DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labelling. For any requirements specific to your State or Tribe, consult the State or Tribal 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 labelling 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® TANDEM** 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.

**IMPORTANT: PRO-MIX® TANDEM is suitable for fruit and vegetable transplants. PRO-MIX® TANDEM 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® TANDEM** "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® TANDEM**.
- 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 growth regulator treatments can be used in combination with **PRO-MIX® TANDEM**, 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 at ambient temperature (-30 to 30 °C).

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

**CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill this container. Completely empty bag by shaking and tapping sides and bottom to loosen clinging particles. Offer for recycling if available or dispose of bag in trash.

### QUALITY GUARANTEE

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

**PLEASE RECYCLE**

**RESPECTS ALL LEGISLATION ON HEAVY METALS**



**Manufactured For:**

PREMIER HORTICULTURE INC.

Quakertown, PA USA 18951

**For additional information, call:**

1 800 525-2553

[www.premierhort.com](http://www.premierhort.com)

**Manufactured By:**

PREMIER HORTICULTURE LTD

Rivière-du-Loup (Québec) Canada G5R 6C1

**For additional information, call:**

1 800 667-5366

[www.premierhort.com](http://www.premierhort.com)

**Product of Canada**