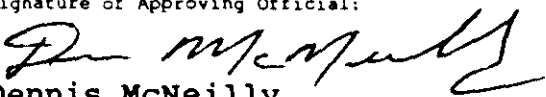
 <p>U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (7505C) 401 "M" St., S.W. Washington, D.C. 20460</p> <p><b>NOTICE OF PESTICIDE:</b> <input checked="" type="checkbox"/> Registration <input type="checkbox"/> Reregistration</p> <p>(under FIFRA, as amended)</p>	EPA Reg. Number: 62719-380	Date of Issuance: 8/06/01
	Term of Issuance: Conditional	
	Name of Pesticide Product: Lorsban 12.6%	
Name and Address of Registrant (include ZIP Code):  Dow AgroSciences, LLC 9330 Zionsville Road 308/28225 Indianapolis, IN 46268		
<p><b>Note:</b> 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.</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 (FIFRA).</p> <p>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.</p> <p>This product is conditionally registered in accordance with FIFRA Section 3(c)(7)(A) provided that you:</p> <ol style="list-style-type: none"> <li>Submit and/or cite all data required for registration of your product under FIFRA Section 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.</li> <li>Make the following label changes before you release the product for shipment:             <ol style="list-style-type: none"> <li>Revise the EPA Registration Number to read, "EPA Reg. No. 62719-380."</li> <li>Replace the statement: "For non-residential outdoor use in industrial sites and turfgrass areas including golf courses, road medians and industrial areas, and agricultural use on certain crops." on pages 2 and 5 with "For non-residential outdoor use in industrial sites, golf course turf, road medians, industrial areas, and agricultural use on certain crops, including turfgrass grown for sod or seed."</li> <li>On page 17, under the heading "Preconstruction Subterranean Termite Treatments" revise the phrase "In Florida" to "In Florida and Ohio". In addition, directly after this, the current restriction related to consumer information when using this product in Kentucky (Dursban TC Supplemental, page 1) must be added to the label.</li> </ol> </li> </ol>		
Signature of Approving Official:  Dennis McNeilly Insecticide-Rodenticide Branch	Date:  Aug 6, 2001	

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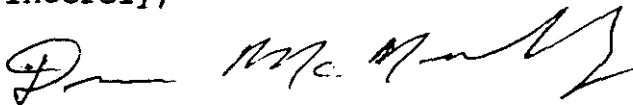
EPA Reg. No. 62719-380

Submit one copy of the revised final printed label before releasing the product for shipment.

If the conditions enumerated above 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. Please contact me on (703) 308-6742 if you have questions regarding this registration.

Sincerely,



Dennis McNeilly, Chemist  
Insecticide-Rodenticide Branch  
Registration Division (7505C)

Enclosure 1) Stamped Label

(Base Label):

**RESTRICTED USE PESTICIDE**

For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.

(Logo) Dow AgroSciences

**Lorsban\* 12.6%**

For non-residential outdoor use in industrial sites and turfgrass areas including, golf courses, road medians, and industrial areas, and agricultural use on certain crops.

Active Ingredient

Lorsban: O,O-diethyl-O-	
(3,5,6-trichloro-2-pyridinyl)	
phosphorothioate .....	12.6%
Inert ingredients .....	87.4%
Total .....	100.0%

ACCEPTED  
with COMMENTS  
In EPA Letter Dated:

AUG - 6 2001  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under EPA Reg. No.  
62719-280

Contains 0.93 pounds of Lorsban per gallon.  
Contains aromatic petroleum distillates.

Keep Out of Reach of Children

**WARNING AVISO**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

**Precautionary Statements**

**Hazards to Humans and Domestic Animals**

May Be Fatal If Swallowed • Harmful If Absorbed Through The Skin • Causes Moderate Eye And Skin Irritation • Prolonged Or Frequently Repeated Skin Contact May Cause Allergic Reactions In Some Individuals

Avoid breathing vapor or spray mist. Do not get in eyes, on skin, or on clothing.

