



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

AUG 23 2000

Mr. Michael Zucker
FMC Corporation
APG Specialty Products
1735 Market Street
Philadelphia, PA 19103

Dear Mr. Zucker:

Subject: Request to Amend Label-Expand Uses
Talstar 2.4% Insecticide/Miticide
EPA Reg. No. 279-3218
Your Submission Dated July 24, 2000

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable subject to the comment listed below.

1. Regarding the labeling:
 - a. Add the following precautionary language for use of this product against hornets, wasps and yellow jackets: "Application should be made in the late evening when insects are at rest. Aim spray at nest openings in ground, bushes and in cracks and crevices which may harbor nests, saturating nest openings and contacting as many insects as possible".
 - b. Add, "french drains and sump systems" to the statement Important (i.e., "Do not treat structures that contain cisterns, wells, french drains or sump systems.").

Three copies of the finished labeling must be submitted prior to releasing the product for shipment. A stamped label is enclosed for your records. If you have any questions regarding this letter, please contact Linda Werrell Gerber of my team at (703) 308-8033.

Sincerely,

A handwritten signature in cursive script, appearing to read "Linda Werrell Gerber".

George T. LaRocca

Product Manager 13

Insecticide-Rodenticide Branch

Registration Division (7505C)

6073

274
Net Contents

2.4% ME INSECTICIDE/MITICIDE

FOR OUTDOOR, HOMEOWNER, POST CONSTRUCTION USE ONLY

For Use Around Foundations, Outside Buildings, Lawns, Woodpiles, Stored Lumber and Fence Posts

Kills and controls ants, termites and certain wood destroying insects. This product can be used for treatment of localized areas of wooden structures, wood piles and stored lumber to control wood infesting borers, carpenter ants and carpenter bees. In addition, controls many common pests in lawns and other outdoor areas around the home.

DO NOT USE INSIDE DWELLINGS. For use around existing structures, not for Pre-Construction use.

EPA Reg. No. 279-3218

EPA Est. 279-

Active Ingredient:

Bifenthrin: 2.4%

Inert Ingredients: 97.6%
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.

ACCEPTED
with COMMENTS
in EPA Letter Dated:

AUG 23 2000

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

FMC Corporation
Agricultural Products Group
Philadelphia PA 19103

2.4% ME 7/00 I&TK Dft.2 Htt.

FIRST AID

If swallowed

- Call 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 the poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

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

HOTLINE NUMBER

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.

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.

PRECAUTIONARY STATEMENTS

Hazards to Human (and Domestic Animals)

CAUTION

Harmful if swallowed, inhaled or absorbed through skin. Causes moderate eye irritation. Avoid breathing vapor or spray mist. Avoid contact with skin, 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. 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 or rinsate. Care should be used when spraying to avoid fish and reptile pets in/around ornamental ponds.

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.

Talstar® 2.4% ME insecticide/miticide is a high-performance product. Talstar® 2.4% ME has a long residual, providing up to 16 weeks control of Cockroaches and up to 12 weeks control of other pests. Talstar® 2.4% ME is:

- Virtually odor-free
- Fast-acting
- Water-based
- Easy-to-use
- Non-staining
- Broad-spectrum
- Kills Ants, Earwigs, Fleas, Insects, Mites, Roaches, Silverfish, Spiders, Ticks & Other Listed Pests
- For outdoor use only

Mixing Instructions: Talstar® 2.4% ME is a micro-emulsion concentrate and must be diluted before use. Please read the following "Directions for Use" carefully and fully before applying this product. As detailed below, add the appropriate amount of water to a spray tank, and then add the proper amount of product. Tighten the lid on the tank and mix the contents by either shaking or inverting for about 10 to 15 seconds.

Note: 1 fluid ounce = 2 tablespoons = 6 teaspoons = 29.57 ml. Do not use household utensils to measure Talstar® 2.4% ME.

