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45385-95

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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg. Number:
45385-95

Date of Issuance:
FEB 28 1996

NOTICE OF PESTICIDE:
 X Registration
 Reregistration

Term of Issuance: Until
Reregistration

Name of Pesticide Product:
Chem-Tox Residual
Insecticide
Concentrate

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

CTX, Incorporated
481 Scotland Road
McHenry, Illinois 60050

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 right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
2. Make the following label changes:
 - a. Revise the EPA Registration Number to read, "EPA Reg. No. 45385-95."
 - b. Immediately below the product name on the front panel add the restrictive phrase, "To be applied by or under the direct supervision of commercial applicators responsible for insect control programs."
 - c. The first statement below the restrictive phrase (in paragraph b. above) must read "Contains pyrethrins for quick knockdown and flushing and chlorpyrifos for residual action."

Signature of Approving Official:

DHE

Dennis H. Edwards, Jr.
Product Manager (19)
Insecticide-Rodenticide Branch
Registration Division (7505C)

Date:

2075

d. In the Physical Or Chemical Hazards section add the sentence, "Do not use around electrical equipment."

e. The last sentence in the directions for the control of Fleas and Brown Dog Ticks must be revised to, "To prevent reinfestation pets should be treated using an insecticide registered for this use."

3. Submit two copies of the revised final printed label for the record.

If these conditions are not complied with, 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 conditions.

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

Sincerely yours,



Dennis H. Edwards, Jr.
Product Manager (19)
Insecticide-Rodenticide Branch
Registration Division (7505C)

Enclosure

4245

SPRAY DILUTION CHART

| Gallons of Spray Mixture desired | Fluid ounces* of concentrate to make | |
|----------------------------------|--------------------------------------|-------------|
| | 0.25% | 0.50% Spray |
| Water-Base Spray | | |
| 1 | 1 | 2 |
| 3 | 3 | 6 |
| 5 | 5 | 10 |
| 10 | 10 | 20 |
| Oil Base Spray** | | |
| 1 | 3/4 | 1 1/2 |
| 3 | 2 1/4 | 4 1/2 |
| 5 | 3 2/3 | 7 1/3 |
| 10 | 7 1/4 | 14 1/2 |

*Note: 1 fluid ounce - 2 tablespoonsful or 6 teaspoonful.
 **Calculated on basis of deodorized kerosene.

Apply in small amounts directly into cracks and crevices using equipment capable of delivering a pin stream of insecticide. For spot treatment, apply as a coarse low pressure (20 psi or less) spray to localized areas, in points between different elements of construction, between equipment and floor, openings leading to voids and hollow spaces in walls, equipment legs and bases

Care should be taken to avoid depositing the product onto exposed surfaces or introducing the material into the air. Avoid contamination of food and food processing surfaces.

APPLICATION OF THIS PRODUCT IN THE FOOD AREAS OF FOOD HANDLING ESTABLISHMENTS OTHER THAN AS A SPOT AND/OR CRACK AND CREVICE TREATMENT IS NOT PERMITTED.

SERVING AREAS: Facilities where foods are served such as dining rooms, but excluding areas where foods may be prepared or held, apply as a spot treatment to selected surfaces, such as baseboards, under elements of construction and into cracks and crevices. Avoid treating surfaces likely to be contacted by food. (Do not apply when facility is in operation or foods are exposed).

APPLICATION IN NON-FOOD AREAS OF INSTITUTIONS, RESTAURANTS, FOOD PROCESSING PLANTS, OFFICE BUILDINGS, AND IN AND AROUND HOMES: Includes garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets, and storage (after canning or bottling). Apply as spot treatment to baseboard areas, around water pipes, surfaces behind and beneath sinks, lockers, tables, pallets, and similar areas where insects hide or through which they may enter. Repeat treatment as required.

INDOOR PESTS: General Information: Use this product as a spot treatment to control *Cockroaches, Ants, Crickets, Firebrats, Silverfish, Spiders, Confused Flour Beetles, Sawtoothed Grain Beetles, Indianmeal Moths, Rice Weevils, Mediterranean Flour Moths, And Red Flour Beetles* in and around residential, institutional, industrial and commercial buildings, including homes, apartment buildings, hospitals, stores, manufacturing plants and warehouses. Use a 0.25% spray to quickly reduce heavy infestations. For spot treatment, apply as a coarse spray or with a paint brush to localized areas where these pests are found or normally occur, including dark corners of rooms and closets; cracks and crevices in walls; along and behind baseboards; beneath and behind sinks, stoves, refrigerators, and

cabinets; around plumbing and other utility installations. For ants, apply to ant trails, also around doors and windows and wherever else these pests may find entrance.

