

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

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

Carrie Daniels
Authorized Representative of
Novozymes Biologicals, Inc.
Exponent
1150 Connecticut Avenue, NW
Washington, DC 20036

RE: Product Name: Taenure Granular Bioinsecticide

Alternate Brand Name: Met52™ Granular Bioinsecticide

EPA Reg. No: 70127-8

Notification Dated: March 2, 2011 to convert label in booklet format

and make minor edit revisions as per PRN 98-10.

Dear Ms Daniels:

The Biopesticides and Pollution Prevention Division is in receipt of your application for Notification under Pesticides Registration Notice (PRN) 98-10 dated above. A preliminary screen of this request has been conducted for its applicability under PRN 98-10 and it has been determined that the action(s) requested falls within the scope of PRN 98-10. Our records have been duly noted, and the label submitted with this application has been stamped as "Notification Accepted" and will be placed accordingly in our records.

Questions concerning this action should be directed to Mary Paden (703) 308-0411 or email at paden.mary@epa.gov.

Sincerely,

Sheryl K. Reilly

Sheryl K. Reilly, Ph.D., Chief Microbial Pesticides Branch Biopesticides and Pollution Prevention Division (7511P)

JUN 09 2011

CONCURRENCES									
SYMBOL		7511CP	/						
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DATE		06/09/1	/						

EPA Form 1320-1A (1/90)

Printed on Recycled Paper

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EPA	Environmenta	alted States I Protection A agton, DC 20460	Agency	<u> </u>	Registrati _Amendme ☑ Other	
		Application	for Pesticide -			
1. Company/Product Number 70127-8			2. EPA Proc Sheryl Re	eilly		3. Proposed Classification
Company/Product (Nar Novozymes Biologica	ne) ils, Inc. / Taenure Gran	ular Bioinsecticide		·		None Restric
5. Name and Address of Ap Novozymes Biologicals, Inc 5400 Corporate Circle, Salem, Virginia 24153	•	ide)	6. Expedite product is sin EPA Reg. No	milar or identic	accordance with all in composition	FIFRA Section 3(c)(3)(b)(l), m and labeling to:
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		· · · · · · · · · · · · · · · · · · ·	Section II	·	<u>.</u>	· ·
Amendment - Explain to Resubmission in responsion Notification - Explain b	nse to Agency letter da	ted	"Me To	Final printed labels in response to Agency letter dated XX-XX-XX "Me Too" Application Other - Explain below. Date: 06/06/20//		
Explanation: Use additional Submission of label notifica	page(s) If necessary. (tion to convert the labo	(For section I and S el to a booklet forn	nat and make minor ty	pographical re	· ·	
			Section III			
Material This Product Will Child-Resistant Packaging Yes* No Certification must be submitted	Unit Packaged In: Unit Packaging Yes No If "Yes" Unit Packaging wgt.	No. per . Container	Water Soluble Packe Yes No If "Yes" Package wgt.	No. per Container	2. Type of C	nal ette ss
3. Location of Net Contents Label	Information Container	4. Size(s) Retail	Container	5.	Location of Lab	
6. Manner in Which Label is	Affixed to Product	Lithograph Paper glued Stendied	Other _	Stickered onto	o bag	
			Section IV			
Contact Point (Complete)	items directly below for	identification of inc	dividual to be contacted	d, if necessary		
Name Carrie	Daniels	Title	Authorized Repr	esentative	Telep	phone No. (Include Area Code) 202-772-4916
i certify that the stateme acknowledge/ha\any k under applicable law:	ints I have made on this nowingly false or misle:	Certification is form and all attacted ading statement manager is a control of the control of th	hments thereto are tru	e, accurate ar e or imprison	ment or both o	(Stamped)
2. Signature BY:	m Tho	3. Ti	gulatory Affairs Man		mes Biologicals.	
4. Typed Name: Dean	Thome	0.00	ate. 7 6010ay 20, 20			G () () () () () () () () () (

