

US ENVIRONMENTAL PROTECTION AGENCY  
OFFICE OF PESTICIDES PROGRAMS  
REGISTRATION DIVISION (75-767)  
WASHINGTON, DC 20460

EPA REGISTRATION NO.

45385-69

DATE OF ISSUANCE

JUN 30 1989

NOTICE OF PESTICIDE:  REGISTRATION  
 REREGISTRATION  
(Under the Federal Insecticide, Fungicide,  
and Rodenticide Act, as amended)

TERM OF ISSUANCE

Until Reregistration

NAME OF PESTICIDE PRODUCT

Perma-Tox Insecticide P.C.

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Chem-Tox, Inc.  
21 North 988 Pepper Road  
Barrington, IL 60010

161/234493  
18/2

NOTE: Changes in labeling formula 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 U.S. 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.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this 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.

As product is conditionally registered in accordance with FIFRA section 3(c)(7)(D) provided that you:

1. Submit/cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Make the labeling changes listed below before you release the product for shipment:
  - a. Add the phrase "EPA Registration No. 45385-69."
  - b. Delete "Perma-Tox" from the product name. Claims which imply total eradication or elimination of pests, i.e., 100% Effective, Rid, Eliminates, are not acceptable.
3. Submit a copy of the U.S. Department of Agriculture authorization for use of your product in Federally inspected meat and poultry plants.
4. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

DATE

6/30/89

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 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.

George T. LaRocca  
Product Manager (15)  
Insecticide-Rodenticide Branch  
Registration Division (H7505C)

Enclosures

# CHEM-TOX PERMA-TOX INSECTICIDE

Recommended for use by Commercial Applicators

AN INSECTICIDE OFFERING RESIDUAL KILL OF CRAWLING INSECTS FOR UP TO 4 WEEKS

## ACTIVE INGREDIENT

+ Permethrin (3-phenoxyphenyl) methyl(+) Cis,trans-3-(2,2-d chloro-  
ethenyl)-2,2-dimethylcyclopropanecarboxylate 13.30% w/w

## # INERT INGREDIENTS

86.70%

contains 1 lb/gal (120g/l)

100.00% w/w

+ U.S. Patent No. 4,024,163

\* Cis/trans isomers ratio min 35% (+) cis and max 65% trans

# Contains xylene range aromatic solvent

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

JUN 30 1989

Permethrin Insecticide,  
100% Concentrate,  
100% Concentrate,  
100% Concentrate,  
registered under EPA Reg. No.

45385-69

## KEEP OUT OF REACH OF CHILDREN WARNING

See side panel for additional precautionary statements

EPA REG NO 45385-69

net content \_\_\_\_\_

EPA EST No 45385-1L-01  
CHEM-TOX, Inc.  
Pepper Rd.  
Barrington, IL 60010

## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS

Causes eye irritation. Do not get in eyes. Avoid contact with skin or clothing. Harmful if swallowed. Avoid breathing vapor. Wash thoroughly after handling. For Space Spraying Indoors, wear NIOSH or MSHA approved respiratory protection device.

### STATEMENT OF PRACTICAL TREATMENT

If swallowed: call a physician or Poison Control Center. Do not induce vomiting. This product contains aromatic petroleum solvent. Aspiration may be a hazard. If in eyes: Flush with plenty of water. Get medical attention. If on skin: Wash with soap and plenty of water. Get medical attention if irritation persists.

### ENVIRONMENTAL HAZARDS

This product is extremely toxic to fish. Do not apply directly to any body of water. Do not contaminate water when disposing of equipment washwaters. Apply this product only as specified on this label.

### PHYSICAL AND CHEMICAL HAZARDS

Do not use or store near heat or open flame. Flashpoint minimum of 105°F (41°C)

## DIRECTIONS FOR USE

IT IS A VIOLATION OF THE FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING

### STORAGE & DISPOSAL

Do not contaminate water, food or feed by storage or disposal. STORAGE: Store product in original container in a locked storage area. PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

BEST AVAILABLE

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## CHEM-TOX PERMA-TOX

((BACK PANEL))

