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| <b>U.S. ENVIRONMENTAL PROTECTION AGENCY</b><br><b>OFFICE OF PESTICIDES PROGRAMS</b><br><b>REGISTRATION DIVISION (WH-567)</b><br>WASHINGTON, D.C. 20460  |  | EPA REGISTRATION<br><b>10182-95</b>  | DATE OF ISSUANCE<br><b>MAR 18 1987</b> |
| <b>NOTICE OF PESTICIDE:</b> <input type="checkbox"/> REGISTRATION <input type="checkbox"/> REREISTRATION<br>(Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended)   |  | TERM OF ISSUANCE<br><br>NAME OF PESTICIDE PRODUCT<br><p style="text-align: center;"><b>TORPEDO Insecticide</b></p> |  |
| NAME AND ADDRESS OF REGISTRANT (Include ZIP code) <div style="text-align: right; margin-top: 20px;">           186 / 193625<br/>           18         </div> <div style="margin-top: 20px;"> <p>ICI Americas, Inc.</p> <p>Agricultural Chemicals Division</p> <p>Concord Pike and New Murphy Road</p> <p>Wilmington, DE 19897</p> </div>  |  |  |  |
| <p><b>NOTE:</b> 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.</p>  |  |  |  |
| <p>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.</p> <p>A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.</p> <p>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.</p> <p>This product is conditionally registered in accordance with FIFRA section 3(c)(3)(A) provided that you:</p> <ol style="list-style-type: none"> <li>1. Submit/cite all data required for registration/re-registration of your product under FIFRA section 3(c)(3) when the Agency requires all registrants of similar products to submit such data.</li> <li>2. Make the labeling changes listed below before you release the product for shipment:             <ol style="list-style-type: none"> <li>a. Add the phrase "EPA Registration No. 10182-95"</li> <li>b. The label goes to "EPA Registration No. 10182-95" and the effectiveness of the product is not to be used in the control of termites and the efficiency of the product is not to be used in the product labeling.</li> <li>c. Delete all references to the control of termites using a 0.5% emulsion. Also revise the dosage range for treatment of subterranean termites; pre- and postconstruction to read: "Use a 0.5% to 1.0% emulsion with the higher use rate used in hard-to-treat locations or areas of heavy termite pressure." Also indicate on the label that annual re-inspections are required <del>for the 0.5% application rate i.e. 0.5% is used the</del> <del>any signs of termite infestations are noted.</del> <del>the site should be re-inspected.</del></li> </ol> </li> </ol> <p><i>Property should be inspected annually for possible infestation and re-inspection is necessary. Alternatively you could use the No rate only without the re-inspection statement.</i></p> |  |  |  |
| <input type="checkbox"/> ATTACHMENT IS APPLICABLE   |  | SIGNATURE OF APPROVING OFFICIAL<br><br>DATE  |  |

- d. Delete the outdoor directions for use of this product as a residual surface spray or submit/cite the efficacy data which support this claim.
- e. Pursuant to your request dated February 13, 1987, under the heading Preconstruction Subterranean Termite Treatment retain the following "Do not apply to any area intended as a plenum air space." Also under the subheading Crawl Space, retain the following "Do not make an overall broadcast application to areas intended to be crawl spaces. Application must be made by rodding and/or trenching."

For further revisions to the termiticide use directions refer to the enclosed current Label Improvement Program information. The revisions must be made before the product is released for shipment. Note specifically those statements in italics.

- 3. 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.

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, as well as a copy of the efficacy reviews.

P.S. To summarize the above label revisions you should delete all uses below the Retreatment paragraph except for termites (localized area instructions using 0.05-1% rate) and the instructions regarding control of cluster flies.