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E^xponent°

Exponent
1150 Connecticut Avenue, NW
Suite 1100
Washington, DC 20036

telephone 202-772-4900 facsimile 202-772-4979 www.exponent.com

March 2, 2011

Sheryl Reilly, Ph.D.
Biopesticides and Pollution Prevention Division (7504P)
Office of Pesticide Programs
Document Processing Desk (NOTIF)
One Potomac Yard, Room S-4900
2777 S. Crystal Drive
Arlington, VA 22202-4501

Subject:

Submission of Label Notification for Taenure Granular Bioinsecticide (EPA Reg. No. 70127-8)

Dear Dr. Reilly:

On behalf of Novozymes Biologicals, Inc. (Novozymes, EPA Company Number 70127, 5400 Corporate Circle, Salem, VA 24153), Exponent, Inc. is submitting a notification pursuant to PR Notice 98-10 to convert the label to a booklet format and make minor typographical revisions for the EPA registered product Taenure Granular Bioinsecticide (EPA Reg. No. 70127-8). The following documents are enclosed in support of this action:

- Application for Pesticide Notification, EPA 8570-1 Form;
- Label (2 copies, one with tracked changes); and
- Final Printed Label (2 copies).

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 of 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.

If you have any questions, please contact me via phone at (202) 772-4916 or via email at cdaniels@exponent.com.

Sincerely,

Carrie Daniels

Authorized Representative of Novozymes Biologicals, Inc.

Enclosures

Dean Thome, Novozymes Biologicals, Inc.

(Front Panel)

TAENURE GRANULAR BIOINSECTICIDE [ABN: Met52™ GRANULAR BIOINSECTICIDE]

	% w/w
ACTIVE INGREDIENT – Metarhizium anisopliae Strain F52*	2.0%
OTHER INGREDIENTS	<u>98.0%</u>
Total	100.0%

* Contains 9.0 x 108 Colony Forming Units (CFU)/gram.

CAUTION

Date: 06/04/2011

PRECAUTIONARY STATEMEN TS lewer: How follows

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Causes moderate eye irritation. Harmful if inhaled, absorbed through skin, or swallowed. Avoid contact with skin, eyes, or clothing. Avoid breathing dust. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

[REFER TO DIRECTIONS FOR USE WITHIN THIS BOOKLET]

	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.
IF INHALED:	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
IF ON SKIN OR CLOTHING:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 – 20 minutes. Call a poison control center or doctor for treatment advice.
IF SWALLOWED:	Call a poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Dounce induce vomiting unless told to do so by a poison control center or doctors Do not give anything by mouth to an unconscious person.
	HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

For emergency information on this pesticide product (including health concerns, inedical emergencies, or pesticide incidents) call the National Pesticide Information Center at 1-800-858-7378 6:30 a.m. - 4:30 p.m. Pacific Time (PT), seven days a week. During other times call the poison control center at 1-800-222-1222.

(Reviewer Notes: The "not for sale" date is to serve as the batch code.)

Not for Sale or Use after (insert date)

Net Contents: [3 Lbs.][5 Lbs.][22 Lbs.][25 Lbs.][bag][XX kg.]

Produced for: Novozymes Biologicals Inc. 5400 Corporate Circle Salem, VA 24153, USA [1-888-744-5662] EPA Establishment Number: [070127-VA-001]

[085238-CAN-001]

EPA Registration Number: 70127-8

Made in [USA] [Canada]

[Novozymes Rethink Tomorrow[[logo]

(End Front Panel)

PERSONAL PROTECTIVE EQUIPMENT

Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.

Mixer/loaders, applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes and socks
- Protective evewear
- Dust-mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C) or a NIOSH approved respirator with any N-95, R-95, P-95 or HE filter. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.

Follow manufacturer's instructions 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							
0	Users should remove clothing immediately if pesticide gets inside, then wash thoroughly and put on clean clothing.							
	Remove personal protection equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.							

ENVIRONMENTAL HAZARDS

For terrestrial uses. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. This product is approved for residential (urban and suburban) outdoor terrestrial non-food uses. Do not use near endangered insect habitat. Do not contaminate water when disposing of equipment washwater or rinsate.

PHYSICAL OR CHEMICAL HAZARDS

For spill, leak, fire, exposure, or accident call CHEMTREC at 1-800-424-9300, day or night.



1.