FOR USE IN NON-FOOD AREAS INDOORS AND OUTSIDE PREMISES OF HOTELS, HOMES, PRESCHOOLS, NURSERIES, DAY CAMPS, GREENHOUSES, LATHHOUSES, SEED HOUSES, FOOD HANDLING ESTABLISHMENTS, PACKAGING AND PROCESSING PLANTS, COMMERCIAL, INDUSTRIAL, OFFICE, INSTITUTIONAL AND STORAGE BUILDINGS, DAIRIES, MILK STORAGE ROOMS, EGG PROCESSING PLANTS, SUPERMARKETS, RESTAURANTS, BOTTLING PLANTS, CANNERIES, FLOUR AND FEED MILLS, BAKERIES, AND HOSPITALS. IN HOSPITALS, PATIENTS SHOULD BE REMOVED PRIOR TO TREATMENT. ALSO FOR USE IN DOG KENNELS AND HORSE STABLES. IN HORSE STABLES, NOT FOR APPLICATION IF HORSES WILL BE USED FOR FOOD.

Do not use in food areas of food handling establishments, restaurants or other areas where food is commercially prepared or processed. Do not use in serving areas while food is exposed or facility is in operation. Serving areas are areas where prepared foods are served such as dining rooms but excluding areas where foods may be prepared or held.

Nonfood areas are areas such as 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).

One gallon of finished spray is sufficient to treat 1580 linear feet (482 m) with 6 inch (15.2 cm) spray band. For contact and residual sprays, mix PERMA-TOX with water in the following manner:

### FINISHED SPRAY

### CHEM-TOX PERMA-TOX

|       |                                              |
|-------|----------------------------------------------|
| 0.25% | 2-2/3 OZ OR 79 ML IN 1 GAL OR 3.79 L WATER   |
| 0.25% | 2/3 OZ OR 20 ML IN 1 QUART OR 0.95 L WATER   |
| 0.50% | 5-1/2 OZ OR 163 ML IN 1 GAL OR 3.79 L WATER  |
| 0.50% | 1-1/3 OZ OR 39 ML IN 1 QUART OR 0.95 L WATER |

For heavy infestations, use the 0.50% dilution, for lighter infestations and for maintenance purposes, use the 0.25% dilution.

### INDOOR PEST CONTROL

For residual and contact control of cockroaches (waterbugs), crickets, silverfish (firebrats), clover mites, millipedes, centipedes, earwigs, sowbugs (pillbugs), spiders, brown dog ticks, lone star ticks, ants, fire ants, clothes moths, carpet beetles, fleas, boxelder bugs, scorpions, spider beetle, bed bugs, grasshoppers, house flies, mosquitoes, gnats, fruit flies, cluster flies, flying moths, confused flour beetles, saw-toothed grain beetles, shiny spider beetles, grain mites, red flour beetles, angoumois grain moths, grain weevils, Indian meal moths, Mediterranean flour moths, lesser grain borers, cigarette beetles, drug store beetles, chocolate moths. Spray thoroughly into hiding places such as cracks, crevices, moist areas, openings around pipes and sinks, under refrigerators, baseboards and storage areas. Spray directly on insects where possible.

**FOR BED BUGS:** Apply as a spot treatment to cracks and crevices, around baseboards, floorboards, bedboards and walls. First, thoroughly clean and air mattresses and springs. Then spot treat only areas that may harbor bedbugs, concentrating on tufts, folds and seams. Allow all treated articles to dry thoroughly before use.

**GRAIN INSECTS:** To control confused flour beetles, saw-toothed grain beetles, spider beetles, shiny spider beetles, grain mites, red flour beetles, angoumois grain moth, grain weevil, Indian meal moth, Mediterranean flour moths, lesser grain borers, cigarette beetles, drug store beetles, chocolate moths, carpet beetles - remove infested grain, cereal or flour and destroy. Avoid contamination of other food and foodstuffs in the area by removing before spraying. Spray directly on exposed stages and into cracks and crevices where grain insects may be hiding. In homes, dispose of all infested products. The shelves and drawers should be cleaned and thoroughly sprayed so as to contact all pests, and covered with shelf paper after allowing shelves to dry. Any utensils that are contacted with spray should be washed before using. Repeat as necessary.

**SPIDERS:** Spray directly on these pests and use repeated applications to the webbing and all cracks and crevices which harbor spiders.

**ANTS (including FIRE ANTS):** To kill ants, spray trails, nests and points on entry within buildings and homes. Spray directly on ants where possible. Repeat as necessary.

**WASPS, HORNETS, YELLOW JACKETS, BEES:** Application should be made in the late evening when insects are at rest. Spray liberally into hiding and breeding places, especially under attic rafters, contacting as many insects as possible. Repeat as necessary.