George T. LaRocca  
Product Manager (15)  
Insecticide-Rodenticide Branch  
Registration Division (TS-767C)

Enclosures

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# Torpedo™

INSECTICIDE

RECORDED  
IN EPA Label Data

MAR 18 1987

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
is amended, for the pesticide  
registered under EPA Reg. No.  
10182-45

**ACTIVE INGREDIENT:**  
Permethrin

(3-Phenoxyphenyl) methyl (±)-cis, trans-3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate\* ..... 25.6%  
INERT INGREDIENTS ..... 74.4%

Total ..... 100.0%  
\*Cis/trans ratio: Min. 35% (±) cis and max. 65% (±) trans.  
TORPEDO contains 2 pounds active ingredient per gallon.

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND  
DOMESTIC ANIMALS**

**WARNING**

**HARMFUL IF SWALLOWED OR ABSORBED THROUGH  
SKIN. MAY CAUSE EYE IRRITATION.**

Avoid contact with eyes, skin or clothing. Avoid breathing vapor or spray mist. Wash thoroughly after handling.

**STATEMENT OF PRACTICAL TREATMENT:**

**IF SWALLOWED:** Do not induce vomiting. Call a physician. Vomiting should be supervised by a physician or the professional staff because of the possible pulmonary damages via aspiration of the solvent. **IF IN EYES:** Flush with plenty of water. Get medical attention if irritation persists. **IF ON SKIN:** Wash with plenty of soap and water.

For 24-hour emergency assistance, call ICI Americas Inc 302/575-3000.

**ENVIRONMENTAL HAZARDS:** This pesticide is extremely toxic to fish. Use with care when applying in areas adjacent to any body of water. Do not apply directly to water. Do not apply when weather conditions favor drift from treated areas. Do not contaminate water by cleaning of equipment or disposal of wastes. This product is highly toxic to bees exposed to direct treatment or residues on crops or weeds. Do not apply TORPEDO, or allow it to drift to crops or weeds on which bees are actively foraging. Additional information may be obtained from your Cooperative Extension Service. Apply this product only as specified on this label.

In case of a significant spill, call CHEMTREC 800/424-9300.

**Keep Out of Reach  
of Children**

**WARNING**

See Below for Additional Precautionary Statements and Statement of Practical Treatment.

EPA Reg. No. 10182-  
U.S. Patent No. 4,024,163

**PHYSICAL OR CHEMICAL HAZARDS:** Do not use or store near heat or open flame.

**STORAGE AND DISPOSAL**

**PROHIBITIONS:** Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

**STORAGE:** Keep container closed when not in use. Do not store near food or feed. Protect from freezing. In case of spill or leak on floor or paved surfaces, soak up with sand, earth or synthetic absorbent. Remove to chemical waste 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.

**CONTAINER DISPOSAL: Metal Containers:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. **Plastic Containers:** 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. **Glass Containers:** Triple rinse (or equivalent). Then dispose of in a sanitary landfill or by other approved state and local procedures.

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GENERAL INFORMATION  
ON THE USE OF THIS PRODUCT

Chemicals for soil treatment are used to establish a barrier against termite attack. 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.

For the effective use of this product, it is necessary that the service technician be familiar with current control practices including trenching, rodding, sub-slab injection, and low-pressure spray applications. These techniques must be correctly employed to prevent or control infestations by subterranean termite species of *Reticulitermes*, *Zootermopsis*, and *Heterotermes*. Choice of appropriate procedures should include consideration of such variable factors as the design of the structure, water table, soil type, soil compaction, grade conditions, location, and type of domestic water supplies. The biology and behavior of the termite species involved are important factors to be known as well as suspected location of the colony and severity of the infestation within the structure to be protected.

Effective termite control also includes elimination of termite access to moisture by recommending repair of faulty construction grade and/or plumbing. Remove all wood and cellulose containing debris in contact with soil from crawl spaces, porches, and around foundations.

For advice concerning current control practices with relation to the specific local conditions, consult resources in structural pest control.

**DIRECTIONS FOR USE —  
SUBTERRANEAN TERMITE CONTROL**

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

This labeling must be in the possession of the user at the time of application.

