



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

AUG 14 2002

Mr. Michael C. Zucker  
FMC Corporation, Agricultural Products Group  
1735 Market Street  
Philadelphia, PA 19103

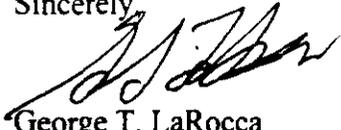
Subject: Label Amendment Adding Home Vegetable Garden Use  
Talstar® 0.1 Lawn Granular Insecticide  
EPA Reg. No. 279-3173  
Your Submission Dated June 21, 2002, as Amended

Dear Mr. Zucker:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable subject to the comments listed below. Two (2) copies of the finished labeling must be submitted prior to releasing the product for shipment. A stamped copy of the label is enclosed for your records.

1. Delete the claim near the top of the right-hand column on page 5 under "Option II" that this product is "specially designed to be used in very low concentrations", since this may be construed as an implied safety claim. You deleted this claim as previously requested from other sections of the label, but you appear to have overlooked this occurrence.
2. Under "Home Vegetable Gardens" (in the main body of the label and in Option II), include the pounds of product to be applied per 500 sq. ft. in parentheses after the rate in "cups" per 500 sq. ft. The revised instructions should read: "Use 5 cups (1.2 lbs.) of product for a 500 sq. ft. area."
3. In the "Spreader Tips" tables under Option I, include instructions for using spreaders other than Scotts' spreaders as you have done in the spreader tables for Home Vegetable Gardens: "When using other spreaders, calibrate the spreader settings based on the manufacturer's recommendations."

If you have any questions regarding this action, please contact Susan Stanton of my team at (703) 305-5218.

Sincerely,  
  
George T. LaRocca  
Product Manager (13)  
Insecticide Branch  
Registration Division (7505C)

Enclosure

1723

**ACCEPTED  
with COMMENTS  
In EPA Letter Dated:  
AUG 14 2002**



**0.1 LAWN GRANULAR INSECTICIDE**

For Residential Lawn, Home Perimeter, Ornamental & Flower Gardens and Home Vegetable Garden Use Only

EPA Reg. No. 279-3173                      EPA Est. 279-

<b>Active Ingredient:</b>	<b>By Wt.</b>
Bifenthrin* .....	.01%
Inert Ingredients .....	99.9%
	100.0%

\*Cis isomers 97% minimum, trans isomers 3% maximum.  
U.S. Patent No. 4,238,505

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

See other panels for additional precautionary information.  
or  
See additional precautionary statements on back of bag.  
or  
See (back panel booklet, back panel) for additional precautionary statements.

**[Satisfaction Guaranteed or Your Money  
Back]**



FMC Corporation  
Agricultural Products Group  
Philadelphia PA 19103

**Net Contents**

**Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under EPA Reg. No.  
279-3173**

**[Insert photo/illustration]**

<b>FIRST AID [ICON]</b>	
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<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>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>HOTLINE NUMBER</b>	
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)-331-3148 for Emergency Assistance.	
<b>NOTE TO PHYSICIAN</b>	
This product is a pyrethroid. If large amounts have been ingested, milk, cream and other digestible fats and oils may increase absorption and so should be avoided.	
For Information Regarding the Use of this Product Call 1-800-321-1FMC (1362).	

**PRECAUTIONARY STATEMENTS [ICON]  
Hazards to Humans (and Domestic Animals)**

**Caution**  
Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

**Environmental Hazards**  
This pesticide is extremely toxic to fish and aquatic invertebrates. Do not apply directly to water. Do not contaminate water when disposing of equipment washwaters or rinsate.

**DIRECTIONS FOR USE**  
It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

**STORAGE AND DISPOSAL [ICON]**  
**Prohibitions:** Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use replace lids and close tightly. For bags after partial use, reseal open bag by folding top down and securing

**In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Confine spills. Call FMC: (800) 331-3148.**

**Pesticide Container Disposal:**  
**If empty:** Do not reuse this container. Place in trash or offer for recycling if available.  
**If partly filled:** Call your local solid waste agency or 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain.

Talstar® 0.1 Lawn Granular Insecticide is a high-performance product and is:

- Virtually Odor-free
- Fast Acting
- Easy-to-Use
- Broad Spectrum
- Kills Ants, Fleas, Spiders, Ticks & Other Insects
- Not harmful to grasses
- For use on lawns, home perimeter, ornamental & flower gardens.
- For Outdoor Multi-insect control.
- Kills Lawn & Garden pests/insects/bugs.
- Kills/controls pests/insects/bugs in lawns & landscapes.

