

## DURSBAN\* TC TERMITICIDE CONCENTRATE

For Control of Subterranean Termites (Reticulitermes, Coptotermes)

Zootermopsis and Heterotermes)

and Wood-infesting Insects

Only for Retail Sale to and Use and Storage by or Under the Supervision of Pest Control Operators or Other Trained Professional Personnel.

## **ACTIVE INGREDIENTS**

Chlorpyrifos [0,0-diethyl 0-(3,5,6-trichloro	-2-			
<pre>pyridyl)phosphorothioate]</pre>				42.0%
Xylene range aromatic solvent				9.2%
INERT INGREDIENTS				48.8%
Contains 4 pounds of chlorpyrifos per gallon				
EPA Registration No. 464-562	EPA	Est	. 464	1 - IM-

PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

TRANSLATION: (TO THE USER: If you cannot read English, do not use this product until the label has been fully explained to you).

## KEEP OUT OF REACH OF CHILDREN

#### WARNING

## PRECAUTIONARY STATEMENTS

HATTAIS TO HUMBUS

MAY BE FATAL IF SWALLOWED

MAY BE ABSORBED THROUGH SKIN

MAY BE INJURIOUS TO EYES AND SKIN

Do Not Take Internally
Do Not Get in Eyes, on Skin or on Clothing
Avoid Breathing Vapors and Spray Mist
Wash Thoroughly After Handling
and Defore Eating or Smoking
Do Not Mear Contaminated Clothing or Shoes

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## Statement of Practical Treatment

If Swallowed: Do not induce vomiting. Contains aromatic petroleum solvent. Call. a Physician immediately. If On Skin: In case of contact, remove contaminated clothing and immediately wash skin with soap and water. If irritation persists get medical attention. If In Eyes: Flush eyes with plenty of water for 15 minutes. Call a physician. If Inhaled: remove to fresh air.

NOTE TO PHYSICIAN: Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. Atropine only by injection is an antidote.

Physical or Chemical Hazards

#### COMBUSTIBLE

Do Not Use or Store Near Heat or Open Flame

#### Environmental Hazards

This product is highly toxic to bees exposed to direct treatment or residue on plants. Protective information may be obtained from your Cooperative Agricultural Extension Service.

DURSBAN TC is toxic to fish, birds, and other wildlife. Keep out of lakes, streams, ponds, tidal marshes and estuaries. Do not apply where runoff is likely to occur. Do not contaminate water by cleaning of equipment, or disposal of wastes.

In case of emergency endangering life or property involving this product, call collect

517-636-4400

AGRICULTURAL CHEMICAL
Do Not Ship or Store with Food, Feeds,
Drugs or Clothing

#### DIRECTIONS FOR USE

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

## SUBTERRANEAN TERMITES

Wear suitable protective equipment and clothing when using or handling this product to help avoid exposure to eyes and skin. As a minimum, chemical worker's goggles, protective head covering, neoprene or natural rubber gloves and footwear, a long-sleeved shirt and long-legged pants or coveralls are recommended. To avoid breathing spray mist during application in confined areas, wear a mask or respirator of a type recommended by NIOSH for filtering spray and organic vapors.

pursual TC for soil treatment is used to establish a barrier which is lethal to 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.

It is necessary for the effective use of this product that the service technician be familiar with current control practices including trenching, rodding, subslab injection, and low pressure spray applications. These techniques must be correctly employed to prevent or control infestations by subterranean termite species of Reticulitermes, Zootermopsis, Heterotermes, and Coptotermes. Choice of appropriate procedures includes consideration of such variable factors as the design of the structure, water table, soil type, soil compaction, grade conditions, and the location and type of domestic water supplies. The biology and behavior of the involved termite species 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. For advice concerning current control practices for specific local conditions, consult resources in structural pest control.

Contamination of public and private water supplies must be avoided by following these precautions: Use antiback-flow equipment or procedures to prevent siphonage of pesticide back into water supplies. Do not treat structures that contain cisterns or wells. Do not treat soil that is water saturated or frozen. Consult state and local specifications for recommended distances of treatment areas from wells, and refer to Federal Housing Administration Specifications for further guidance.

All nonessential wood and cellulose containing materials, including scrap wood and form boards, should be removed from around foundations walls, crawl spaces, and porches. This does not include existing structural soil contact wood that either has been or needs to be treated.