DIRECTIONS FOR USE READ THE LABEL BEFORE USING

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

For uses that are <u>soil incorporated mechanically</u>, there is a <u>0 hour Restricted Entry Interval (REI)</u> the Worker Protection Standard allows workers to enter the treated area if there will be no contact with anything that has been treated. For <u>all other uses</u>, do not enter or allow worker entry into treated areas during the REI of four hours.

PPE required for early entry to treated areas requiring a REI that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water are:

- Coveralls
- Waterproof gloves
- Shoes plus socks
- Protective eyewear
- Dust-mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C) or a NIOSH approved respirator with any N-95, R-95, P-95 or HE filter.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses.

Keep unprotected persons out of treated areas until sprays have dried.

GENERAL

Taenure Granular Bioinsecticide is composed of spores of the insect pathogenic fungus Metarhizium anisopliae Strain F52 on a grain matrix. Once the product is incorporated into the growing medium, insects that come into contact with the fungus will become infected. The spores of Metarhizium anisopliae attach to the surface of the insect, germinate, and begin to grow. It will penetrate the exoskeleton of the insect and grow very rapidly inside the insect, causing the insect to die. It usually takes 3 to 5 days once the insect is exposed for death to occur. As insects are infected, other insects that come into contact with them may also become infected. Depending on cultural practices, it is not uncommon for control to last up to nine months.

APPLICATION INSTRUCTIONS

Apply Taenure Granular Bioinsecticide prior to or during planting by thoroughly mixing the product into the growing medium, ensuring even distribution. Agitate the product during application to shake some fungal growth free from grains and into the surrounding growing medium. Apply at a rate of 1.5 to 3.0 lbs. of product per cubic yard of growing medium (or 25 to 50 grams per cubic foot of growing medium). Use higher label rates when larval pressure is expected to be high.

This product is not for use on agricultural crops which bear fruit or can be used as a food or feed commodity.

Do not mix fungicides in growth medium containing Taenure Granular Bioinsecticide. Keep the plants above 60°F and maintain good drainage. Taenure Granular Bioinsecticide is grown on cereal grains that will decompose in the growing media. Pests likely to be attracted by grains, such as rodents, must be controlled prior to use of this product.

INSECTS CONTROLLED

Root weevils

Thrip pupae

Ticks

SITES FOR USE

This product is approved for greenhouse and residential (urban and suburban) outdoor terrestrial non-food uses. Do not use near endangered insect habitat.

ORNAMENTALS

Do not use treated plants for food or animal feed.

Abutilon Buddleia Crocus Ficus Achillea Bulbs Crossandra Fittonia Actinopteris Buttercup Croton Foliage Plants African Violet **Butterfly Bush** Crown of Thorns Foxglove Ageratum **Cultivated Greens** Freesia Cactus Aglaonema Caladium **Cut Florist Greens Fuchsia** Calathea Cut Flowers Gaillardia Ajuga Allamanda Calceolaria Cuttings Gardenia Allium (ornamental) Cyclamen Calendula Gaultherium **Daffodils** Alocasia Calla Lilv Gazania Alyssum Calliandra Dahlia Geranium **Amaryllis** Calluna Daisy Gerbera **Anemone** Campanula Daylily Geum Annuals, Ornamental Candy-Tuft Delphinium Gladiolus Carnation **Dianthus** Anthurium Gloxinia Aphelandra Celosia Dieffenbachia Grape (non-bearing) Aralia Centaurea Dizygotheca Grass, Ornamerital Artemisia Cerastium Dracena **Ground Covers** Aster Chinese Evergreen **Dusty Miller** Gynura Azalea Chrysanthemum Easter Lily Gypsophila Baby's Breath Echeveria Cineraria Hedera^c Bachelors Button Cissus **Episcia** Hibiscus (ornamental) **Bedding Plants** Erica Hollyhock Clematis Beefsteak Plant Cockscomb Euonymus Honevsuckle Begonia Coleus Euphorbia Hosta (Plantain Lily) Bird of Paradise Columbine Exacum Hoya (Wax Plant) Bleeding Heart Coral Bells False Dragonhead Hyacinth Bougainvillea Coreopsis Fatsia Hydrangea **Bromeliad** Cosmos **Ferns** Ice Plant

