68539-3

9/26/2013

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460



OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

Mr. John Francis Technical Services Manager, BioWorks®, Inc. 100 Rawson Road, Suite 205 Victor, New York 14564

SEP 26 2013

RE: Product Names: T-22G Biological Fungicide; RootShield® Granules Biological Fungicide
 EPA Reg. №: 68539-3
 Decision №: D798793
 Application for May 3, 2013
 Notification Date:

Dear Mr. Francis:

The Biopesticides and Pollution Prevention Division has received your application for Notification under PR Notice 98-10; we have determined that this action falls within the scope of this Notice. Our records have been duly noted, and an updated stamped label reflecting the addition of the qualifier—Not for Use in California, as it relates to certain crop groupings—will be placed in the registration jacket and uploaded to the Agency's Pesticide Product Label System.

A stamped copy of the label is enclosed for your records. If you have any questions regarding this letter, please contact Kathleen Martin of my staff (martin.kathleen@epa.gov; 703-308-2857).

Sincerely,

Kimberly Nesci, Chief Microbial Pesticides Branch Biopesticides and Pollution Prevention Division

Enclosure: T-22G Biological Fungicide Stamped Label

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Please read instructions of	reverse before complet	ting form.		Form Approved,	OMB No. 207	0.0060	Print Form
\$ EPA	Environmental	Inited States Protection Ington, DC 2046			Registrati Amendmo Other		OPP Identifier Number
		Application	n for Pesticic	le - Section	I		
1. Company/Product Numl 68539-3	187		2. EPA P Shervi	roduct Manager Reilly			osed Classification
4. Company/Product (Nam RootShield Granules B			PM# BPPD	- Microbials			lone Restricted
5. Name and Address of A BioWorks, Inc.	pplicant <i>(Include ZIP Co</i>	de)					FRA Section 3(c)(3) position and labeling
100 Rawson Road, Sui		(14564		eg. No		<u></u>	,
Check if t	nis is a new address			ct Name			
	·		Section - I				
Amendment - Expl	sponse to Agency letter	dated	[]	Final printed label Agency letter data "Me Too" Applica Other - Explain be	nd	0	
Explanation: Use addit Notification to add the notification statement	qualifier "Not for Use	-		relates to certain	crop groupin	gs. Please	e see attached
			Section - II	[
1. Material This Product V		·····	·····		r		
Child-Resistant Packaging Yes* X No	Unit Packaging Yes X No		Water Soluble Pr Yes X No	ackaging		ontainer Metal Plastic Glass	
* Certification must be submitted	lf "Yes" Unit Packaging wgt.	No. per . conteiner	lf "Yes" Package wgt	No. per container		Paper Other (Spe	acify)
3. Location of Net Conten	ts Information Container	4. Size(s) Reta 10,40,500,10		5. Lo	Cation of Label On Label On Labelin		3 anying product
6. Manner in Which Label	is Affixed to Product	X Lithogra Paper g Stencile	lued	Other			
			Section - IV	/			
1. Contact Point /Comple	te items directly below	for identification	of individual to be	e contacted, if nec			<u> </u>
Name Jamie Aggas			Fitle Regulatory Coor	dinator		clankone 585 5 924-4	No. (Inclúde: Area Code) 1362 - C
l certify that the sta I acknowledge that both under applicab	tements i have made or any knowingly felse or r ie law.	Certificat this form and a misleading state	all attachments the	ereto are true, acci shable by fine or ir	urate and comp mprisonment of	ις ς Ιστο, ς	3. Dete Application Received CCCCC (Stamped)
2. signature	aggas		. Title Regulatory Coor	dinator			
4. Typed Name Jamie Aggas	U g	5	5. Date May 3, 2013				ίζ
EPA Form 8570-1 (Rev. 8	94) Previous editions ar	e obsolete.		White - E	PA File Copy (original)	Yellow - Applicant Copy



BioWorks, Inc. 100 Rawson Road, Suice 205 Victor, NY 14564 p 800 877 9443 585 924 4362 f 800 903 2377 585 924 4412

www.bioworksinc.com

May 3, 2013

Document Processing Desk Biopesticides & Pollution Prevention Division Office of Pesticide Programs (7504C) U. S. Environmental Protection Agency Ariel Rios Building 1200 Pennsylvania Avenue, N.W. Washington, DC 20460

Attention: Sheryl Reilly

Subject: T22 G Biological Fungicide (EPA Reg. No. 68539-3) Notification

Dear Ms. Reilly:

Please accept this notification to add the qualifier "Not for Use in California" to the label as it relates to certain crop groupings. You will find the following included in this submission:

- 1. Application Form 8570-1
- 2. One redlined copy of the revised Master label
- 3. Three clean copies of the revised Master label

Please feel free to contact me with any questions or if you need additional information.