## PRECONSTRUCTION SUBTERRAMEAN TERMITE TREATMENT

Effective preconstruction subterranean termite control requires the establishment of an unbroken verticle 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 13 water emulsion for subterranean termites. Mix 2 gallons of • • • DURSBAN TO in 98 gallons of water to produce a 18 water emulsion.

After grading is completed and prior to the pouring of the slab, slab\*\*.\*
supported/constructed parater or entrance platforms, make the following treatments. Applications shall be made by a low pressure spray for \*..\*.\*
horizontal barriers over areas intended for covering floors, porches and other critical areas.

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Establish a vertical barrier in areas such as around the base of foundations, plumbing, back-filled soil against foundation walls and other critical areas.

- 1. Where it is necessary to produce a horizontal barrier, apply the emulsion at the rate of one gallon per 10 square feet to fill dirt. If fill is washed gravel or other coarse material, apply at 1-1/2 gallons per 10 square feet. It is important that the emulsion reaches the soil substrate.
  - a. If concrete slabs cannot be poured over soil the same day it has been treated, a water-proof cover, such as polyethylene sheeting, should be placed over the soil. This is not necessary if foundation walls have been installed around the treated soil.
- 2. To produce a vertical barrier, apply the emulsion at the rate of 4 gallons per 10 linear feet per foot of depth.
  - a. Rodding and/or trenching applications should not be made below the top of the footing.
  - b. Trench need not be wider than 6 inches.
  - c. Rod holes should extend from the base of the trench to the top of the footing, and should be spaced (about a foot) to provide a continuous barrier.
  - d. Emulsion should be mixed with the soil as it is being replaced in the trench. Cover treated soil with a layer of untreated soil, or other suitable barrier such as polyethylene sheeting.
- 3. Hollow block foundations or voids of masonry should be treated to make a continuous chemical barrier in voids. Apply at the rate of 2 gallons of emulsion per 10 linear feet so it will reach the footing.
- 4. For crawl spaces apply at the rate of 4 gallons of emulsion per linear feet and foot of depth from grade to bottom of foundations. Application may be made by rodding and/or trenching (utilizing low pressure spray). Treat both sides of foundation and...
  - a. Rod holes should be spaced (about i foot) to provide a continuous chemical barrier.
  - b. Trench need not be wider than 6 inches nor below the foundation. In the emulsion should be mixed with the soil as it is leing replaced in the trench. Cover the treated soil with a layer of untreated soil or other suitable barrier such as polyethylene sheeting.

- c. Do not apply this product in any manner to an area intended as a plenum air space.
- d. Do not apply this product as an overall treatment to soil in crawl spaces.

All holes drilled in construction elements for treatment should be securely plugged.

#### POSTCONSTRUCTION TREATMENTS

Use a 1% emulsion for subterranean termites. Mix 2 gallons of DURSBAN TC in 98 gallons of water to produce a 1% water emulsion.

Postconstruction applications shall be made by injection, rodding, and/or trenching (using low pressure spray).

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

- 1. For slab-on-ground construction apply at the rate of 4 gallons of emulsion per 10 linear feet. Applications may be made by sub-slab injection and/or trenching. Injectors should not extend beyond the tops of the footings. Treat along the outside of the foundation and where necessary just beneath the slab on the inside of foundation walls. Treatment may also be required just beneath the slab along one side of interior partitions and along all cracks and expansion joints.
  - a. Drill holes in the slab to provide a continuous chemical barrier.
  - b. Where necessary, drill through the foundation walls from the outside and force the emulsion just beneath the slab either along the inside of the foundation or along all the cracks and expansion joints and other critical areas.
  - c. For shallow foundations, I foot or less, dig a narrow trench approximately six inches wide along the outside of the foundation walls. Do not dig below the bottom of the foundation. The emulsion should be applied to the trench and the soil at 4 gallons per linear feet as the soil is replaced in the trench. Cover the treated soil with a layer of untreated soil.
  - d. For foundations deeper than 1 foot follow rates for basements....