Impatiens Nigella Portulaca Sinningia Nursery Crops (non-Potentilla Snapdragon Iris Ivy, Algerian bearing) **Pothos** Spathiphyllum lvy, English Ophiopogon Potted Flowering Plants Stachvs Jasmine (ornamental) Orchid Prayer Plant Statice Jessamine Ornithogalum Primrose Stock Osmanthus Pyracantha Kalanchoe Stokesia Lantana Oxalis Ranunculus Strawflower Pachysandra Rhododendron Sweet Pea Liatris Pansy Rose Sweet William Lily Lily of the Nile Pelargonium Rubber Plant Syngonium Tulip Liriope Peony Rudbeckia Lobelia Peperomia Saintpaulia Verbena Loosestrile Perwinkle Salvia Veronica Lupine Petunia Sansevieria Vinca Manvilla Philodendron Saxifraga Violet Maple, Flowering Phlox Schefflera Virginia Creeper Marigold Photinia Scilla Wall Flower Monarda Pilea Sedum Wandering Jew Mondo Grass **Pinks** Seed Beds Wisteria Morea, Yellow Pittosporum Seedling Plants Yarrow Yucca Myrtle **Podocarpus** Sempervivum **Narcissus** Poinsettia Senecio Zinnia Nasturtium **Shrubs** Poppy

SHRUBS

Do not use treated plants for food or animal feed.

Abelia	Cordyline	Hydrangea	Podocarpus
Andromeda	Crape Myrtle	Indian Hawthorn	Poinciana
Arborvitae	Cotoneaster	Juniper	Privet
Aucuba	Cuttings	Laurel	Pyracantha
Azalea	Daphne	Leucothoe	Quince, (non-bearing
Bamboo	Deutzia	Ligustrum	Ornamental)
Barberry	Elderberry	Lilac	Rhamnus
Beauty Bush	Escallonia	Lippia	Rhododendron
Bedding Plants	Eugenia	Manzanita	Rockrose
Blueberry, Ornamental	Euonymus	Mock Orange	Rose
Bog Rosemary	Fig (non-bearing)	Nandina	Santolina
Bottlebrush	Firethorn	Nursery Crops (non-	Snowberry
Boxwood	Forsythia	bearing)	Spicebrush
Bridal Wreath	Fuchsia	Oleander	Spirae
Broom	Guava (non-bearing)	Oregon Grape (non-	Viburnum
Buckthorn	Hawthorn	bearing)	Wax Myrtle
Camelllia	Heath	Osmanthus	Weigla
Caranaga Carob	Heather	Pachistima	Yew
Carex	Hibiscus (ornamental)	Pachysandra	(()
Ceanothus	Hickory	Photinia	
Cleyera	Holly	Pittosporum	
•	•	•	

SHADE AND FOREST TREE SEEDLINGS

This product is approved for residential (urban and suburban) outdoor uses on seedlings. Do not use near endangered insect habitat.

Acacia	Ash	Basswood	Beech	
Acacia	71011		D00011	•
Alder	Aspen	Bedding Plants	Birch	

Bougainvillea
Buckeye
Butternut
Catalpa
Cedar
Chamaecyparis
Cherry, Wild (nonbearing)

Cedar
Chamaecyparis
Cherry, Wild (nonbearing)
Chestnut (non-bearing
ornamental)
Conifers
Cottonwood
Crabapple
Cuttings
Cypress
Dogwood

Douglas Fir Elder Elm Fir

Forest Seedlings
Forest Trees
Gingko
Gum
Hackberry
Hawthorn
Hemlock
Hickory
Holly
Hornbeam
Horse Chestnut

Ironwood

Juneberry
Juniper
Larch
Linden
Locust
Magnolia
Maple
Mimosa
Mulberry
Myrtle
Nursery Crops
Oak

PawPaw (non-bearing

Palm

Pine

ornamental)

Privet
Quince (non-bearing ornamental)
Redbud
Redwood
Sassafras
Sourwood
Spruce
Sumac
Sycamore
Tamarack
Tulip Tree
Willow
Yellowwood

Poplar

Applicators other than homeowners:

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE

Store Taenure Granular Bioinsecticide in its original container in a cool, dry, locked place out of reach of children and out of direct sunlight. Do not use or store near heat or open flame.