Talstar is designed for use as a ready-to-use granular insecticide to control various insects and spiders on lawns, home perimeter, ornamental & flower gardens. Please read the following "Directions for Use" carefully and fully before applying this product.

In New York State, this product may NOT be applied to any grass or turf area (lawns) within 100 feet of a water body (lake, pond, river, stream, wetland, or drainage ditch).

In New York State, do make a single repeat application of Talstar 0.1 Lawn Granular Insecticide if there are signs of renewed insect activity, but not sooner than two weeks after the first application.

**LAWN, HOME PERIMETER, ORNAMENTAL & FLOWER GARDENS**

**Surface Feeding Insects**

Use Talstar for the control of ants, including Carpenter, Red Harvester, Odorous Pyramid, Pharaoh (Sugar) and Fire Ants\*, Foraging Fire Ants, Armyworms (including Fall Armyworms), Billbug (including Bluegrass Billbug), Chiggers, Chinch Bugs, Crickets, Cutworms (including Black Cutworms), Earwigs, Grasshoppers, Mealybugs, Sod Webworms (Lawn Moth), and Weevils (including Hyperodes and Bluegrass). Uniformly apply 1.2 to 2.4 pounds over a 1,000 sq. ft. area by using any hand or power operated gravity or rotary type spreader designed for the application of granular materials. A 12 pound bag will treat a 5,000 to 10,000 sq. ft. area. Best results are obtained if the treated area is thoroughly watered immediately after application. Treat when insects first appear and retreat as necessary. Repeat application is necessary only if there are signs of renewed insect activity. Repeat application should be limited to no more than once per seven days.

\*Aids in control.

**Argentine Ants, Black Turf Ants, Black Turfgrass Attenius, Fleas (including Cat Fleas), Leafhoppers, Spiders (including Brown Recluse spiders) and Ticks (including Brown Dog Ticks)**

Uniformly apply 2.4 pounds over a 1,000 sq.ft. area. Best results are obtained if the treated area is thoroughly watered immediately after application.

**Centipedes, Millipedes, Pavement Ants**

Uniformly apply 4.8 pounds over a 1,000 sq.ft. area. Best results are obtained if the treated area is thoroughly watered immediately after application.

**Mole Crickets (including Tawny Mole Crickets)**

Uniformly apply 2.4 to 4.8 pounds over a 1,000 sq. ft. area. For best results: treat in late spring, and water the treated area thoroughly immediately after application.

**For Scorpions and Sowbugs/Pillbugs**

Uniformly apply 9.6 pounds over a 1,000 sq.ft. area. Best results are obtained if the treated area is thoroughly watered immediately after application.

**For Fire Ant Mounds**

To control Fire ants, uniformly apply 1 tablespoon or 3 teaspoons\*\* of Talstar to the surface of each mound. For best results, 1) apply in cool weather, 65 to 80 °F, or in early morning or late evening hours, 2) avoid disturbing ants, 3) treat new mounds as they appear and 4) thoroughly water the treated area immediately after application.

\*\*Food utensils such as tablespoons/teaspoons must not be used for food purposes after use in measuring pesticides.

**Home Vegetable Gardens**  
How to Apply  
A single application may be applied just prior to planting or after plants emerge and worked into the top 4 to 6 inches of soil. Use 5 cups of product for a 600 sq. ft. area.

Vegetables	Days to wait to harvest	Pests
Green Peas, Edible Pods (Sugar Snap Peas, Snow Peas), Green Beans (Broad Beans, Snap Beans), Dry Beans (Black-eyed Peas, Cowpeas)	Days	Ants, cutworms, crickets, earwigs, grasshoppers, grubs, seed maggots, weevils and wireworms.
Sweet Corn	Day	Ants, armyworm, cutworms, crickets, earwigs, european corn borer, fall armyworm, grasshoppers, southwestern corn borer and weevils.
Broccoli, Brussels Sprouts, Cabbage, Cauliflower, Cavalo Broccoli, Chinese Broccoli, Chinese Cabbage, Kohlrabi	7 Days	Ants, cutworms, crickets, earwigs, grasshoppers, grubs, seed maggots, weevils and wireworms.
Cucurbit Vegetables (Cucumber, Chayote, Zucchini, Melon, Cucumber, Bitter Melon, Muskmelon, Cantaloupe, Watermelon, Crenshaw melon, Golden melon, Honeydew, Net melon, Apple melon, Santa Claus melon, Snake melon), Pumpkin, Summer Squash (Crookneck, Spaghetti Squash, Straightneck, Zucchini), Winter Squash, Butternut, Calabaza, Hubbard (including Acorn and Spaghetti), Watermelon	Days	Ants, cutworms, crickets, earwigs, grasshoppers, grubs, seed maggots, weevils and wireworms.
Peppers	Days	Ants, cutworms, crickets, earwigs, grasshoppers, grubs, seed maggots, weevils and wireworms.
Eggplant	7 Days	Ants, cutworms, crickets, earwigs, grasshoppers, grubs, seed maggots, weevils and wireworms.
Head Lettuce	7 Days	Ants, cutworms, crickets, earwigs, grasshoppers, grubs, seed maggots, weevils and wireworms.

