

PM-10

Reg # 499-426

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U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division (H7505C)  
401 "M" St., S.W.  
Washington, D.C. 20460

EPA Reg. Number: 499-426  
Date of Issuance: 18 JUN 1996

Term of Issuance: Unconditional

Name of Pesticide Product: Whitmire  
TC 114 Emulsifiable  
Concentrate

NOTICE OF PESTICIDE:  
  X   Registration  
      Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):  
Whitmire Research Labs, Inc.  
3568 Tree Court Ind. Blvd.  
St. Louis, MO 63122

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is unconditionally registered in accordance with FIFRA sec. 3(c)(5).

Make the following label changes to the labeling before releasing the product for shipping:

- a. Revise the EPA Registration Number to read, "EPA Reg. No. 499-426".
- b. Under Flea Control, change the statement, "Prepare a diluted solution by adding 1.5 ounces per gallon of water." to read "Prepare a diluted solution by adding 1 ounce per gallon of water."

Signature of Approving Official:  
  
RPK

Date:  
18 JUN 1996

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Submit two (2) copies of the revised final printed label before you release the product for shipping.

If the final printed labeling is not received prior to shipment of this product, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these requirements.

A stamped copy of the label is enclosed for your records.

Sincerely,

RPK

Richard P. Keigwin, Jr.  
Product Manager 10  
Insecticide & Rodenticide Branch  
Registration Division (7505C)



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Whitmire

TC 114

Emulsifiable Concentrate  
Contains NyLar®\*

KILLS IMMATURE STAGES OF: Cockroaches and Fleas

FOR USE IN AND AROUND: Animal Quarters (enclosed premise treatment), Apartments, Atriums, Attics, Bathrooms, Basements, Bedrooms, Cabinets, Cabins, Campers, Carpet, Cat Living [Sleeping] Quarters (enclosed premise treatment), Chests, Closed Porches, Closets, Clothes Storage, Commercial Buildings, Condominiums, Crawl Spaces, Crematoriums, Day Care Centers, Decks, Dens, Dog Houses, Dog Living [Sleeping] Quarters, Dog Kennel Runs, Dormitories, Draperies, Dressers, Fabric Storage Areas, Factories, Floors, Funeral Parlors, Furniture, Garages, Garbage Areas, Garbage Cans, Gazebos, Homes, Hospitals, Hotels, Industrial Plants, Institutions, Jails, Kennels, Lanais, Living Rooms, Locker Rooms, Mausoleums, Mobile Homes, Morgues, Mortuaries, Motels, Nursing Homes, Office Buildings, Other Public Buildings, Pantry, Patios, Pet Bedding, Pet Carriers, Pet Grooming Parlors, Pet Sleeping Areas, Pet Stores, Pet Quarters (enclosed premise treatment), Play Houses, Play Rooms, Porches, Prisons, Recreational Areas Indoors, Recreation Vehicles, Rooms, Rugs, Schools, Shutters, Side Yards, Solariums, Storage Areas, Sun Rooms, Sun Porches, Theaters, Town House, Trailers, Trains, Tree Houses, Upholstered Furniture, Utility Room Indoor, Utility Room Outdoor, Verandas, Veterinaries, Warehouses, Washrooms.

ACTIVE INGREDIENT:

Pyriproxyfen [2(1-Methyl-2-(4-phenoxyphenoxy) ethoxy) pyridine] ..... 1.3%  
INERT INGREDIENTS ..... 98.7%

\*NYLAR® - Registered trademark of McLaughlin Gormley King Co.

EPA Reg. No. 499-xxx

EPA Est. No. 499-MO-1

ACCEPTED  
with COMMENTS  
in EPA Letter Dated

KEEP OUT OF REACH OF CHILDREN

18 JUN 1956

CAUTION

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

STATEMENT OF PRACTICAL TREATMENT

499-426

IF IN EYES: Flush with plenty of water. Get medical attention if irritation persists.

IF SWALLOWED: Call a physician or Poison Control Center immediately. Do not induce vomiting.

IF ON SKIN OR CLOTHING: Remove contaminated clothing and wash before reuse. Wash skin with soap and warm water. Get medical attention if irritation persists.

See side panel for additional precautionary statements.