PESTICIDE DISPOSAL

To avoid wastes, 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 bag into application equipment then offer for recycling if available, or dispose of empty bag in a sanitary landfill or by incineration. Do not burn, unless allowed by state and local ordinances.



Homeowners:

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE

Store Taenure Granular Bioinsecticide in its original container in a cool, dry, locked place out of reach of children and out of direct sunlight. Do not use or store near heat or open flame.

PESTICIDE DISPOSAL AND CONTAINER HANDLING

Nonrefillable container. Do not reuse or refill container.

If empty:

Place container in trash, or offer for recycling, if available.

If partly filled:

Call your local solid waste agency or 1-800-CLEANUP for disposal intructions. Never place unused product down any indoor or outdoor drain.

WARRANTY

The Directions for Use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully.

Novozymes Biologicals warrants that at the time of the first sale of this product it conforms to the chemical description on the label and when used according to the label directions under normal growing conditions is reasonably fit for the purposes referred to above. To the extent consistent with applicable law, buyers/users of this product assume full risk for any use contrary to the specified directions. If this product does not perform as warranted above, customer's sole remedy for breach of warranty, to the extent consistent with applicable law, shall be replacement of the product or refund of the purchase price paid, at the option of Novozymes Biologicals.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, EXCEPT AS PROVIDED ELSEWHERE IN WRITING CONTAINING AN EXPRESS REFERENCE TO THIS WARRANTY AND LIMITATION OF DAMAGES, SELLER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OR GUARANTY, INCLUDING ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR OF MERCHANTABILITY, AND NO AGENT OF SELLER IS AUTHORIZED TO DO SO.

[8Met52 is a registered trademark of Novozymes A/S/ 62010 Novozymes. All rights reserved.]



(Begin Back Panel)

going for treatment.

TAENURE GRANULAR BIOINSECTICIDE [ABN: Met52™ GRANULAR BIOINSECTICIDE]

	% w/w
ACTIVE INGREDIENT – Metarhizium anisopliae Strain F52*	2.0%
OTHER INGREDIENTS	<u>98.0%</u>
Total	100.0%
A Containe C. C. v. 408 Colony Formito a Unite (OFI) Veneral	

Contains 9.0 x 10⁸ Colony Forming Units (CFU)/gram.

KEEP OUT OF REACH OF CHILDREN CAUTION

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Causes moderate eye irritation. Harmful if inhaled, absorbed through skin, or swallowed. Avoid contact with skin, eyes, or clothing. Avoid breathing dust. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

[REFER TO DIRECTIONS FOR USE WITHIN THIS BOOKLET]

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.					
IF INHALED:	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.					
IF ON SKIN OR CLOTHING:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 – 20 minutes. Call a poison control center or doctor for treatment advice.					
IF SWALLOWED:	Call a poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.					
HOT LINE NUMBER						

Have the product container or label with you when calling a poison control center or dector or

For emergency information on this pesticide product (including health concerns, medical emergencies, or pesticide incidents) call the National Pesticide Information Center at 1-800-858-7378 6:30 a.m. - 4:30 p.m. Pacific Time (PT), seven days a week. During other times call the poison control center at 1-800-222-1222.

Net Contents: [3 Lbs.][5 Lbs.][22 Lbs.][25 Lbs.][bag][XX kg.]

Produced for: Novozymes Biologicals Inc. 5400 Corporate Circle Salem, VA 24153, USA [1-888-744-5662]

EPA Establishment Number: [070127-VA-001]

[085238-CAN-001]

EPA Registration Number: 70127-8

Made in [USA] [Canada]

Applicators other than homeowners:

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE

Store Taenure Granular Bioinsecticide in its original container in a cool, dry, locked place out of reach of children and out of direct sunlight. Do not use or store near heat or open flame.

PESTICIDE DISPOSAL

To avoid wastes, 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 bag into application equipment then offer for recycling if available, or dispose of empty bag in a sanitary landfill or by incineration. Do not burn, unless allowed by state and local ordinances.