Avoid contamination of public and private water supplies by following these precautions:

**Use anti-backflow equipment or procedures.**

**Do not treat soil beneath structures  
that contain wells or cisterns.**

**Extreme care must be taken to avoid runoff.  
Do not treat soil that is water-saturated or frozen.**

Consult state and local specifications for recommended distance of treatment areas from wells. Refer to Federal Housing Administration Specifications for guidance on preconstruction treatments.

After Treatment: Securely plug all holes drilled in construction elements of commonly occupied areas of structures, including unfinished basements, enclosed porches, garages, and workshops.

**PRECONSTRUCTION SUBTERRANEAN TERMITE  
TREATMENT**

Effective preconstruction subterranean termite control requires the establishment of an unbroken vertical and/or horizontal chemical barrier between wood in the structure and the termite colonies in the soil.

To meet F.H.A. termite-proofing requirements, follow the latest edition of the Housing and Urban Development (H.U.D.) Minimum Property Standards.

Use a 0.5% emulsion for subterranean termites. Mix 2 gallons of TORPEDO in 98 gallons of water.

After grading is completed and prior to pouring of the slab, slab-supported or constructed porches, and other critical areas, make the following treatments:

**Horizontal Barriers** - Horizontal barriers shall be established over areas intended for covering such as floors, porches, and other critical areas; application shall be made by a low-pressure spray.

Apply the emulsion at the rate of 1 gallon per 10 square feet to dirt fill. If fill is washed gravel or other coarse material, apply the emulsion at the rate of 1 1/2 gallons per 10 square feet.

Covering the treated area with a water-resistant cover such as polyethylene sheeting will aid in protecting against soil wash-out during heavy rainfall.

**Vertical Barriers** - Vertical barriers shall be established around the base of foundations, plumbing, back-filled soil against foundation walls, and other critical areas; applications shall be made by rodding and/or trenching. Apply the emulsion at the rate of 4 gallons per 10 linear feet per foot of depth. For example, a footing 3 feet deep would require 12 gallons of emulsion per 10 linear feet.

Outside and inside perimeter applications must be made by rodding and/or trenching. When rodding from grade or from the bottom of a shallow trench, rod holes should be spaced in a manner that will allow for application of a continuous chemical barrier. Rod holes should not extend beneath the top of the footings.

A trench need not be wider than 6 inches. Rod from the base of a shallow trench to the top of the footings. Low-pressure spray may be used to treat soil which will be replaced in the trench. Mix the emulsion with the soil as it is being replaced in the trench.

Soil should be treated around sewer lines, plumbing, or around any other utility extending from the soil through a slab.

**Hollow Masonry Units of the Foundation:** Treat so as to make a continuous chemical barrier in the voids. Apply the emulsion at the rate of 2 gallons per 10 linear feet. Apply the emulsion so it will reach the footing.

**Crawl Spaces**

For crawl spaces apply at the rate of 4 gallons of emulsion per 10 linear feet per foot of depth from grade to the top of the footing. Application may be made by rodding and/or trenching. Treat both sides of foundation and around all piers and pipes.

- Rod holes should be spaced (about 1 foot) to provide a continuous chemical barrier.
- Trench need not be wider than 6 inches nor below the foundation. The emulsion should be mixed with the soil as it is being replaced in the trench.

**POSTCONSTRUCTION TREATMENTS**

Use a 0.5% emulsion for subterranean termites. Mix 2 gallons of TORPEDO in 98 gallons of water.

Postconstruction applications shall be made by sub-slab injection, rodding, and/or trenching using low-pressure spray.

Do not apply emulsion until location of heat or air conditioning ducts, vents, and water and sewer (or plumbing) lines are known and identified. Extreme caution must be taken to avoid contamination of these structural elements and airways.

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**Slab-On-Ground:** Apply the emulsion at the rate of 4 gallons per 10 linear feet. Application shall be made by sub-slab injection, trenching, or horizontal rodding.

Treat the soil from grade to the top of the footing along the outside and, where necessary, along the inside of the foundation perimeter. Treatment may also be required along one side of a partition wall (especially where the wall is connected to the floor by fixtures inserted in the slab) and along cracks, expansion joints, and other critical areas.