NET WEIGHT:

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## DIRECTIONS FOR USE

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

### READ ALL DIRECTIONS COMPLETELY BEFORE USE

For best results, follow directions for specific use areas. Do not use this product in or on electrical equipment due to possibility of shock hazards. Avoid excessive wetting of carpet, draperies and furniture. Always test in an inconspicuous [hidden] area prior to use as some natural and synthetic fibers may be adversely affected by any liquid product.

### FOR FLEA CONTROL:

The active ingredient in this concentrate is pyriproxyfen, an insect growth regulator. Pyriproxyfen is similar to insect growth hormones that occur naturally in insects and act on the immature life stages of the flea, preventing the adult flea from developing. Flea eggs deposited on treated areas will not develop into adult fleas. Flea larvae crawling onto treated surfaces will also not develop into adult fleas. The unique properties of TC 114 eliminates the flea population, when used as directed. TC 114 causes a gradual reduction and ultimate elimination of the flea population by breaking the reproductive cycle. TC 114 stops the flea life cycle and inhibits the development of the immature stages of the flea for 7 months preventing them from reaching the biting adult stage. Existing adult fleas and flea pupae are not affected.

If a high population of adult fleas are present, the use of an adulticide may be necessary for immediate relief. This concentrate may also be combined with a flea adulticide. TC 114 compliments the rapid activity of the adulticide by providing long term control of preadult fleas before they grow up to be biting adults.

Flea control on pets is important in the prevention of the introduction of adult fleas. Pets, their bedding and the areas they frequent should also be treated with EPA registered flea and tick control products, flea or flea and tick collar, pet powder, pet spray, pet dip, pet shampoo, flea shampoo or flea and tick shampoo, as part of a complete flea control program in conjunction with this application to minimize the introduction of adult fleas.

TC 114 can be used prior to the flea season. Application of this product, in areas where pets and other animals are known to frequent and where previous infestations have been known to occur, will prevent the emergence of adult fleas and also control stages of fleas that don't resemble fleas. This early usage could reduce the need for conventional insecticides when used alone as directed. Pretreatment of these areas before the fleas become biting and reproductive adults will aid in reducing developing populations.

### INDOORS:

Prior to treatment, carpets, draperies and upholstered furniture should be vacuumed thoroughly and the vacuum cleaner bag disposed of in an outdoor trash receptacle.

INSTRUCTIONS FOR USE: TC 114 is intended to be mixed with water and applied with spray equipment such as any low pressure sprayer typically used for indoor applications.

SPRAY PREPARATION: Prepare a diluted spray solution by adding 1.5 ounces per gallon of water. Partially fill the mixing container with water, add TC 114, agitate and fill to final volume. Do not allow spray mixture to stand overnight. Mix before each use.

IN CONJUNCTION WITH AN ADULTICIDE INSECTICIDE: TC 114 Concentrate may be combined with an insecticide registered for adult control of fleas. The combination would provide immediate relief of adult fleas and inhibit the development of the immature stages of the flea for 7 months. This application should conform to accepted use precautions and directions for both products. Use TC 114 at application rates specified above.

GENERAL SURFACE APPLICATION:

Apply TC 114 diluted spray at the rate of 1 gallon per 1,500 square feet of surface area. Treat all areas which may harbor fleas, including carpets, furniture, pet sleeping areas and throw rugs. Treat under cushions of upholstered furniture. Do not allow children or pets to contact treated surfaces until spray has dried. Repeat as necessary.

IN KENNELS AND DOGHOUSES:

Treatment of these areas will control the development of preadult fleas from becoming biting and reproductive adult fleas. Using an adjustable hose-end sprayer, tank type sprayer or sprinkling can, prepare a diluted spray solution by adding 1.5 ounces per gallon of water. Partially fill the sprayer with water, add required amount of concentrate in sprayer, agitate and fill to final volume. Agitate before each spray. Do not allow the spray mixture to stand overnight.

Apply at a rate of 1 gallon diluted solution per 1,500 square feet of surface area. Apply to building, resting areas, walls, floor, animal bedding and run areas. Remove animals before spraying and do not return animals to treated areas until spray has dried completely. Pets and their bedding should also be treated with EPA registered flea and tick control products, flea or flea and tick collar, pet powder, pet spray, pet dip, pet shampoo, flea shampoo or flea and tick pet shampoo, in conjunction with this application as part of a complete flea control program to prevent the introduction of adult fleas. Repeat as necessary.