**Home Vegetable Garden Spreader Tips**  
For best results, use a Scotts® spreader

Spreader	Cups of product for 600 sq. ft.	Directions
Scotts AccuGreen® Drop Spreader	5	Operate spreader the longest way of the garden area. Overlap wheel marks to ensure uniform feeding. Shut off spreader when you have reached the header strips or stopped.
Scotts SpeedyGreen® Rotary	5	Shut off spreader anytime you stop. For complete coverage make each pass about five feet from the previous one, so some overlapping occurs.

When using other spreaders, calibrate the spreader settings based on the manufacturer's recommendations.

**Dealers Should Sell in Original Packages Only.**

**Terms of Sale or Use:** On purchase of this product buyer and user agree to the following conditions:

**Warranty:** FMC makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Except as so warranted, the product is sold as is. Buyer and user assume all risk of use and/or handling and/or storage of this material when such use and/or handling and/or storage is contrary to label instructions.

**Directions and Recommendations:** Follow directions carefully. Timing, method of application and weather conditions, mixture with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of the seller and are assumed by the buyer at his own risk.

**Use of Product:** FMC's recommendations for the use of this product are based upon tests believed to be reliable. The use of this product being beyond the control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of such or the results to be obtained if not used in accordance with directions or established safe practice.

**Damages:** Buyer's or user's exclusive remedy for damages for breach of warranty or negligence shall be limited to direct damages not exceeding the purchase price paid and shall not include incidental or consequential damages.

Talstar and **FMC**—FMC Trademarks

(1723 - 5/23/02)

**OPTION I. Directions for Use for the ORTHO Group of The Scotts Company**

[Optional text]

**Talstar 0.1 Lawn Granular Insecticide Granules** is a high-performance product and is:

- [Virtually Odor-free]
- [Fast Acting]
- [Easy-To-Use]
- [Not harmful to grasses]
- For use on lawns, ornamentals, home perimeter, and flower gardens.
- For Outdoor Multi-insect control.
- Kills/controls pests/insects/bugs in lawns & landscapes.
- Kills Ants, Fleas, Ticks and other pests/insects/bugs.
- Controls/kills lawn-destroying/lawn-invading pests/insects/bugs.
- Covers up to 8,300 sq ft per 10 lbs.
- Covers up to 16,600 sq ft per 20 lbs.
- Covers up to 5,000 sq ft per 6 lbs.
- Creates a pest/insect/bug barrier around your home.
- Exceptional Value!
- Kills Chinch Bugs, Mole Crickets and Cutworms.
- Kills surface and sub-surface pests/insects/bugs that ruin your lawn.
- Ready-to-use.
- Easy to spread.
- Soil-penetrating formula reaches deep below ground.
- Deep-reaching formula that kills lawn-destroying insects.
- Provides a barrier of protection around your home.
- Guaranteed to work or your money back.
- Satisfaction Guaranteed
- The smart solutions to pest/insect/bug problems.
- Solves your pest/insect/bug problems fast.
- Also kills Scorpions.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do apply when insect activity or damage is first observed in the lawn (lawn thins and turns brown or moths fly from the grass when you mow). Don't treat just the browned area of lawn. To prevent further damage, treat entire lawn.

Retreat as necessary. Repeat application is necessary only if there are signs of renewed insect activity. Repeat application should be limited to not more than once per seven days.

In New York State, this product may NOT be applied to any grass or turf area (lawns) within 100 feet of a water body (lake, pond, river, stream, wetland, or drainage ditch).