**Personal Protective Equipment (PPE)**

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category G on an EPA chemical resistance category selections chart.

**Applicators and other handlers must wear:**

- Coveralls over short-sleeved shirt and short pants
- Chemical-resistant gloves such as Barrier Laminate or Viton
- Chemical-resistant shoes plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure
- Chemical-resistant apron when cleaning equipment and mixing or loading

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining

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PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

### User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

### First Aid

**If swallowed:** Call a physician or Poison Control Center immediately. Do not induce vomiting. Contains aromatic petroleum solvent. Do not give anything by mouth to an unconscious person.

**If in eyes:** Flush with plenty of water for at least 15 minutes. Get medical attention.

**If on skin:** Wash with plenty of soap and water. Get medical attention.

**If inhaled:** Remove to fresh air if symptoms of cholinesterase inhibition appear and get medical attention immediately.

**Note to physician:** Lorsban is a cholinesterase inhibitor. Treat symptomatically. If exposed, plasma and red blood cell cholinesterase tests may indicate significance of exposure (baseline data are useful).

Atropine, only by injection, is the preferable antidote. Oximes, such as 2-PAM/protopam, may be therapeutic if used early; however, use only in conjunction with atropine. In case of severe acute poisoning, use antidote immediately after establishing an open airway and respiration.

### Environmental Hazards

This pesticide is toxic to birds and wildlife, and extremely toxic to fish and aquatic organisms. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent aquatic sites. Cover or incorporate spills. Do not contaminate water when disposing of equipment washwaters. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area. Protective information may be obtained from your cooperative agricultural extension service.

### Physical or Chemical Hazards

Do not use or store near heat or open flame.

### Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

Refer to label booklet for Directions for Use including Storage and Disposal.

**Notice:** Read the entire label. Use only according to label directions. Before using this product, read "Warranty Disclaimer," "Inherent Risks of Use," and "Limitation of Remedies" at end of label booklet. If terms are unacceptable, return at once unopened.

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994. If you wish to obtain additional product information, visit our web site at [www.dowagro.com](http://www.dowagro.com).

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Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

EPA Reg. No. 62719-XXX

EPA Est. \_\_\_\_\_

\*Trademark of Dow AgroSciences LLC  
Dow AgroSciences LLC • Indianapolis, IN 46268 U.S.A.

## Insecticide

Net Contents \_\_\_ gal

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(Datapack cover):

**RESTRICTED USE PESTICIDE**

For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.

(Logo) Dow AgroSciences

**Lorsban\* 12.6%**

**For non-residential outdoor use in industrial sites and turfgrass areas including golf courses, road medians and industrial areas, and agricultural use on certain crops.**

Active Ingredient:

Lorsban: O,O-diethyl-O-(3,5,6-trichloro-2-pyridinyl) phosphorothioate ..... 12.6%

Inert Ingredients ..... 87.4%

Total ..... 100.0%

Contains 0.93 pounds of Lorsban per gallon.

Contains aromatic petroleum distillates.

**Keep Out of Reach of Children**

**WARNING AVISO**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

**Agricultural Use Requirements**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

**Refer to label booklet for additional precautionary information including Personal Protective Equipment (PPE), User Safety Recommendations and Directions for Use including Storage and Disposal.**

**Notice: Read the entire label. Use only according to label directions. Before using this product, read "Warranty Disclaimer," Inherent Risks of Use," and "Limitation of Remedies" at end of label booklet. If terms are unacceptable, return at once unopened.**

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994. If you wish to obtain additional product information, visit our web site at [www.dowagro.com](http://www.dowagro.com).

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

EPA Reg. No. 62719-XXX

EPA Est. \_\_\_\_\_

\*Trademark of Dow AgroSciences LLC  
Dow AgroSciences LLC • Indianapolis, IN 46268 U.S.A.

