

PM 13

279-3156

10/4

Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060. Approval expires 05-31-98



United States
Environmental Protection Agency
Washington, DC 20460

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

OPP Identifier Number
246783

Application for Pesticide - Section I

1. Company/Product Number 279-3156	2. EPA Product Manager G.T. LaRocca	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Talstar G.C. Flowable Insecticide/Miticide	PM# 13	
5. Name and Address of Applicant (Include ZIP Code) FMC Corporation 1735 Market Street Philadelphia, PA 19103 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

NOTIFICATION
OCT 21 1996

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

Notification of "Addition of Pests" as per PR Notice 95-2

Section - III

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

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Michael C. Zucker	Title Registration + Label Specialist	Telephone No. (include Area Code) (609) 951-3073
2. Signature Michael C. Zucker		6. Date Application Received (Stamped)
3. Title Registration + Label Specialist		
4. Typed Name Michael C. Zucker		
5. Date 10/4/96		

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

2094

RESTRICTED USE PESTICIDE
Toxic to fish and aquatic organisms.
For retail sale to and use only by certified applicators, or persons under their direct supervision and only for the uses covered by the certified applicator's certification.

Code 1657

Net Contents



NOTIFICATION
OCT 21 1996

For use to control insect pests on golf courses and on ornamentals and lawns in landscaped areas around residential, institutional, public, commercial and industrial buildings, parks, recreational areas, golf courses, and athletic fields.

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

IF ON SKIN: Wash with plenty of soap and water. Get medical attention.

IF IN EYES: Flush with plenty of water. Call a physician if irritation persists.

Note to Physician:
This product is a pyrethroid. If large amounts have been ingested, the stomach and intestine should be evacuated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase absorption and so should be avoided.

EPA Reg. No. 279-3156

EPA Est. 279-

Active Ingredient:	By Wt.
Bifenthrin: (2-methyl [1,1'-biphenyl]-3-yl) methyl-3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropane carboxylate*	7.9%
Inert Ingredients:	92.1%
	100.0%

For Emergency Assistance Call: (800) 331-3148

*Cis isomers 97% minimum, trans isomers 3% maximum.

Talstar® Flowable insecticide/miticide contains 1/5 pound active ingredient per gallon.

U.S. Patent No. 4,238,505

PRECAUTIONARY STATEMENTS
Hazards to Humans (and Domestic Animals)

CAUTION
Harmful if swallowed, inhaled or absorbed through skin. Avoid contact with skin, eyes or clothing. Avoid breathing dust (vapor or spray mist).

KEEP OUT OF REACH OF CHILDREN
CAUTION

Environmental Hazards

This pesticide is extremely toxic to fish and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present or in intertidal areas below the mean high water mark. Drift and run-off from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters.

See other panels for additional precautionary information.

This product is highly toxic to Bees exposed to direct treatment of residues on blooming crops or weeds. Do not apply this product or allow to drift to blooming crops if Bees are visiting the treatment area.



FMC Corporation
Agricultural Products Group
Philadelphia PA 19103

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DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes or climate modification and being grown in interior plantscapes, ornamental gardens or parks, or on golf courses or lawns or grounds.

Do not apply this product through any kind of irrigation system.

Not for use on sod farms or grass grown for seed.

STORAGE AND DISPOSAL

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. Do not put concentrate or dilute material into food or drink container.

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

To Confine Spill: If liquid, dike surrounding area or absorb with sand, cat litter or commercial clay. If dry material, cover to prevent dispersal. Place damaged package in a holding container. Identify contents.

Pesticide Disposal: Pesticide wastes are toxic. Do not contaminate water, food or feed by storage or disposal. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. Dispose of excess or waste pesticide by use according to label directions, or contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal Plastic Container: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Returnable/Refillable Sealed Container: Do not rinse container. Do not empty remaining formulated product. Do not break seals. Return intact to point of purchase.

General Applications Instructions

Talstar® GC Flowable Insecticide/Miticide formulation mixes readily with water and other aqueous carriers, and controls a wide spectrum of insects and mites on ornamentals, trees, shrubs, foliage plants non-bearing fruit and nut trees, and flowers in interiorscapes including hotels, shopping malls, office buildings, etc., and, outdoor plantscapes, such as around residential dwellings, parks, institutional, public, commercial and industrial buildings, recreational, athletic fields, home lawns and golf courses. Non-bearing crops are perennial crops that will not produce a harvestable raw agricultural commodity during the season of application.

