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



United States Environmental Protection Agency Washington, DC 20460

Registration Amendment Other

OPP Identifier Number 242312

Application for Pesticide - Section I

1. Company/Product Number 279-3105
2. EPA Product Manager GT LaRocca
3. Proposed Classification None Restricted
4. Company/Product Name 19 Star Hockbe Insecticide/M. Insecticide
5. Name and Address of Applicant FMC Corporation 1735 Market St Philadelphia PA 19103
6. Expedited Review EPA Reg. No. Product Name

Section - II

Amendment - Explain below. Resubmission in response to Agency letter dated. Notification - Explain below. Final printed labels in response to Agency letter dated "Me Too" Application. Other - Explain below.

NOTIFICATION MAY 22 1996

Explanation: Use additional page(s) if necessary. (For section I and Section II.) Notification of Adding Advisory Statement As per PR Notice 95-2

Section - III

1. Material This Product Will Be Packaged In: Child-Resistant Packaging, Unit Packaging, Water Soluble Packaging, 2. Type of Container, 3. Location of Net Contents Information, 4. Size(s) Retail Container, 5. Location of Label Directions, 6. Manner in Which Label is Affixed to Product

Section - IV

1. Contact Point Name George Meindl Title Associate Registration Specialist Telephone No. 609-951-3500
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete.
2. Signature George Meindl 3. Title Associate Registration Specialist
4. Typed Name George Meindl 5. Date 5/6/96
6. Date Application Received (Stamped)

Code 1349

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Net Contents



**FLOWABLE INSECTICIDE/MITICIDE**

**For Agricultural and Commercial Use Only**

EPA Reg. No. 279-3105

EPA Est. 279-

Active Ingredients:	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%

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

Talstar Flowable contains 3/4 pound active ingredient per gallon.

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

See other panels for additional precautionary information.

**NOT FOR USE IN NEW YORK STATE WITHOUT THE PRODUCT BULLETIN FOR TALSTAR FLOWABLE INSECTICIDE/MITICIDE.**

**STATEMENT OF PRACTICAL TREATMENT**

**If swallowed:** Contact a medical doctor or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger or by giving syrup of ipecac. Do not induce vomiting or give anything by mouth to an unconscious person.

**If inhaled:** Remove 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 irritation occurs and persists.

**If in eyes:** Flush with plenty of water. Contact a medical doctor if irritation occurs and persists.

**Note to Medical Doctor:** Talstar Flowable has moderate inhalation, and oral and dermal toxicity. It is practically non-irritating to the eyes and non-irritating to the skin. Reversible skin sensations (paresthesia) may occur and ordinary skin salves have been found useful in reducing discomfort. Treatment is otherwise controlled by removal of exposure followed by symptomatic and supportive care.

For Emergency Assistance Call 1-800-331-3148



FMC Corporation  
Agricultural Chemical Group  
Philadelphia PA 19103

**PRECAUTIONARY STATEMENTS**

**Hazards to Human (and Domestic Animals)**

**CAUTION**

Harmful if swallowed, inhaled or absorbed through skin. Causes minimal eye irritation. Avoid breathing vapor or spray mist. Avoid contact with skin, eyes or clothing.

**Personnel Protective Equipment:**

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions or category C on an EPA chemical resistance category selection chart.

**Applicators and other handlers (other than mixers and loaders) must wear:**

- Long-sleeved shirt and long pants
- Chemical-resistant gloves such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride or viton.
- Shoes plus socks

**Mixers and Loaders must wear:**

- Long-sleeved shirt and long pants
- Chemical-resistant gloves such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride or viton.
- Shoes plus socks
- Protective eyewear

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**

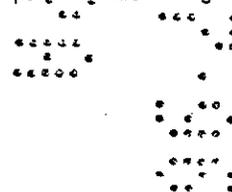
**Users Should:**

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**Environmental Hazards**

This pesticide is extremely toxic to fish and aquatic invertebrates. 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. 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.

This product is highly toxic to bees exposed to direct treatment or 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.



## 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 handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

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

### AGRICULTURE 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 intervals. The requirements in this box only apply to users of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

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

- Coveralls
- Chemical-resistant gloves, such as barrier laminate or butyl rubber or nitrile rubber or neoprene rubber or polyvinyl chloride or viton.
- Shoes plus socks

### NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product 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 children and pets off treated areas following application until the lawn has dried.

### STORAGE AND DISPOSAL

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

**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: 1-800-331-3148.**

**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.

## APPLICATION RECOMMENDATIONS

**Landscape Ornamentals, Greenhouse and Home Lawn Uses (Including Interiorscapes, Plantscapes, and Ornamental Plantings Grown for Aesthetic Purpose)**

### General Applications Instructions

Talstar Flowable formulation mixes readily with water and other aqueous carriers, and may be applied using all types of spray equipment. Talstar may be tank-mixed with other products, including insect growth regulators, to control a wide spectrum of insects and mites on trees, shrubs, foliage plants, non-bearing fruit and nut trees, and flowers in greenhouses and interiorscapes including hotels, shopping malls, office buildings, etc., and, outdoor plantscapes, such as around residential dwellings, parks, institutional, recreational, athletic fields and home lawns.

When tank mixing Talstar with other products, observe all precautions and limitations on each separate product label. The addition of spreader stickers is not necessary.