Drill holes should be spaced in a manner that will allow for application of a continuous chemical barrier.

Where necessary, drill through the foundation walls from the outside and force the chemical just beneath the slab or along the inside of the foundation.

Along the outside of the foundation walls where shallow foundations exist (1 foot or less), dig a narrow trench approximately 6 inches wide and not below the top of the footing. Apply the emulsion at the rate of 2 gallons per 10 linear feet. As the soil is being replaced into the trench, apply another 2 gallons per 10 linear feet to the backfill. When making soil applications to the foundations extending deeper than 1 foot, follow instructions under: BASEMENTS — OUTSIDE PERIMETER. (See exception for monolithic slabs immediately following.)

**Note:** For monolithic slab construction a vertical barrier shall be established along the outside of foundation walls from grade to the bottom of the monolithic poured concrete foundation. Where the foundation extends deeper than one foot, rod holes should not extend beneath the bottom of the monolithic poured concrete foundation.

**Hollow Masonry Units of the Foundation:** Treat so as to make a continuous chemical barrier in the voids. Apply the emulsion at the rate of 2 gallons per 10 linear feet. Apply the emulsion so it will reach the footing.

**Basements:** Apply the emulsion at the rate of 4 gallons per 10 linear feet per foot of depth from the grade to the top of the footing. For example, a footing 3 feet deep would require 12 gallons of emulsion per 10 linear feet. Application shall be made by sub-slab injection, trenching, and/or rodding.

**Inside:** Treatment may be required along inside of foundation walls and along one side of interior partition walls (or bearing walls) especially where the wall is connected by fixtures inserted in the floor. Application may also be necessary around sewer pipes, floor drains, conduits, or any cracks in the basement floor. Drill holes should be spaced in a manner that will allow for application of a continuous chemical barrier.

**Outside Perimeter:** Applications must be made by rodding and/or trenching. When rodding from grade or from the bottom of a shallow trench, rod holes should be spaced in a manner that will allow for application of a continuous chemical barrier. Rod holes should not extend beneath the top of the footings.

A trench need not be wider than 6 inches. Rod from the base of a shallow trench to the top of the footings. Low-pressure spray may be used to treat soil which will be replaced in the trench. Mix the emulsion with the soil as it is being replaced in the trench.

**Hollow Masonry Units of the Foundation and/or Basement Wall (below grade):** Treat so as to make a continuous chemical barrier in the voids. Apply the emulsion at the rate of 2 gallons per 10 linear feet. Apply the emulsion so it will reach the footing.

**Crawl Spaces:** Apply the emulsion at the rate of 4 gallons per 10 linear feet per foot of depth from the grade to the top of the footing. For example, a footing 3 feet deep would require 12 gallons of emulsion per 10 linear feet. For best results application should be made by rodding and/or trenching.

Treat both sides of foundation and around all piers and pipes. When rodding from grade or from the bottom of a shallow trench, rod holes should be spaced in a manner that will allow for application of a continuous chemical barrier. Rod holes should not extend beneath the top of the footings.

A trench need not be wider than 6 inches. Rod from the base of a shallow trench to the top of the footings. Low-pressure spray may be used to treat soil which will be replaced in the trench. Mix the emulsion with the soil as it is being replaced in the trench.

## RETREATMENT :

Retreatment for subterranean termites should be made when there is evidence of reinfestation subsequent to the initial treatment, or there has been a disruption of the chemical barrier in the soil due to construction, excavations, landscaping etc. Retreatment should be made as a spot application to these areas.

Retreatments may be made to vulnerable areas in accordance with the application techniques described above. This application should be made as a spot treatment to these areas. Routine or annual retreatment of the entire premises should be avoided.

## DIRECTIONS FOR USE - WOOD-INFESTING BEETLES, CARPENTER ANTS AND TERMITES (Localized Areas in Structures)

**Dosage and Mixing Instructions:** TORPEDO is recommended for use as an aqueous emulsion containing 0.25% permethrin. To prepare a 0.25% emulsion, add 1.5 fl. oz. (40 ml) of concentrate per gallon of spray.