Talstar GC may be tank-mixed with other products, including insect growth regulators. When tank mixing Talstar GC with other products, observe all precautions and limitations on each separate product label. The addition of spreader stickers is not necessary. The physical compatibility of Talstar GC may vary with different sources of pesticide products, and local cultural practices. Any tank mixture which has not been previously tested should be prepared on a small scale (pint or quart jar), using the proper proportions of chemicals and water to ensure the physical compatibility of the mixture.

The following procedure is recommended for preparation of a new tank mix, unless specified otherwise in label directions: (1) Add wettable powders to tank water, (2) Agitate, (3) Add liquids and flowables, (4) Agitate, (5) Add emulsifiable concentrates, and (6) Agitate. If a mixture is found to be incompatible following this order of addition, try reversing the order of addition, or increase the volume of water. Note: If the tank-mixture is found to be compatible after increasing the amount of water, then the sprayer will need to be recalibrated for a higher volume application. Do not allow tank mix to stand overnight.

Maximum rates: Do not apply more than 0.1 lb ai/acre in a single application, no more than 0.2 lb ai/acre/year for outdoor applications.

APPLICATION RECOMMENDATIONS

Grass Areas (Including golf courses, home lawns, lawn areas around parks, institutional, public, commercial and industrial buildings, recreational and athletic fields).

Apply Talstar GC as a broadcast treatment. Use higher volumes up to 10 gallons of carrier per 1000 square feet to get uniform coverage when treating dense grass foliage.

For low water volume usage, less than 2 gallons/1000 square feet, addition of a non-ionic or silicone based surfactant (0.25% v/v) is recommended, as is immediate irrigation of treated area with at least 0.25 inches of water following application to ensure efficacy of sub-surface pests such as, but not limited to, Mole Crickets.

GRASS APPLICATION RATES

Pest	Talstar Flowable	Comments
Annual Bluegrass Weevil (Hyperodes) (Adult)	0.23 - 0.46 fl.ozs. per 1000 square feet	*For control of over-wintered Mole Crickets apply the lower rate in early Spring. For the control of adult Mole Crickets in late-Summer or early Fall, apply the higher rate. To enhance control a non-ionic surfactant or a silicone based surfactant (0.25% v/v) may be applied as a tank-mix for the control of late Summer or Fall Adult Mole Crickets. To maximize efficacy against sub-surface pests, Talstar should be applied with a non-ionic or silicone based surfactant (0.25% v/v) in sufficient water to ensure good penetration of spray to soil-thatch matrix. Treated areas should then be irrigated with 0.25 to 0.5 inches of water immediately afterwards paying special attention so that run-off or puddling does not occur.
Ants	-or-	
Armyworms	-or-	
Billbugs (Adult)	10 - 20 fl.ozs. per Acre	
Black Turfgrass Ataenius (Adult)	-or-	
Centipedes	0.05 - 0.1 lbs ai per Acre	
Chinch Bugs	-or-	
Crane Flies	-or-	
Crickets	-or-	
Cutworms	-or-	
Earwigs	-or-	
Fall Webworms	-or-	
Fleas (adults, larvae)	-or-	
Grasshoppers	-or-	
Leathoppers	-or-	
Mealybugs	-or-	
Millipedes	-or-	
Mites	-or-	
Mole Crickets*	-or-	
Pillbugs	-or-	
Sod Webworms	-or-	
Sowbugs	-or-	
Ticks	-or-	
Imported Fire Ants	0.46 fl.ozs. per 1000 square feet	Delay watering or mowing for 24 hours after application to ensure optimum control of Armyworms, Cutworms and Sod Webworms.
Japanese Beetles (adult)	-or-	
	20 fl.ozs. per Acre	
	-or-	
	0.1 lbs. ai per acre	

Added pests

Apply with ground application equipment only (and apply with nozzles not more than two feet above the grass).

Do not apply when wind conditions favor downwind drift to nearby water bodies.

Do not apply when wind velocity exceeds 10 miles per hour.