### RECOMMENDED APPLICATION RATES FOR LANDSCAPE ORNAMENTALS AND GREENHOUSES

Pest	Rate lb ai/ 10 gal.	Rate oz/ 10 gal.	Comments
Ants Aphids Bagworms Blackvine Weevil Brown Soft Scales Broad Mites Budworms California Red Scale (crawlers) Centipedes Clover Mites Crickets Cutworms Earwigs Elm Leaf Beetles Fall Webworms Flea Beetles Fungus Gnats Grasshoppers Lacebugs Leafhoppers Leaf feeding Caterpillars Mealybugs Millipedes Orchid Weevil Pillbugs Pine Needle Scales (crawlers) Plant Bugs (incl. Lygus spp) San Jose Scales (crawlers) Sowbugs Spiders Tent Caterpillars Tip Moths Weevils Whiteflies	0.004 to 0.02	0.80 to 4.0	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.  To control Bagworm: Apply when larvae begin to hatch. Spray larvae directly. Applications made when larvae are young will be most effective.  To control scale crawlers and twig borers: Treat trunks, stems, and twigs in addition to plant foliage.  Certain cultivars may be sensitive to the final spray solution. A small number of plants should be treated prior to application of the entire planting.  Use of an alternate class of chemistry in a treatment program is recommended to prevent or delay pest resistance.
Citrus Thrips Beet Armyworm European Red Mite Leafrollers Spider Mites Thrips Twig Borers	0.006 to 0.02	1.2 to 4.0	
Japanese Beetles (adult) Leafminers Pecan Leaf Scorch Mite	0.01 to 0.02	2.0 to 4.0	

**Application to Home Lawns:** Apply Talstar Flowable as a broadcast treatment in 2 to 10 gallons of carrier per 1000 ft<sup>2</sup>. Use higher volumes to get uniform coverage when treating dense grass foliage.

**RECOMMENDED LAWN APPLICATION RATES**

Pest	Talstar Flowable	Comments
Ants Armyworms Bluegrass billbugs Chinchbugs Crane Flies Crickets (Mole)* Cutworms Earwigs Fall Webworms Fleas Grasshoppers Mites Sod Webworms Ticks	0.23 - 0.46 oz. per 1000 ft <sup>2</sup>  -or-  10 - 20 oz. per Acre  -or-  0.05 - 0.1 lbs ai per Acre	*For control of overwintered Mole Crickets apply the lower rate early Spring. For the control of adult Mole Crickets late-Summer or early Fall apply the higher rate.  To enhance control a non-ionic surfactant or a silicon based surfactant (0.25% w/v) may be applied as a tank-mix for the control of late Summer or Fall Adult Mole Crickets. For best results irrigate immediately after application with a minimum of 0.25 inches of water.
Imported Fire Ants Japanese Beetles (adult)	0.46 - 0.92 oz. per 1000 ft <sup>2</sup>  -or-  20 - 40 oz. per Acre	

Rate Talstar Flowable in oz. (lbs. a.i.)	Talstar Flowable/Gallons of Finished Spray				
	1 gal.	3 gal.	5 gal.	25 gal.	100 gal.
0.80 (0.004)		1/3	1/2	2	8
1.2 (0.006)	1/3	1/2	3/4	3	12
2.0 (0.010)	1/2	3/4	1	5	20

**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:

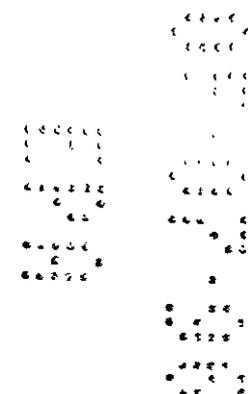
**Warranty:** FMC makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Except as so warranted, the product is sold as is. Buyer and user assume all risk of use and/or handling and/or storage of this material when such use and/or handling and/or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

Talstar and FMC — Trademarks of FMC Corporation (1349-11/3/94-A)

**Revisions:**  
1. Addition of Product Bulletin statement for New York.



Code 1349

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## Product Bulletin

For Distribution and Use Only in the State of New York

Talstar® Flowable Insecticide/Miticide

EPA Reg. No. 279-3105

### Directions For Use

For Use by Certified Applicators Only

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

For Application Uses on Landscape Ornamentals (Including Plantscapes, and Ornamental Plantings Grown for Aesthetic Purposes) and Home Lawns:

#### The Following Precautionary Measures Must be Obeyed.

A 100 foot buffer must be maintained between the application site and waters of the State. A 100 foot buffer is required for all waters except those entirely privately owned with no outlet to State waters. The buffer must consist of well maintained, established vegetation (i.e. grass, etc.) growth and must be maintained to prevent the development of channels.

Do not make more than three (3) applications per year, with a minimum re-application interval of 30 days.

Follow all other applicable directions, restrictions and precautions on the EPA registered label.

This labeling must be in the possession of the user at the time of pesticide application.

**FMC®**

FMC Corporation  
Agricultural Products Group  
1735 Market Street  
Philadelphia, PA 19103

Talstar and  — FMC Trademarks

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**FMC Corporation**

APG Specialty Products  
PO Box 8  
Princeton New Jersey 08542-0008  
1-800-528-8873



**CERTIFICATION STATEMENT**

This notification is consistent with the provisions of PR Notice 95-2 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 95-2 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.

George L. Meindl  
Associate Registration Specialist  
APG Specialty Products  
FMC Corporation

Date: 5/6/96