Sincerely,

e Agga

Jamie Aggas jaggas@bioworksinc.com Phone (585) 924-4362 x342

T-22G
Biological Fungicide

Notification Accepted

Date: Sptember 26, 2013

Roviewer: Kathleen Martin Microbial Products Blar

(<u>Alternate Brand Names</u>: RootShield[®] Granules Biological Fungicide; T-22 G Granules Biological Fungicide)

ACTIVE INGREDIENT

Trichoderma harzianun	n Rifai strain T-22*.	1.15%
OTHER INGREDIEN	TS	<u>98.85</u> %
******	107 1 0 1	• ,

*Contains at least $1.0 \ge 10^{7}$ colony forming units per gram dry weight.

KEEP OUT OF REACH OF CHILDREN CAUTION

	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.
HOTINE	

HOT LINE NUMBER: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-222-1222 for emergency medical treatment information.

[See attached label booklet for First Aid, Precautionary Statements, Storage and Disposal Instructions and Directions for Use]

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS - CAUTION: Causes moderate eye irritation. Avoid contact with eyes or clothing. Wear protective eyewear. 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 and other handlers must wear protective eyewear, long-sleeved shirt and long pants, waterproof gloves, and shoes plus socks. Mixer/loaders and applicators must wear a dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95, or P-95. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization. Follow manufacturer's directions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS:

Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on 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 washwaters or rinsate.

EPA Reg. No.:68539-3EPA Est. No.:068539-NY-001

Manufactured by: BioWorks, Inc., 100 Rawson Road, Ste. 205, Victor, NY 14564 (800) 877-9443

www.bioworksinc.com Net Weight:

Lot No.:

MASTER LABEL Page 1 of 6 T-22G Biological Fungicide; EPA Reg. No. 68539-3 Notification to add California qualifier, May 3, 2013 Expires:

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 workers may be in the area during application. For any requirement specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval (REI). The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

No REI is required as this product is soil incorporated, and the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PRODUCT INFORMATION

T-22G Biological Fungicide is a preventative biological fungicide for control of soilborne plant pathogens and plant root diseases. The active ingredient is a microbe, *Trichoderma harzianum* Rifai strain T-22, which when applied as an inoculant to soil or planting mixes, grows onto plant roots as they develop and provides protection against plant root pathogens such as *Pythium, Rhizoctonia, Fusarium, Cylindrocladium* and *Thielaviopsis*.

T-22G Biological Fungicide can be used in combination with or in rotation with other fungicides, insecticides, miticides, fertilizers or micronutrients in accordance with the more restrictive of label limitations and precautions.

Do not exceed label dosage rates. This product cannot be used with any product containing a label prohibition against such mixing. This product is not compatible with chemicals that contain the following active ingredients: imazilil, propicanazole, tebuconazole, and triflumizole. Do not apply T-22G Biological Fungicide immediately before these pesticides are used. Where early season seed rot and seedling diseases are expected, use chemically treated seed or other appropriate measures for stand establishment and T-22G Biological Fungicide for root disease control.

Note: T-22G Biological Fungicide contains live spores of a microbe that must be used prior to disease onset. T-22G Biological Fungicide becomes active in soil or on plants when temperatures are above 50°F and is not effective while temperatures remain cold. T-22G Biological Fungicide can be applied to sterilized or fumigated soil but must be applied after sterilization or fumigation.

This biological fungicide is for use in soil applications (in soil furrow and potting soil) for all listed crops.

USE RESTRICTIONS

Do not apply this product as a broadcast application. Cover applied product with soil or otherwise incorporate it into soil.

For certain crop groupings, indicated below, this product is not for use in California.

DO NOT APPLY to sugarcane, pechay, rice, mushrooms, kiwi, tobacco, barley, oats, lemon, apple, and chickpea. Not for use on aquatic crops.