Avoid application when wind gusts approach 10 mph.

Do not apply when a temperature inversion exists.

Apply using nozzles that provide the largest droplet size compatible with adequate coverage.

Do not apply for surface feeding pests if rain is expected within 12 hours (or whatever time is necessary for the spray to dry).

Do not apply by ground equipment within 25 feet of lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries, and commercial fish farm ponds.

Do not apply when grass areas are water-logged or the soil is saturated with water (i.e. will not accept irrigation).

Ornamentals in Interiorscapes, Plantscapes and Landscapes
 For ornamental applications, dilute 0.8 to 2.0 fluid ounces of Talstar® GC Flowable insecticide/miticide per 10 gallons of water and apply at the rate of 10 gallons per 4,356 square feet. One gallon of finish spray will treat 435 square feet. If a higher volume application is required for adequate coverage of the plant canopy, Talstar GC may be diluted in large volumes of water as long as the maximum label rate (2.0 fluid ounces per 4,356 square feet) is not exceeded. Talstar GC may be applied through low volume equipment by dilution with water and providing the maximum label rate (2.0 fluid ounces per 4,356 square feet) is not exceeded.

ORNAMENTAL APPLICATION RATES

Pest	Rate lb ai/ 10 gallons	Rate fl.oz./ 10 gallons	Comments
Ants	0.004 to 0.01	0.80 to 2.0	Apply the specified rate as a full coverage foliar spray. Repeat as necessary to achieve control using higher rates as pest pressure and foliage area increases.
Aphids			
Bagworms	0.006 to 0.01	1.2 to 2.0	To control Bagworm: Apply when larvae begin to hatch. Spray larvae directly. Applications made when larvae are young will be most effective.
Black Vine Weevil (adults)			
Brown Soft Scales	0.01	2.0	To control scale crawlers and twig borers: Treat trunks, stems, and twigs in addition to plant foliage.
Broad Mites			
Budworms	0.01	2.0	Certain cultivars may be sensitive to the final spray solution. A small number of plants should be treated and observed for one week prior to application to the entire planting.
California Red Scale (crawlers)			
Centipedes	0.01	2.0	Use of an alternate class of chemistry in a treatment program is recommended to prevent or delay pest resistance.
Clover Mites			
Crickets	0.01	2.0	Use sufficient water to obtain uniform coverage. Typical use rates are 10 gallons of spray per 4,356 square feet.
Cutworms			
Earwigs	0.01	2.0	To control Black Vine Weevil and Fungus Gnat larvae, apply as a drench at the rate of approximately 8 ounces of finished spray per 6 inch pot.
Elm Leaf Beetles			
Fall Webworms	0.01	2.0	*For control of over-wintered Mole Crickets apply the lower rate in early Spring. For the control of adult Mole Crickets in late-Summer or early Fall, apply the higher rate.
Flea Beetles			
Fungus Gnats (adults)	0.01	2.0	
Grasshoppers			
Gypsy Moth Caterpillars	0.01	2.0	
Lace Bugs			
Leafhoppers	0.01	2.0	
Leaf feeding Caterpillars			
Mealybugs	0.01	2.0	
Millipedes			
Mites	0.01	2.0	
Mole Crickets*			
Orchid Weevil	0.01	2.0	
Pillbugs			
Pine Needle Scales (crawlers)	0.01	2.0	
Plant Bugs (incl. Lygus spp)			
San Jose Scales (crawlers)	0.01	2.0	
Sowbugs			
Spiders	0.01	2.0	
Tent Caterpillars			
Tip Moths	0.01	2.0	
Weevils			
Whiteflies	0.01	2.0	
Citrus Thrips			
Beet Armyworm	0.01	2.0	
Diaprepes (larvae, adult)			
European Red Mite	0.01	2.0	
Leafrollers			
Spider Mites	0.01	2.0	
Thrips			
Twig Borers	0.01	2.0	
Imported Fire Ants			
Japanese Beetles (adult)	0.01	2.0	
Leafminers			
Pecan Leaf Scorch Mite	0.01	2.0	
Pine Shoot Beetle			
Black Vine Weevil (larvae)	0.01	2.0	
Fungus Gnats (larvae)			

Added pests

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.

Use of Product: FMC's recommendations for 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.

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