FOR GERMAN, ASIAN, AND BROWN BANDED COCKROACH CONTROL:

The active ingredient in this concentrate is pyriproxyfen, an insect growth regulator. Pyriproxyfen is similar to insect growth hormones that occur naturally in insects and acts on the immature life stages of the cockroach preventing nymphal cockroaches from developing into adults. Shortly after application of this concentrate, cockroaches with twisted wings will begin to appear indicating that TC 114 has taken effect - those cockroaches with twisted wings are unable to reproduce. The unique properties of TC 114 eliminates the cockroach population, when used as directed. One treatment works for 6 months against hatching cockroaches.



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If a high population of adult cockroaches are present, the use of an adulticide may be necessary for immediate relief. TC 114 causes a gradual reduction in the cockroach population by interrupting the life cycle of the cockroach and preventing the cockroaches from breeding. This concentrate may also be combined with a cockroach adulticide. TC 114 compliments the rapid activity of the adulticide by providing long term control of cockroach nymphs before they become breeding adults.

#### INDOORS:

**INSTRUCTION FOR USE:** TC 114 is intended to be mixed with water and applied with spray equipment such as any low pressure sprayer typically used for indoor applications.

**SPRAY PREPARATION:** Prepare a diluted spray solution by adding 2 ounces per gallon of water. Partially fill the mixing container with water, add TC 114, agitate and fill to the final volume. Agitate before each spray. Do not allow spray mixture to stand overnight.

#### IN CONJUNCTION WITH AN ADULTICIDE INSECTICIDE:

TC 114 Concentrate may be combined with an insecticide registered for adult control of cockroaches. The combination would provide immediate relief of adult cockroaches and inhibit the development of the immature stages of the cockroach for 6 months. This application should conform to accepted use precautions and directions for both products. Use TC 114 Concentrate at application rates specified above.

#### GENERAL SURFACE APPLICATION:

**COCKROACHES** Brown Banded Cockroach, Asian Cockroach, German Cockroach, and Cricket: Apply diluted spray at the rate of 1 gallon per 1,000 square feet of surface area as a spot treatment, surface application and crack and crevice spray. Contact as many insects as possible with this spray in addition to thorough spraying of all parts of the room suspected of harboring these pests. Special attention should be paid to hiding places such as beneath sinks, behind and beneath stoves and refrigerators, cracks and crevices, around garbage cans, cabinets, along the outside of baseboards, door and window sills, door and window frames and floors, around and on drains, pipes, plumbing, behind bookcases, storage and other utility installation areas, infested furniture and the inside of cabinets and closets hitting insects with spray whenever possible. Repeat as necessary.

**NOTE: NOT LABELED FOR USE IN FOOD AREAS OF FOOD HANDLING ESTABLISHMENTS**

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SPOT AND CRACK AND CREVICE APPLICATIONS: Apply TC.114 diluted spray solution using a pressurized spray system capable of delivering a pin-point or variable spray pattern. Crack and Crevice applications may be made directly to areas such as but not limited to crevices, baseboards, floors, ceilings, walls, expansion joints, molding, areas around water and sewer pipes, voids where pests can hide and similar areas. Spot treatments may also be made to areas including but not limited to storage areas, closets, around water pipes, doors and windows, behind and under refrigerators, cabinets, sinks, stoves and other equipment, shelves, drawers and similar areas.

WAREHOUSES: TC 114 may be applied as a general surface fogger, spot or crack and crevice treatment in nonfood storage warehouses or in warehouses where stored food items are limited solely to either bottled or canned items, so that food contact is not anticipated. Apply to all areas that may harbor pests, including under and between pallets.

### STORAGE AND DISPOSAL

STORAGE: Store in a cool, dry place. Keep container closed.

DISPOSAL: Do not reuse empty container. Wrap container in several layers of newspaper and discard in garbage.

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### CAUTION

Harmful if swallowed or absorbed through skin. Do not breathe vapors or spray mist. Avoid contact with skin or eyes. In case of contact, flush with plenty of water. Wash with soap and warm water after use. Obtain medical attention if irritation persists. Avoid contamination of food or feedstuffs.

### PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

A Prescription Treatment® brand insecticide from:  
Whitmire Research Laboratories, Inc.  
3568 Tree Court Ind. Blvd.  
St. Louis, Missouri 63122  
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