In New York State, do make a single repeat application of this product if there are signs of renewed insect activity, but not sooner than two weeks after the first application.

Product Facts	
Surface Feeding Lawn Insects	Use <b>Talstar 0.1 Lawn Granular Insecticide</b> for the control of: Ants (including Argentine, Black Turf, Carpenter, Red Harvester, Odorous, Pyramid, Pharaoh), Armyworms (including Fall Armyworms), Billbugs (including Bluegrass Billbugs), Black Turfgrass Ataenius, Chinchbugs, Crickets, Cutworms (including Black Cutworms), Earwigs, Fleas (including Cat Fleas), Grasshoppers, Leafhoppers, Mealybugs, Sod Webworms (Lawn Moth) and Weevils (including Hyperodes and Bluegrass).
How To Use	<p><b>Insects (Listed above):</b></p> <ul style="list-style-type: none"> <li>• Uniformly apply 2.4 pounds over a 1,000 sq.ft. area of lawn using any hand or power operated gravity or rotary type spreader designed for the application of granular materials.</li> <li>• A 10 pound bag will treat up to 4,167 sq.ft. area of lawn.</li> <li>• A XX pound bag will treat up to XXX sq.ft. area of lawn.</li> <li>• Best results are obtained if the treated area is thoroughly watered immediately after application.</li> </ul> <p><b>Centipedes, Millipedes, Pavement Ants:</b></p> <ul style="list-style-type: none"> <li>• Uniformly apply 4.8 pounds over a 1,000 sq.ft. area of lawn. Bests results are obtained if the treated area is thoroughly watered immediately after application.</li> </ul> <p><b>For Mole Crickets (including Lawn Mole Crickets):</b></p> <ul style="list-style-type: none"> <li>• Uniformly apply 2.4 pounds over a 1,000 sq.ft. area of lawn. For best results, treat in late spring and water thoroughly immediately after application</li> </ul> <p><b>For Scorpions and Sowbugs/Pillbugs</b></p> <ul style="list-style-type: none"> <li>• Uniformly apply 9.6 pounds over a 1,000 sq.ft. area of lawn. Bests results are obtained if the treated area is thoroughly watered immediately after application.</li> </ul> <p><b>For Fire Ant Mounds:</b></p> <ul style="list-style-type: none"> <li>• Uniformly apply 1 tablespoon or 3 teaspoons** of granules to the surface of each mound. For best results: 1) apply in cool weather, 65 to 80° F, in early morning or late evening hours, 2) Avoid disturbing ants, 3) treat new mounds as they appear, 4) thoroughly water the treated area after application.</li> </ul>

\*\*Food utensils such as tablespoons/teaspoons must not be used for food purposes after use in measuring pesticides.

**Ornamental Flower Beds (Outdoors)**

**Pests Controlled:** Ants, crickets, earwigs, grasshoppers, spiders and ticks

**How to Apply:** Evenly apply 1.2 lb of product for every 500 sq ft area. Repeat application as necessary only if there are signs of renewed insect activity. Repeat application should be limited to no more than once per seven days.

**Home Invading Insects: Barrier Treatment Around House Foundation (Outdoors)**

**Pests Controlled:** Ants, chiggers, crickets, earwigs, grasshoppers, spiders and ticks

**How to Apply:** Evenly apply a 2 foot band of granules next to the house foundation. Use 1.2 lb for each 500 sq ft (2 ft X 250 ft). If necessary, repeat applications every 2 weeks only if there are signs of renewed insect activity.

Spreader Tips		
For best results, use a Scotts® spreader		
Spreader	Spreader Settings covers x,xxx sq. ft.	Directions
Scotts Drop Spreaders	?	Mow lawn first if grass is tall enough to touch the bottom of the spreader. First apply two header strips. Operate spreader the longest way of the lawn. Overlap wheel marks to ensure uniform feeding. Shut off spreader when you have reached the header strips or stopped.
Scotts Easy Green® Rotary	??	Slide shut-off lever to the right; application automatically starts and stops when you do. For complete coverage make each pass about 30 inches from the previous one so some overlapping occurs.
Scotts SpeedyGreen® Rotary	?	Shut off spreader anytime you stop. For complete coverage make each pass about five feet from the previous one, so some overlapping occurs. Avoid applying this product on flower, vegetable and shrub plantings.