**FLEAS, BROWN DOG and LONE STAR TICKS on DOGS, CATS, and PREMISES:** Spray animal's ribs, back, under forelegs and on other areas, except scrotum, face and anus. Part hair to contact skin and insure good coverage. Hold spray about one foot (30 cm) away while spraying. Apply until hair is thoroughly moist. Do not spray directly in eyes, mouth or nose on animal. To prevent reinfestation, thoroughly spray the animals bedding and other resting areas until the surface is thoroughly moist, contacting as many insects as possible. Treat the floor areas, cracks and crevices in the floor and along baseboards at the rate of 2 seconds per linear foot (30 cm) at a distance of 12 to 18 inches (30-45 cm). Also spray the entire inside surface of dog houses.

**BEST AVAILABLE COPY**

## CHEM-TOX PERMA-TOX

(( (BACK PANEL) ))

**HOUSE FLIES, MOSQUITOES, CLUSTER FLIES, GNATS, FRUIT FLIES, FLYING MOTHS** - Close off all doors and windows. Point sprayer upward. Direct spray mist to all parts of the room, especially windows and other light sources which may attract these insects. Fill the room with mist, then leave the treated area. Keep the room closed for at least 15 minutes. Ventilate the room when treatment is completed.

**CARPET BEETLES AND CLOTHES MOTHS** - To treat carpets, hold container 14-18 inches (36-46 cm) from carpet. Apply spray evenly, covering the entire surface until slightly moist. Spray underside of carpet when possible. Avoid wetting or soaking. To treat garments, blankets, carpets and other fabrics before storage. Dry clean or wash before treatment and after storage. Apply spray evenly, covering the material on both sides until slightly moist. For best results, place treated materials in plastic bags after drying, and store in dark place. Also spray floor and baseboards, closets, cracks, crevices, infested areas of shelving and/or wherever these insects are seen or suspected.

### OUTDOOR PEST CONTROL

**PEST ON OUTSIDE SURFACE OF BUILDINGS** - Use this product to control ants, clover mites, crickets, earwigs, millipedes, and sowbugs (pillbugs) on outside surface of buildings. To help prevent infestation of buildings, treat the building foundation to a height of 2 to 3 feet (0.5 to 1 m), where pests are active and many find entrance. Also, apply as a residual spray to outside surfaces of buildings, including porches, screens, window frames, eaves, patios, garages, refuse dumps, and other areas where these pests congregate or have been seen. Repeat treatment as needed to maintain effectiveness.

**HOUSE FLIES, MOSQUITOES, CLUSTER FLIES, GNATS, FLYING MOTHS** - For outdoor use only as an aid in reducing annoyance from these insects. Spray outside surface of screens, doors, window frames, etc. wherever these insects may enter the room. Also treat surface around light fixtures on porches, in garages, and other places where these insects might congregate. Repeat as necessary.

**ANTS, LONE STAR TICKS, CRICKETS, FLEAS AND EARWIGS** - For treatment of localized infestations of these insects in outdoor areas where there are weeds or brushy non-crop areas, spray infested areas thoroughly. For ants, thoroughly wet hills and runways. Repeat application as infestation warrant and as reinfestation occur.

**HORNETS, YELLOW JACKETS, BEES** - Application should be made in 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.

**TO CONTROL FIRE ANTS** - Dilute 2 tablespoons (30 ml) of this product in 1 gal (3.79 L) of water. Apply 1 gal (3.79 l) of solution as a gentle rain to each fire ant mound using a sprinkler can. Thoroughly wet the mound and surrounding area to a 4 foot diameter (1.22m). For best results, apply in cool weather, 65-80°F (18-27°C), or in early morning or late evening hours. Treat new mounds as they appear. Do not disturb the mound prior to treatment. If possible, treat all mounds in the vicinity, and treat all colonies which may not as yet have constructed a mound. Larger quantities of solution can be prepared for multiple mound treatments. Equipment to deliver the diluted product as a gentle rain at the rate of 1 gal (3.79 l) per mound is still required. Do not use equipment that produces a pressurized spray as pressurized sprays may disturb fire ants and cause migration, reducing product effectiveness.

### WARRANTY STATEMENT

Our recommendation for the 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. The buyer must assume all responsibility, including injury or damage, resulting from its misuse as such, or in combination with other materials.