Talstar® 2.4% ME Insecticide/Miticide Dilution Chart

Volume of Ready-To-Use Spray	Amount of Talstar 2.4% ME Fluid Ounces
1 Quart	0.8
2 Quarts	1.6
3 Quarts	2.4
4 Quarts (1 Gallon)	3.2
5 Quarts	4.0

	Milliliters
1 Liter	25.0
2 Liters	50.0
3 Liters	75.0
4 Liters	100.0
5 Liters	125.0

Home Invading Pests (Outside Dwelling)

Ants, Bees, Beetles (1), Boxelder Bugs, Carpenter Ants (1), Carpenter Bees (1), Centipedes, Clover Mites, Cockroaches, Crickets, Earwigs, Elm Leaf Beetles, Fleas, Flies, Hornets, House Flies, Millipedes, Mosquitoes, Scorpions (2), Silverfish, Sowbugs, Spiders, Springtails, Ticks, Wasps, Yellowjackets.

NOTE: Number in parenthesis refer to Specific Directions. (1) For d information, see section on Treatment For Wood Destroying. (2) For Scorpions, remove accumulations of lumber, firewood, and other materials which serve as harborage sites and treat beneath and adjacent to infested areas.

Pest Control on Lawns Outside Surfaces and Around Buildings

Apply as a coarse spray to outside surfaces of residential buildings including, exterior siding, foundations, porches, window frames, eaves, patios, lawns such as grass areas adjacent to or around private homes, duplexes, townhouses, condominiums, house trailers, recreational vehicles, houseboats, apartment complexes, carports, garages, fence lines, storage sheds, barns and other residential structures.

Nuisance Pests Outside: Use this product to control Ants, including Carpenter, Red Harvester, Pavement, Odorous Pyramid, Argentine, Pharaoh (Sugar) and foraging Fire Ants, Armyworms, Bees, Biting Flies, Boxelder Bugs, Centipedes, Chiggers, Chinch Bugs, Clover Mites, Crickets, including Mole Crickets, Cutworms, Dichondra Flea Beetles, Earwigs, Elm Leaf Beetles, European Crane Flies, Firebrats, Fleas, Flies, Grasshoppers, Hornets, Japanese Beetles, Millipedes, Mites, including Two spotted, Tropical, Russet, Clover and Red Spider Mites, Mosquitoes, Moths, German Cockroaches, Scorpions, Silverfish Sod Webworms, Sowbugs (Pillbugs), Spiders, including Black Widow and Brown Recluse Spiders, Springtails, Ticks, including Brown Dog Ticks, and Wasps.

Apply as a coarse spray to outside surfaces of doorways, window frames or wherever pests may enter buildings. Also treat surfaces around light fixtures, porches, in garages and other places where insects are seen. Treat eaves, foundations, refuse dumps, garbage cans and garbage areas, patios and any other areas where pests have been seen to congregate. Thoroughly spray localized infestations in weeds or around ornamental plants. Retreatment may be necessary to achieve and/or maintain control during periods of high pest pressure. 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.

Perimeter Treatment: Apply to a band of soil and vegetation 6 to 10 feet wide around and adjacent to the structure. Also, treat the foundation of the structure to a height of 2 to 3 feet. Use a spray volume of 2 to 10 gallons of emulsion per 1000 square feet. Higher volumes of water may be needed if mulch or leaf litter is present or foliage is dense. House siding may be treated if pests such as Gypsy Moth adults and caterpillars, Boxelder Bugs, Elm Leaf Beetles, Earwigs or Silverfish are present.

Treatment For Wood Destroying Pests (Outdoors)

Localized Areas Outdoors: For the control of insects such as termites, ants, carpenter ants, and wood-infesting beetles such as Old House Borer and Powder Post in localized areas of infested wood around structures, apply emulsion to voids and galleries in damaged wood and in spaces between wooden members of a structure and between wood and foundations where wood is vulnerable. Paint on or fan spray applications may also be used.

For wood piles and stored lumber: Use a hose-end sprayer or sprinkling can to deliver a coarse drenching spray. Treated wood can be burned or used for lumber one month after treatment. Do not use in structures.