APPLICATION INSTRUCTIONS

MASTER LABEL Page 2 of 6

APPLY VIA GROUND APPLICATION ONLY.

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CROPS ON WHICH	I T-22G BIOLOGICAL FUNC	GICIDE MAY BE USED:
CROPS	USE	APPLICATION RATE of T- 22G BIOLOGICAL FUNGICIDE
Berries and Small Fruits: Blackberries, Blueberries, Currants, Elderberries, Gooseberries, Huckleberries, Loganberries, Raspberries, Strawberries, Grapes	In-furrow	2.5 – 6.0 lb / ½ acre
*Bulb Vegetables: Garlic, Leeks, Onions, Shallots	In-furrow	2.5 – 6.0 lb / ½ acre
*Cereal Grains: Buckwheat, Corn (grain, sweet corn, popcorn, high oil)	In-furrow	2.5 – 6.0 lb / ½ acre
Citrus Fruits: Citrus Hybrids, Grapefruit, Kumquat, Limes, Oranges, Pummelos	In-furrow	2.5 – 6.0 lb / ½ acre
*Cucurbit Vegetables: Cucumbers, Melons (i.e., Chinese waxgourd, Citron melon, Muskmelons, or Watermelon), Gourds Pumpkins, Squash	In-furrow	2.5 – 6.0 lb / ½ acre
Flowers, Bedding Plants, and Ornamentals	In-furrow Greenhouse planting mix Nursery planting mix Nursery bed application	$2.5 - 6.0 \text{ lb} / \frac{1}{2} \text{ acre}$ 1.0 - 3.0 lb / cubic yd soil mix 1.0 - 3.0 lb / cubic yd soil mix 0.5 - 7.5 lb / 1000 sq ft, incorporate with rake or tiller
Fruiting Vegetables: Eggplant, Sweet and Hot Peppers, Tomatillos, Tomatoes	In-furrow Greenhouse planting mix	2.5 - 6.0 lb / ½ acre 1.0 - 3.0 lb / cubic yd soil mix
Herbs and Spices	In-furrow Greenhouse planting mix	$2.5 - 6.0 \text{ lb} / \frac{1}{2} \text{ acre}$ 1.0 - 3.0 lb / cubic yd soil mix
Mints	In-furrow Greenhouse planting mix	$2.5 - 6.0 \text{ lb} / \frac{1}{2} \text{ acre}$ 1.0 - 3.0 lb / cubic yd soil mix
Leafy and Brassica (Cole) Leafy Vegetables: Arugula, Celery, Chervil, Endive, Fennel, Lettuce (head and leaf), Parsley, Radicchio, Rhubarb, Spinach, Swiss	In-furrow Greenhouse planting mix Nursery bed application	$2.5 - 6.0 \text{ lb} / \frac{1}{2} \text{ acre}$ 1.0 - 3.0 lb / cubic yd soil mix 0.5 - 7.5 lb / 1000 sq ft, incorporate with rake or tiller

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USE	AFTLICATION RATE of T- 22G BIOLOGICAL FUNGICIDE		
In-furrow Greenhouse planting mix Nursery bed application	$2.5 - 6.0 \text{ lb} / \frac{1}{2} \text{ acre}$ 1.0 - 3.0 lb / cubic yd soil mix 0.5 - 7.5 lb / 1000 sq ft, incorporate with rake or tiller		
In-furrow	2.5 – 6.0 lb / ½ acre		
In-furrow	2.5 – 6.0 lb / ½ acre		
In-furrow Greenhouse planting mix Nursery planting mix Trees and shrubs	$2.5 - 6.0 \text{ lb} / \frac{1}{2} \text{ acre}$ 1.0 - 3.0 lb / cubic yd soil mix 1.0 - 3.0 lb / cubic yd soil mix 0.2 - 8.0 oz / transplant hole and incorporate		
In-furrow Planting hole	1.0 – 3.0 lb / cubic yd soil mix 0.2 – 8.0 oz / transplant hole and incorporate		
In-furrow Shadehouse or outdoor nursery use Nursery planting mix Nursery bed application Trees and shrubs	$2.5 - 6.0 \text{ lb} / \frac{1}{2} \text{ acre}$ 1.0 - 3.0 lb / cubic yd soil mix, incorporate with rake or tiller 1.0 - 3.0 lb / cubic yd soil mix 0.5 - 7.5 lb / 1000 sq ft, incorporate with rake or tiller 0.2 - 8.0 oz / transplant hole and incorporate		
In-furrow Greenhouse planting mix Nursery planting mix Trees and shrubs	$2.5 - 6.0 \text{ lb} / \frac{1}{2} \text{ acre}$ 1.0 - 3.0 lb / cubic yd soil mix 1.0 - 3.0 lb / cubic yd soil mix 0.2 - 8.0 oz / transplant hole and incorporate		
	In-furrow Greenhouse planting mix Nursery bed application In-furrow Shadehouse or outdoor nursery use Nursery planting mix Nursery bed application Trees and shrubs In-furrow Greenhouse planting mix Nursery planting mix		