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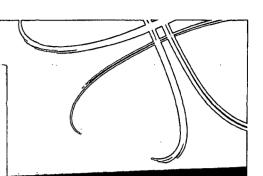
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[Novozymes Rethink Tomorrow [[logo]

(End Back Panel)





bioinsecticide

% w/w

ACTIVE INGREDIENT

2.0% Metarhizium anisopliae Strain F52*

OTHER INGREDIENTS

98.0%

* Contains 9.0 x 108 Colony Forming Units (CFU)/gram.

Notification Accepted

FIRST AID 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

Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably IF INHALED:

IF IN EYES:

mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

control center or doctor for treatment advice.

Take off contaminated clothing. Rinse skin immediately with IF ON SKIN OR plenty of water for 15 - 20 minutes. Call a poison control **CLOTHING:** center or doctor for treatment advice.

Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by SWALLOWED: a poison control center or doctor. Do not give anything by mouth to an unconscious person.

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Net Contents: ີ 22 ີ່ lb (10 kg)

KEEP OUT OF REACH OF CHILDREN CAUTION

PRECAUTIONARY STATEMENTS

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Causes moderate eye irritation. Harmful if inhaled, absorbed through skin, or swallowed. Avoid contact with skin, eyes, or clothing. Avoid breathing dust. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

REFER TO DIRECTIONS OF USE WITHIN THIS BOOKLET

novozymes

Not for Sale or Use after

Produced for Novozymes Biologicals Inc. 5400 Corporate Circle Salem, VA 24153, USA 1-888-744-5662

EPA Establishment Number: 085238-CAN-001 EPA Registration Number: 70127-8

PERSONAL PROTECTIVE EQUIPMENT

Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.

Mixer/loaders, applicators, and other handlers must wear:

- Long-sleeved shirt and long pants
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- · Shoes and socks
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Follow manufacturer's instructions 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

- Users should remove clothing immediately if pesticide gets inside, then wash thoroughly and put on clean clothing
- Remove personal protection equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing

ENVIRONMENTAL HAZARDS

For terrestrial uses. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. This product is approved for residential (urban and suburban) outdoor terrestrial non-food uses. Do not use near endangered insect habitat. Do not contaminate water when disposing of equipment washwater or rinsate.

PHYSICAL OR CHEMICAL HAZARDS

For spill, leak, fire, exposure, or accident call CHEMTREC at 1-800-424-9300, day or night.

DIRECTIONS FOR USE READ THE LABEL BEFORE USING

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

For uses that are <u>soil incorporated mechanically</u>, there is a <u>0 hour</u> Restricted Entry Interval (REI) — the Worker Protection Standard allows workers to enter the treated area if there will be no contact with anything that has been treated. For <u>all other uses</u>, do not enter or allow worker entry into treated areas during the REI of <u>4 hours</u>.

PPE required for early entry to treated areas requiring an REI that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water are:

- Coveralls
- Waterproof gloves
- Shoes and socks
- Protective eyewear
- Dust-mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C) or a NIOSH approved respirator with any N-95, R-95, P-95 or HE filter

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NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Keep unprotected persons out of treated areas until sprays have dried.

GENERAL

Met52® Granular Bioinsecticide is composed of spores of the insect pathogenic fungus *Metarhizium anisopliae* Strain F52 on a grain matrix. Once the product is incorporated into the growing medium, insects that come into contact with the fungus will become infected. The spores of *Metarhizium anisopliae* attach to the surface of the insect, germinate, and begin to grow. It will penetrate the exoskeleton of the insect and grow very rapidly inside the insect, causing the insect to die. It usually takes 3 to 5 days once the insect is exposed for death to occur. As insects are infected, other insects that come into contact with them may also become infected. Depending on cultural practices, it is not uncommon for control to last up to nine months.

APPLICATION INSTRUCTIONS

Apply Met52 Granular Bioinsecticide prior to or during planting by thoroughly mixing the product into the growing medium, ensuring even distribution. Agitate the product during application to shake some fungal growth free from grains and into the surrounding growing medium. Apply at a rate of 1.5 to 3.0 lbs of product per cubic yard of growing medium (or 25 to 50 grams per cubic foot of growing medium). Use higher label rates when larval pressure is expected to be high.