Subterranean Termites - For Outdoor Post-Construction Use Only

Kills and controls subterranean termites. Chemicals for soil treatment are used to establish a barrier against termites. The chemical emulsion must be adequately dispersed in the soil to provide a barrier between the wood in the structure and the termite colonies in the soil. Barriers may be established in the soil on the outside perimeter of the house by trenching using a rate of 4 gallons of emulsion per 10 linear feet per foot of depth. A complete termite barrier may require treatment with another EPA registered product to the inside perimeter of the foundation and to other interior critical areas. For these situations contact a licensed pest control operator for treatment. Do not use under slabs, in crawl spaces, or indoors. If termites are found within the house or structure, contact a licensed pest control operator for treatment.

Important: Do not treat structures that contain cisterns or wells. Soil in the vicinity of wells, cisterns or ponds should not be treated. For those situations, contact your County Cooperative Extension Agent or consult a commercial pest control service.

Do not treat soil that is water saturated or frozen or in any conditions where full soil movement from the treatment area (site) is likely to occur. Do not apply while it is raining.

Mixing Instructions: For a sprinkling can, add 3.2 fl.ozs. to 1 gallon of water for each 2.5 linear feet (12.8 fl.ozs. to 4 gallons of water for each 10 linear feet).

Trench Treatment

Remove all wood debris and wood forms. Around piers, chimney bases and along foundations of poured concrete, dig a trench 6 inches wide and 4 inches deep. For brick and block foundations, dig the trench about 12 inches deep. If footing is more than 12 inches deep, make holes with a crowbar, pipe or steel rod about 1 foot apart that extend from the bottom of the trench to the top of the footing. Make holes closer in hard packed clay soils. NEVER DIG BELOW THE TOP OF THE FOOTING. Apply the diluted solution (emulsion) in the trench at a rate of 4 gallons per 10 linear feet per foot of depth. Apply half of this to the backfill as the trench is refilled.

Fence Posts (Except Rhode Island): Using a sprinkling can, pour 1/2 gallon of diluted product into fence post hole and add another 1/2 gallon to the soil when filling the hole so that all the fill soil is treated to form a protective barrier.

Fence Posts - Termite Prevention

Create an insecticidal barrier in the soil around wooden constructions such as signs, fences and landscape ornamentation.

Previously installed poles and posts may be treated by gravity-flow through holes made from the bottom of a trench around the pole or post. Treat on all sides to create a continuous insecticidal barrier around the pole. Use 1 gallon of emulsion per foot of depth for poles and posts less than six inches in diameter. For larger poles, use 1.5 gallons of emulsion per foot of depth. Apply to a depth of 6 inches below the bottom of the wood. For larger constructions, use 4 gallons per 10 linear feet per foot of depth.

When to Re-apply

Reapplication for subterranean termites should only be made when there has been a disruption of the chemical barrier in the soil due to construction, excavation, landscaping, etc. Reapplication should be made as a spot treatment to those areas. Annual reapplication of the entire premises must be avoided.

For Ant and Fire Ant Mounds use Talstar® 2.4% ME as a Drench Method: Apply 1-2 gallons of emulsion to each mound area by sprinkling the mound until it is wet and treat a 4 foot diameter circle around

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the mound. Use the higher volume for mounds larger than 12". For best results, apply in cool weather, such as in early morning or late evening hours, but not in the heat of the day. Treat new mounds as they appear.

Attention:

Keep children and pets off treated areas following application until the area has dried.

Do not use on vegetables or food crops.

Do not treat pets with this product.

Do not spray inside dwellings.

NOTE: Mosquitoes outdoors coming to rest on areas treated for the control of lawn and home invading pests will be killed for varying periods of time after treatment, depending on exposure of treated areas to weathering conditions.

STORAGE AND DISPOSAL

Storage: Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place, preferably in a locked storage area and avoid excess heat. Carefully open containers. After partial use, replace lids and close tightly. Do not put concentrate or dilute material into drink containers.

Product Disposal: Partially filled plastic bottle - Securely wrap original plastic bottle in several layers of newspaper and put in trash.

Container Disposal: Do not reuse empty plastic bottle for concentrate. Wrap plastic bottle and put in trash.

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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