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	TIOT	
CROPS	USE	AT ~LICATION RATE of T-
		22G BIOLOGICAL
		FUNGICIDE
Tree Nuts: Almonds, Beech	In-furrow	$2.5 - 6.0 \text{ lb} / \frac{1}{2} \text{ acre}$
Nuts, Brazil Nuts, Butternuts,	Greenhouse planting mix	1.0 - 3.0 lb / cubic yd soil mix
Cashews, Chestnuts, Filberts,	Nursery planting mix	1.0 - 3.0 lb / cubic yd soil mix
Hickory Nuts, Macadamia	Trees	0.2 - 8.0 oz / transplant hole and
Nuts, Pecans, Pistachios,		incorporate
Walnuts		

* Not for use in California

IN-FURROW SOIL TREATMENT: Apply T-22G Biological Fungicide from a granular applicator at the rate of 2.5 - 6.0 pounds per $\frac{1}{2}$ acre. Apply granules using a metering device, such as a Gandy applicator or equivalent, mounted to deliver granules into the furrow just behind the furrow opener. Apply in furrow at seeding or to established crops as a side dress and incorporate into soil.

GREENHOUSE PLANTING MIX AMENDMENT: Mix T-22G Biological Fungicide with planting mixes at a rate of 1-3 pounds per cubic yard (loose) mix. Thoroughly incorporate T-22G Biological Fungicide into planting mixes during mix preparation or at pot filling.

NURSERY PLANTING MIX AMENDMENT AND NURSERY BED APPLICATION: For nursery planting mixes, apply T-22G Biological Fungicide at the rate of 1-3 pounds per cubic yard (loose) mix. For nursery beds, incorporate T-22G Biological Fungicide at a rate of 0.5-7.5 pounds per 1000 square feet of bed by raking or tilling. Application of irrigation water will help move T-22G Biological Fungicide into the soil. If soil is fumigated or steam sterilized, apply T-22G Biological Fungicide after treatment.

TREES AND SHRUBS: Apply T-22G Biological Fungicide to the planting hole at a rate of 0.2 - 8.0 ounces and incorporate into the planting soil or soil mix.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in a cool, dry place. Do not store near food or feed commodities. Do not store at temperatures above 75°F for prolonged periods. Product keeps best under refrigeration. Keep container tightly closed when not in use.

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

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container.

(10 lb unit packaged in polyethylene bag and placed into corrugated carton) Completely empty bag by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then offer for recycling if available, dispose of empty bag in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. If outer box is contaminated, dispose of in the same manner as required for the bag.

(40 lb bag, 500 lb bag, 1000 lb bag) Completely empty bag into application equipment. Then offer for recycling if available, dispose of empty bag in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

NOTICE TO BUYER AND SELLER: Seller warrants that this product on forms to the description on this label and is reasonably fit for the purposes stated on this label when used and stored in accordance with the directions for use. This warranty does not extend to use of this product contrary to label directions or under conditions not reasonably foreseeable by the Seller, and Buyer and User assume the risk of any such use. To the extent consistent with applicable law, Seller disclaims all other warranties, express or implied, including any warranty of fitness or merchantability. To the extent consistent with applicable law, Seller damages resulting from use or handling of this product, and Seller's sole liability and Buyer's and User's exclusive remedy shall be limited to refund of the purchase price.

This product is sold only for uses stated on its label.

Country: United States of America

[In Case of Emergency, Call CHEMTREC: (800) 424-9300]

[Manufactured in the United States of America (USA) by: BioWorks Inc. [Company Logo]]