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- 2. Hollow block foundations or voids of masonry should be treated to make a continuous chemical barrier in voids. Apply at the rate of 2 gallons of emulsion
- 3. For basements apply at the rate of 4 gallons of emulsion per 10 linear feet. Where footings are greater than 1 foot of depth from the grade to the bottom of the foundation application may be made by trenching and/or rodding at the rate of 4 gallons of emulsion per linear feet per foot of depth. Treat outside of foundation walls, and if necessary beneath the basement floor along inside of foundation walls, along cracks in basement floors, along interior load bearing walls, round sewer pipes, conduits, and piers.
- 4. In crawl spaces apply at the rate of 4 gallons of emulsion per 10 linear feet per foot of depth from grade to bottom of foundation. Application may be made by rodding and/or trenching (utilizing low pressure spray). Treat both sides of foundation and around all piers and pipes.
  - a. Rod holes should be spaced (about 1 foot) to provide a continuous chemical barrier.
  - b. Trench need not be wider than 6 inches nor <u>below</u> the foundation. The emulsion should be mixed with the soil as it is replaced in the trench. Cover the treated soil with a layer of untreated soil or other suitable barrier such as polyethylene sheeting.
  - c. For inaccessible crawl spaces, treat soil by an alternate method such as drilling and rodding through foundation walls from the outside.

All treatment holes drilled in construction elements of living areas of homes should be securely plugged.

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For control of carpenter ants in homes and other structures, apply as a solution containing 0.5 or 1.0% chlorpyrifos 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 run-off.

For control of termites (localized areas of infested wood in structures), apply a 0.5 or 1.0% 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 and, then, injecting the emulsion. Use a sufficient amount of coarse spray to cover the area to the point of run-off. Treatment of localized areas is intended to kill workers and winged reproductive 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.

## Treatment of Preconstruction Lumber and Logs

To protect unseasoned or seasoned lumber and logs from wood destroying insects, such as termites, carpenter ants and beetles, (ambrosia, powder-post, old house borers and others) totally treat wood with a 0.5% emulsion of chlorpyrifos. This emulsion can be applied by various methods including spraying, brushing, dipping and pressure treatment. Frequent monitoring of dip and pressure systems are necessary to insure that the desired level of chlorpyrifos is maintained. Wood can be safely handled after treatment when dry.

- 1. For dip treatments, the wood should be totally submersed in the emulsion until thoroughly wet and then allowed to dry in a suitable location.
- 2. For pressure treatments, the wood should be placed in the treatment chamber, the chlorpyrifos emulsion added and the system pressurized up to 250 psig for 30 minutes to 1 hour depending on the density and type of wood treated. After the pressure is released and the system drained, the wood should be placed in a suitable location for drying.

## RETREATMENT RESTRICTIONS

- 1. Retreatment for subterranean termites should only 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.
- 2. Retreatments may be made to critical areas in accordance with the application techniques described above. This application should be made as a spot treatment to these areas.

Routine retreatment of the entire premises should be avoided.

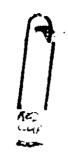
Control of Wood-Infesting Beetles, Carpenter Ants and Termites (Localized Areas in Structures)

Wear suitable protective clothing when using or handling this product to help avoid exposure to eyes and skin. As a minimum, chemical worker's goggles, protective head covering, neoprene or natural rubber gloves and footwear, a long-sleeved shirt and long-legged pants or coveralls are recommended. To avoid breathing spray mist during application in confined areas, wear a mask or respirator of a type recommended by NIOSH for filtering spray mists and organic vapors. 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 could be disposed of by placing in trash if contamination from dripping occurs.

Sprayed surfaces should be avoided until the spray has totally dried. Do not apply in food serving areas while food is exposed. Do not use in structures occupied by animals to be used for food purposes or which produce products for human consumption. Do not use in food areas of food handling establishments, restaurants or other areas where food is commercially prepared or processed.

Dosage and Mixing Instructions: DURSBAN TO termiticide is recommended for use as an aqueous emulsion containing 0.5% or 1% chlorpyrifos. • Tq. prepare a 0.5° emulsion add 1-1/3 fl oz (40 ml) of concentrate to eyery, gallon of final spray mixture desired to prepare a 1% emulsion, add. • • 2-2/3 fl oz (80 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 0.5 or 1.0% chlorpyrifos. 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.



## STORAGE AND DISPOSAL

Prohibitions: Do not contaminate water, food or feed by storage or disposal.

Pesticide Disposal: Pesticide, spray mixture, or rinse water that cannot be used according to label instructions must be disposed of according to Federal or approved state procedures under Subtitle C of the Resource Conservation and Recovery Act.

Container Disposal: Triple rinse (or equivalent) then offer for recycling or reconditioning, or dispose of in a sanitary landfill or by incineration if allowed by State and local authorities.

NOTICE: Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE, express or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.

U.S. Patent No. 3,244,586

# the dow chemical company

AND SUBSIDIARIES

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