This product is not for use on agricultural crops that bear fruit or can be used as a food or feed commodity.

Do not mix fungicides in growth medium containing Met52 Granular Bioinsecticide. Keep the plants above 60 °F and maintain good drainage. Met52 Granular Bioinsecticide is grown on cereal grains that will decompose in the growing medium. Pests likely to be attracted by grains, such as rodents, must be controlled prior to use of this product.

INSECTS CONTROLLED

- Root weevils
- Ticks
- Thrip pupae

SITES FOR USE

This product is approved for greenhouse and residential (urban and suburban) outdoor terrestrial non-food uses. Do not use near endangered insect habitat.



ORNAMENTALS

Do not use treated plants for food or animal feed.

Abutilon	Candy-Tuft	False Dragonhead	Lily of the Nile	Primrose
Achillea	Carnation	Fatsia	Liriope	Pyracantha
Actinopteris	Celosia	Ferns	Lobelia	Ranunculus
African Violet	Centaurea	Ficus	Loosestrile	Rhododendron
Ageratum	Cerastium	Fittonia	Lupine	Rose
Aglaonema	Chinese Evergreen	Foliage Plants	Manvilla	Rubber Plant
Ajuga	Chrysanthemum	Foxglove	Maple, Flowering	Rudbeckia
Allamanda	Cineraria	Freesia	Marigold	Saintpaulia
Allium (ornamental)	Cissus	Fuchsia	Monarda	Salvia
Alocasia	Clematis	Gaillardia	Mondo Grass	Sansevieria
Alyssum	Cockscomb	Gardenia	Morea, Yellow	Saxifraga
Amaryllis	Coleus	Gaultherium	Myrtle	Schefflera
Anemone	Columbine	Gazania	Narcissus	Scilla
Annuals (ornamental)	Coral Bells	Geranium	Nasturtium	Sedum
Anthurium	Coreopsis	Gerbera	Nigella	Seed Beds
Aphelandra	Cosmos	Geum	Nursery Crops (non-bearing)	Seedling Plants
Aralia	Crocus	Gladiolus	Ophiopogon	Sempervivum
Artemisia	Crossandra	Gloxinia	Orchid	Senecio
Aster	Croton	Grape (non-bearing)	Ornithogalum	Shrubs
Azalea	Crown of Thorns	Grass (ornamental)	Osmanthus	Sinningia
Baby's Breath	Cultivated Greens	Ground Covers	Oxalis	Snapdragon
Bachelors Button	Cut Florist Greens	Gynura	Pachysandra	Spathiphyllum
Bedding Plants	Cut Flowers	Gypsophila	Pansy	Stachys
Beefsteak Plant	Cuttings	Hedera	Pelargonium	Statice
Begonia	Cyclamen	Hibiscus (ornamental)	Peony	Stock
Bird of Paradise	Daffodils	Hollyhock	Peperomia	Stokesia
Bleeding Heart	Dahlia	Honeysuckle	Perwinkle	Strawflower
Bougainvillea	Daisy	Hosta (Plantain Lily)	Petunia	Sweet Pea
Bromeliad	Daylily	Hoya (Wax Plant)	Philodendron	Sweet William
Buddleia	Delphinium	Hyacinth	Phlox	Syngonium
Bulbs	Dianthus	Hydrangea	Photinia	Tulip
Buttercup	Dieffenbachia	Ice Plant	Pilea	Verbena
Butterfly Bush	Dizygotheca	Impatiens	Pinks	Veronica
Cactus	Dracena	lris	Pittosporum	Vinca ' ، '
Caladium	Dusty Miller	lvy, Algerian	Podocarpus	Violet '
Calathea	Easter Lily	tvy, English	Poinsettia	Virginia Creeper
Calceolaria	Echeveria	Jasmine (ornamental)	Poppy	: Wall Flower
Calendula	Episcia	Jessamine	Portulaca	Wandering bew
Calla Lily	Erica	Kalanchoe		(Wisteria
Calliandra	Euonymus	Lantana	Pothos	Yarrow
Calluna	Euphorbia	Liatris	Potted Flowering Plants	Yucca
Campanula	Exacum	Lily	Prayer Plant	Zinnia
Campanala	EXOCUIT	-n _j	riagor riune	2 C + L 1

SHRUBS

Do not use treated plants for food or animal feed.

