

PM 03

279-3105 8/20/97

Page 174

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174

AUG 20 1997

Mr. George Meindl
FMC Corporation
PO Box 8
Princeton, NJ 08543

Dear Mr. Meindl:

Subject: Updated Note to Physician
Talstar Flowable Insecticide/Miticide
EPA Registration No. 279-3105
Your Submission Dated August 18, 1995

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. A stamped copy is enclosed for your records.

At the next label printing make the following change: Your product contains only one active ingredient so singularize the term "Active Ingredients."

You may add the advisory statement that was added to your labeling by notification on May 6, 1996.

Sincerely,

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



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 1/4 pound active ingredient per gallon.

KEEP OUT OF REACH OF CHILDREN

CAUTION

See other panels for additional precautionary information.

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.

For Emergency Assistance Call (800) 331-3148.

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).

Personal Protective Equipment:

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for 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.

FMC

FMC Corporation
Agricultural Products Group
Philadelphia PA 19103

8/95 Rev.1

ACCEPTED
with COMMENTS
in EPA Letter Dated

AUG 20 1997

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

279-3105

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 drink. 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.

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 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 entry into 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 users 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 Purposes)

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	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.
Aphids			
Bagworms			
Blackvine Weevil			
Brown Soft Scales			
Broad Mites			
Budworms			
California Red Scale (crawlers)			
Centipedes			
Clover Mite			
Crickets			
Cuscutoms			
Earwigs			
Elm Leaf Beetles			
Fall Webworms			
Fire 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)			
Scowbugs			
Spiders			
Tent Caterpillars			
Tip Moths			
Weevils			
Whiteflies			
Citrus Thrips	0.006 to 0.02	1.2 to 4.0	
Beet Armyworm			
European Red Mite			
Leafrollers			
Spider Mites			
Thrips			
Twig Borers			
Japanese Beetles (adult)	0.01 to 0.02	2.0 to 4.0	
Leafminers			
Pecan Leaf Scorch Mite			

Application to Home Lawns: Apply Talstar Flowable as a broadcast treatment in 2 to 10 gallons of carrier per 1000 ft². 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 - 0.45 oz. per 1000 ft ² -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 ² -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)		1/4	1/4	2	8
1.2 (0.006)	1/4	1/4	1/4	3	12
2.0 (0.010)	1/4	1/4	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 ~~TM~~ —Trademarks of FMC Corporation (1348-11/3/94-A)

Revisions:

1. Addition of Crane Flies.