**(Bag Size specific)**

Spreader Tips					
For best results, use a Scotts® spreader					
Spreader	Spreader Settings Pounds of Product per 500/1,000 sq. ft.				Directions
	0.6/1.2	1.2/2.4	2.4/4.8	4.8/9.6	
Scotts AccuGreen® Drop Spreader	3¼	4½	6	7¾	Mow lawn first if grass is tall enough to touch the bottom of the spreader. First apply two header strips. Operate spreader the longest way of the lawn. Overlap wheel marks to ensure uniform feeding. Shut off spreader when you have reached the header strips or stopped.
Scotts SpeedyGreen® Rotary	2	2¾	4½	7	Shut off spreader anytime you stop. For complete coverage make each pass about five feet from the previous one, so some overlapping occurs. Avoid applying this product on flower, vegetable and shrub plantings.

**OPTION I. (The Ortho Group)**

**Notice:** Buyer assumes all risks of use, storage or handling of this product not in accordance with directions.

[Phone Icon] **Questions, Comments or Medical Information call 1-800-225-2883** [www.ortho.com](http://www.ortho.com)

The ORTHO Guarantee  
If for any reason you are not satisfied with this product, mail us proof of purchase to obtain a full refund of your purchase price.

-----End of Option I-----

**Option II: Directions for Use for the Ortho Group of The Scotts Company**

**Talstar O.T. Lawn Granular Insecticide** is a high-performance product specially designed to be used in very low concentrations, and is:

- (Virtually Odor-free)
- (Fast Acting)
- (Easy-To-Use)
- (Not harmful to grasses)
- For Outdoor Multi-Insect control.
- Kills unwanted pests/insects/bugs on contact.
- Exceptional Value!
- Ready-to-use.
- Easy to spread.
- Guaranteed to work or your money back.
- Satisfaction Guaranteed.
- The smart solution to pest/insect/bug problems.
- Solves your pest/insect/bug problems fast!

**Vegetable Garden Insect Control**

How to Apply:  
A single application may be applied just prior to planting or after plants emerge and spread to the top 4 to 6 inches of soil. Use 5 cups of product for each acre.

Vegetable	Days to wait to harvest	Pests
Green Beans, Edible Peas, Snow Peas, Green Beans, Beans, Dry Beans, Cowpeas	Days	Ants, cutworms, crickets, earwigs, grasshoppers, grubs, seed maggots, weevils and wireworms.
Sweet Corn	1 Day	Ants, army worm, cutworms, crickets, earwigs, European corn borer, fall armyworm, grasshoppers, southwestern corn borer and weevils.
Broccoli, Brussels sprouts, Cabbage, Cauliflower, Savalo, Broccoli, Chinese Broccoli, Chinese Cabbage, Bok Choy	Days	Ants, cutworms, crickets, earwigs, grasshoppers, grubs, seed maggots, weevils and wireworms.
Cucurbit Vegetables, Chayote, Cucumber, Cucurbit, Cucurbit, Edible Gourd, Muskmelon (Cantaloupe, casaba, Crenshaw melon, Golden melon, Honeydew Melon, Strawberry melon, Santa Claus melon, Snake melon), Pumpkin, Summer Squash (Crookneck, Scallop, Straightneck, Zucchini), Winter Squash (Butternut, Calabaza, Hubbard including Acorn and Spaghetti), Watermelon	Days	Ants, cutworms, crickets, earwigs, grasshoppers, grubs, seed maggots, weevils and wireworms.
Peppers	7 Days	Ants, cutworms, crickets, earwigs, grasshoppers, grubs, seed maggots, weevils and wireworms.
Eggplant	7 Days	Ants, cutworms, crickets, earwigs, grasshoppers, grubs, seed maggots, weevils and wireworms.
Head Lettuce	7 Days	Ants, cutworms, crickets, earwigs, grasshoppers, grubs, seed maggots, weevils and wireworms.

**Home Vegetable Garden Spreader Tips**

For best results, use a Scotts® spreader

Spreader	5 cups of product for 500 sq.ft.	Directions
Scotts AccuGreen® Drop Spreader	3 1/4	Operate spreader the longest way of the garden area. Overlap wheel marks to ensure uniform feeding. Shut off spreader when you have reached the header strips or stopped.
Scotts SpeedyGreen® Rotary	2	Shut off spreader anytime you stop. For complete coverage make each pass about five feet from the previous one, so some overlapping occurs.

When using other spreaders, calibrate the spreader settings based on the manufacturer's recommendations.

-----End of Option II-----