Abelia	Camellia	Firethorn	Lilac	Poinciana
Andromeda	Caranaga Carob	Forsythia	Lippia	Privet
Arborvitae	Carex	Fuchsia	Manzanita	Pyracantha
Aucuba	Ceanothus	Guava (non-bearing)	Mock Orange	Quince, (non-bearing
Azalea	Cleyera	Hawthorn	Nandina	ornamental)
Bamboo	Cordyline	Heath	Nursery Crops	Rhamnus
Barberry	Crape Myrtle	Heather	(non-bearing)	Rhododendron
Beauty Bush	Cotoneaster	Hibiscus (ornamental)	Oleander	Rockrose
Bedding Plants	Cuttings	Hickory	Oregon Grape	Rose
Blueberry, Ornamental	Daphne	Holly	(non-bearing)	Santolina
Bog Rosemary	Deutzia	Hydrangea	Osmanthus	Snowberry
Bottlebrush	Elderberry	Indian Hawthorn	Pachistima	Spicebrush
Boxwood	Escallonia	Juniper	Pachysandra	Spirea
Bridal Wreath	Eugenia	Laurel	Photinia	Viburnum
Broom	Euonymus	Leucothoe	Pittosporum	Wax Myrtle
Buckthorn	Fig (non-bearing)	Ligustrum	Podocarpus	Weigela
	3 .	-	·	Yew

SHADE AND FOREST TREE SEEDLINGS

This product is approved for residential (urban and suburban) outdoor uses on seedlings. Do not use near endangered insect habitat.

Acacia	Cherry, Wild	Forest Seedlings	Larch	Poplar
Alder	(non-bearing)	Forest Trees	Linden	Privet
Ash	Chestnut (non-bearing	Gingko	Locust	Quince (non-bearing
Aspen	ornamental)	Gum	Magnolia	ornamental)
Basswood	Conifers	Hackberry	Maple	Redbud
Bedding Plants	Cottonwood	Hawthorn	Mimosa	Redwood
Beech	Crabapple	Hemlock	Mulberry	Sassafras
Birch	Cuttings	Hickory	Myrtle	Sourwood
Bougainvillea	Cypress	Holly	Nursery Crops	Spruce
Buckeye	Dogwood	Hornbeam	Oak	Sumać , , , , '
Butternut	Douglas Fir	Horse Chestnut	Palm	Sycamore
Catalpa	Elder	Ironwood	PawPaw (non-bearing	Tamarack
Cedar	Elm	Juneberry	ornamental) ،	cccc Tulip Tree
Chamaecyparis	Fir	Juniper	Pine '	· Willow · · · · ·
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Applicators other than homeowners:

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE

Store Met52® Granular Bioinsecticide in its original container in a cool, dry, locked place out of reach of children and out of direct sunlight. Do not use or store near heat or open flame.

PESTICIDE DISPOSAL

To avoid wastes, 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 bag into application equipment then offer for recycling if available, or dispose of empty bag in a sanitary landfill or by incineration. Do not burn, unless allowed by state and local ordinances.

Homeowners:

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE

Store Met52 Granular Bioinsecticide in its original container in a cool, dry, locked place out of reach of children and out of direct sunlight. Do not use or store near heat or open flame.

PESTICIDE DISPOSAL AND CONTAINER HANDLING

Nonrefillable container. Do not reuse or refill container.

If empty:

Place container in trash, or offer for recycling, if available.

If partly filled:

Call your local solid waste agency for disposal intructions. Never place unused product down any indoor or outdoor drain.

WARRANTY

The Directions for Use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully.

Novozymes Biologicals warrants that at the time of the first sale of this product it conforms to the chemical description on the label and when used according to the label directions under normal growing conditions is reasonably fit for the purposes referred to above. To the extent consistent with applicable law, buyers/users of this product assume full risk for any use contrary to the specified directions. If this product does not perform as warranted above, customer's sole remedy for breach of warranty, to the extent consistent with applicable law, shall be replacement of the product or refund of the purchase price paid, at the option of Novozymes Biologicals.

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