To control wood-infesting beetles of the families Lyctidae, Bostrichidae, Anobiidae, and Cerambycidae in homes and other structures, apply as an emulsion containing 0.25% TORPEDO. For treatment of small areas, apply by brushing the emulsion evenly on wood surfaces. For large or overhead areas, apply as a coarse spray to the point of runoff. When spraying overhead interior areas of homes, apartment buildings, etc., to the point of runoff, cover all surfaces below the area being sprayed with plastic sheeting or other material which should be disposed of by placing in trash if contamination from dripping occurs. Sprayed surfaces should be avoided until the spray has totally dried.

**Food Handling Establishments:** Places other than private residences in which food is held, processed, prepared or served:

**Nonfood Areas:** TORPEDO insecticide may be used in nonfood areas. All areas where insects hide or through which insects may enter should be treated.

**Food Areas:** TORPEDO is not labeled for use in food areas. Do not use in any area where food or feed is stored, prepared or consumed.

For control of carpenter ants in homes and other structures, apply as a 0.25% solution around doors and windows and other places where carpenter ants enter the premises and where they crawl and hide. Also spray into cracks and crevices or through openings or small newly drilled holes into wall voids where these ants or their nests are present. Use a sufficient amount of coarse spray to cover the area to the point of runoff.

For control of termites (localized areas of infested wood in structures), apply a 0.25% emulsion to voids and channels in damaged wood and in spaces between wooden members of a structure and between wood and foundations where termite infestation is likely to occur. Application may be made to inaccessible areas by drilling, then injecting the emulsion. Use a sufficient amount of coarse spray to cover the area to the point of runoff. Treatment of localized areas is intended to kill winged reproductive and worker forms of termites in the treated areas and to prevent infestations for a temporary period. This type of application is not intended to be a substitute for soil treatment or mechanical alteration to control subterranean termites.

## OUTDOOR USE

For control of ants, bees, centipedes, cockroaches, crickets, firebrats, millipedes, silverfish, sowbugs, pillbugs, spiders, flies, and wasps. Apply a 0.25% solution as a residual spray to surfaces of building, porches, screens, window frames, eaves, patios, lawns, refuse dumps, garages with either hand or power sprayer and in other areas where these pests are found.

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## BARRIER TREATMENTS

To help prevent infestation of buildings, apply a 0.25% solution to a band of soil and vegetation 6 to 10 feet wide around and adjacent to the building. Also, treat the building foundation to a height of 2 to 3 feet when pests are active and may find entrance. Apply as a coarse spray to thoroughly and uniformly wet the band areas, using 1 gallon of spray mix per 400 square feet.

### Recommendation for Control of Cluster Fly

Apply TORPEDO to the outside of the structure. Mix 1 part TORPEDO to 5 parts deodorized lightweight mineral oil; apply to 1,000 square feet of wall area. Use a fogging apparatus which delivers the material in a strong air carrier, producing a small particle size. The apparatus should be held within three feet of the surface being treated. Apply only when air movement is less than 2 miles per hour.

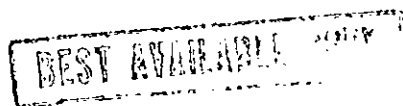
The surface treated should be dry at the time of application. Attics and unoccupied lofts should be treated at the same time and at the same rate.

Generally the north side of structures need not be treated since flies seldom enter from areas not sunlit.

**NOTICE TO BUYER AND USER:** Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal use conditions, or under conditions not reasonably foreseeable to Seller and Buyer and User assume the risk of any such use. SELLER DISCLAIMS ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF FITNESS OR MERCHANTABILITY, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT AND SELLER'S SOLE LIABILITY AND BUYER'S AND USER'S EXCLUSIVE REMEDY SHALL BE LIMITED TO THE REFUND OF THE PURCHASE PRICE.



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