FLEAS AND BROWN DOG TICKS: Thoroughly apply 0.5% spray as a spot treatment to infested areas such as pet beds and resting quarters; nearby cracks and crevices; along and behind baseboards, windows and door frames and localized areas of floor and floor covering where these pests may be present. Old pet bedding should be removed and replaced with clean fresh bedding after treatment. Repeat treatment as necessary. Do not treat pets with this product. Pets should be treated using an approved insecticide to prevent reinfestation.

WARNING (PESTS INDOORS): Do not allow children or pets to contact treated surfaces until spray has dried. Remove pets and cover fish aquaria before spraying. Do not allow spray to contact foods, foodstuffs, and water supplies. Thoroughly wash dishes and food handling utensils and surfaces with soap and water if they become contaminated by application of this product.

ANIMAL QUARTER USE (KENNELS, CATTLE BARN, HORSE BARN, POULTRY HOUSES, SWINE HOUSES, ZOOS, MILKING PARLORS, MILK ROOMS, AND DAIRIES: Use this product as a surface treatment to control *Cockroaches, Ants, Crickets, Firebrats, Silverfish, And Spiders* and to aid in reducing annoyance from *Flies, Wasps, Small Flying Moths, Mosquitoes And Gnats*. Using the 0.50% spray, apply as a coarse spray or with a paintbrush to localized areas where these pests are found or normally occur, including corners, cracks and crevices in walls, along and behind baseboards, beneath and behind equipment, around plumbing and other installations. Also treat surfaces around light fixtures, window and door frames, and other places where flying insects alight or congregate.

WARNING (ANIMAL QUARTER USE): Do not allow spray to contact foods, foodstuffs, and water supplies. Thoroughly wash food or feed handling equipment and surfaces with soap and water if they become contaminated by application of this product. Do not treat animals or poultry with this product. Do not use as a space spray. In zoos, avoid exposure of reptiles to the product.

OUTDOOR USE

PESTS OUT OF DOORS, General Information: Pests of lawn and other ornamental recreational turf grass areas. Use this product to control *Ants, Brown Dog Ticks, Chinch Bugs, Crickets, Cutworms, Earwigs, Grasshoppers, And Sod Webworms (Lawn Moths)*. Mix this concentrate with water according to directions given in the following table and apply as a coarse, low pressure spray. For best results, the lawn should be moist at time of treatment and care should be taken to obtain complete and uniform coverage of infested areas. Spray when pests first appear. Repeat when needed.

DOSAGE AND DILUTIONS FOR USE ON TURF

| Area to Be Treated | Amount of Concentrate | Dilute With Water to Give |
|--------------------|-----------------------|---------------------------|
| 170 sq. ft. | 1/4 fl. oz. (6.6 ml) | 5 gallons |
| 500 sq. ft. | 2/3 fl. oz. (20 ml) | 15 gallons |
| 1,000 sq. ft. | 1 1/3 fl. oz. | 30 gallons |
| 5,000 sq. ft. | 5 1/2 fl. oz. | 150 gallons |
| 10,000 sq. ft. | 11 1/2 fl. oz. | 325 gallons |
| One Acre | 1 1/2 qts. | 1,000 gallons |

BEST AVAILABLE COPY

TO CONTROL CERTAIN WHITE GRUBS (LARVAE OF EUROPEAN CHAFFER AND JAPANESE BEETLE): Use two to four times the amount of this concentrate shown in the Turf Table, i.e. 2 1/4 to 4 1/2 fl. oz. per 1,000 sq. ft. or 3 or 6 quarts per acre. Apply in enough water to obtain uniform coverage, followed by thorough watering to wash the insecticide into the turf. For best results, treat when grubs are young and actively feeding near the soil surface, usually during late July and August. Consult your local Agricultural Extension Service Specialist for proper times to treat in your area.

TO CONTROL TURFGRASS (HYPERODES) WEEVILS: Use twice the amount of this product shown in the Turf Table (i.e. 3 quarts diluted in 1,000 gallons of water per acre, or 1/2 ounce in 5 gallons per 166 sq. ft.). Spray suspected problem areas in mid-April and again in mid-May. Consult your local Agricultural Extension Service Specialist for proper time to treat your area. Note: To help prevent infestation of buildings by *Ants, Crickets, Earwigs And Sowbugs (Pillbugs)*: Treat a band of soil 6 to 10 feet wide around and adjacent to the building, and treat the building foundation to a height of 2 to 3 feet, where pests are active and may find entrance. Use the same dosage and dilution recommended for control of these pests as shown in the Turf Table. Apply as a coarse spray to thoroughly and uniformly wet the band areas.

PESTS OF ORNAMENTALS: Use this product to control *Aphids, Bagworms, Cutworms, Grasshoppers, Leafhoppers, Mealybugs, Mites, Spittlebugs, Thrips (exposed), Whiteflies, Eastern Tent Caterpillars, Yellownecked Caterpillars, Milmosa Webworms, Ash Borers, Lilac Borers, Dogwood Borers, Oak Lecanium Scales, Pine Needle Scales, Tea Scales And White Peach Scales* on flowers, shrubs, vines, shade trees, flowering trees and evergreens found to be infested with these pests. Dilute this product according to directions given in the following table and apply with suitable hand or power spray equipment to provide complete and uniform coverage of infested plants. Avoid overspraying to a point of excessive coverage of infested plants. Avoid overspraying to a point of excessive runoff. Treat when pests appear and repeat at 7 to 10 day intervals, if needed. Note: Do not use on Azaleas, Camellias, Poinsettias, Rose Bushes or Variegated Ivy because of possible injury to these plants.

DOSAGE AND DILUTIONS FOR USE ON ORNAMENTAL PLANTS

| Pests Controlled | Amount of Concentrate In water to Make | | |
|--|--|---------------|-----------------|
| | 3 Gallons | 10 Gallons | 100 Gallons |
| Aphids Bagworms Eastern Tent Caterpillars Grasshoppers Mites Spittlebugs Whiteflies Yellownecked Caterpillars Cutworms Leafhoppers Mealybugs Milmosa Webworms Thrips (exposed) | 1/3 fl. oz. | 1 1/4 fl. oz. | 12 1/2 fl. oz.* |
| | 2/3 fl. oz. | 2 1/2 fl. oz. | 23 fl. oz.** |

| Pests Controlled | Amount of Concentrate In water to Make | | |
|---|--|---------------|--------------|
| | 3 Gallons | 10 Gallons | 100 Gallons |
| †Ashborers †Dogwood Borers †Lilac Borers †Scale Crawlers; †Oak Lecanium †Pine Needle †Tea †White Peach | 1 1/3 fl. oz. | 4 1/2 fl. oz. | 44 fl. oz.** |

*Equivalent to 4 oz. of chlorpyrifos per 100 gallons.
 **Equivalent to 8 oz. of chlorpyrifos per 100 gallons.
 ***Equivalent to 1 pound of chlorpyrifos per 100 gallons.
 †These insect control claims not registered in California.

NOTE: Mosquitoes coming to rest on areas treated for control of turf and ornamental plant pests will be killed for varying periods of time after treatment, depending on exposure of treated areas to weathering conditions.

WARNING (LAWN AND ORNAMENTAL PLANT PESTS): Keep children and pets off treated areas until spray has dried. Keep out of lawn and garden fishpools and other bodies of water. Fish may be killed if their waters are contaminated with this product. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated.

AREA CONTROL OF TICKS: Use this product to control *Ticks* infesting non-crop land areas such as roadsides, footpaths and trails, picnic and camping sites, parks and other recreational areas where these pests are present and create a nuisance or possible health hazard. Apply this concentrate in water at the rate of 24 fl. oz. per acre (equivalent to 1 1/2 fl. oz. per 2,700 sq. ft., or 0.6 ounces (16.5 ml) per 1000 sq. ft.) using a hydraulic sprayer, mist applicator, knapsack sprayer or other suitable hand or power spray equipment. Treat low underbrush, grassy areas, weeds, ground surface and debris using enough spray volume to obtain thorough coverage, usually 40 to 100 gallons per acre, or 1 to 3 gallons per 1000 sq. ft.

WARNING (AREA CONTROL OF TICKS): Do not allow public use of treated areas during application or until spray has dried. Do not apply when weather conditions favor drift from treated areas. Do not apply where runoff into lakes, streams, ponds or other bodies of water is likely to occur. Fish and crustaceans may be killed if their waters are contaminated with this product.

FLIES, MOSQUITOES, WASPS, GNATS AND SMALL FLYING MOTHS, OUTDOORS: For outdoor use as an aid in reducing annoyance from these insects. Using the 0.50% spray, apply to outside surfaces of screens, doors, window frames or wherever these insects may enter the room. Also treat surfaces around light fixtures on porches, in garages and sheds, and other places where these insects alight or congregate.