**Insecticide**

**Net Contents \_\_ gal**

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**Inherent Risks of Use**  
**Limitation of Remedies**

-  
-



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**Precautionary Statements**

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**Hazards to Humans and Domestic Animals****WARNING AVISO**

**May Be Fatal If Swallowed • Harmful If Absorbed Through The Skin • Causes Moderate Eye And Skin Irritation • Prolonged Or Frequently Repeated Skin Contact May Cause Allergic Reactions In Some Individuals**

**Avoid breathing vapor or spray mist. Do not get in eyes, on skin, or on clothing.**

**Personal Protective Equipment (PPE)**

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category G on an EPA chemical resistance category selections chart.

**Applicators and other handlers must wear:**

- Coveralls over short-sleeved shirt and short pants
- Chemical-resistant gloves such as Barrier Laminated or Viton
- Chemical-resistant shoes plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure
- Chemical-resistant apron when cleaning equipment and mixing or loading

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**User Safety Recommendations**

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**First Aid****Organophosphate**

**If swallowed:** Call a physician or Poison Control Center immediately. Do not induce vomiting. Contains aromatic petroleum solvent. Do not give anything by mouth to an unconscious person.

**If in eyes:** Flush with plenty of water for at least 15 minutes. Get medical attention.

**If on skin:** Wash with plenty of soap and water. Get medical attention.

**If inhaled:** Remove to fresh air if symptoms of cholinesterase inhibition appear and get medical attention immediately.

**Note to physician:** Lorsban is a cholinesterase inhibitor. Treat symptomatically. If exposed, plasma and red blood cell cholinesterase tests may indicate significance of exposure (baseline data are useful).

Atropine, only by injection, is the preferable antidote. Oximes, such as 2-PAM/protopam, may be therapeutic if used early; however, use only in conjunction with atropine. In case of severe acute poisoning, use antidote immediately after establishing an open airway and respiration.

**Environmental Hazards**

This pesticide is toxic to birds and wildlife, and extremely toxic to fish and aquatic organisms. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent aquatic sites. Cover or incorporate spills. Do not contaminate water when disposing of equipment washwaters. This product is highly toxic to bees exposed to direct treatment or residues on blooming

crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area. Protective information may be obtained from your cooperative agricultural extension service.

### Physical or Chemical Hazards

Do not use or store near heat or open flame.

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### Directions for Use

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It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all Directions for Use carefully before applying.

This product cannot be reformulated or repackaged into other end-use products.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

### Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours. Certified crop advisors or persons entering under their direct supervision under certain circumstances may be exempt from the early reentry requirements pursuant to 40 CFR Part 170.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls over short-sleeved shirt and short pants
- Chemical-resistant gloves such as Barrier Laminate or Viton
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure

### Non-Agricultural Use Requirements

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

- Adults, children, or pets should not contact treated surfaces until the spray has dried.

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## Agricultural Uses

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### General Information

Lorsban<sup>®</sup> 12.6% insecticide forms an emulsion when diluted with water and is suitable for use in all conventional spray equipment. Consult your State Experiment Station or State Extension Service for proper timing of applications.

**Chemigation:** Do not apply this product through any type of irrigation equipment.

### Mixing Directions

To prepare the spray, add a portion of the required amount of water to the spray tank and with the spray tank agitator operating add Lorsban 12.6%. Complete filling the tank with the balance of water needed. Maintain sufficient agitation during both mixing and application to ensure uniformity of the spray mixture.

Lorsban 12.6% may also be used in tank mixtures with certain herbicides and/or with non-pressure fertilizer solutions as recommended under specific crop use directions. Prepare tank mixtures in the same manner as recommended above for use of Lorsban 12.6% alone. When tank mixtures of Lorsban 12.6% and herbicides are involved, add wettable powders first, flowables second, and emulsifiable concentrates last. Where a fertilizer solution is involved, it is strongly recommended that a fertilizer pesticide compatibility agent such as Unite or Compex be used. Maintain constant agitation during both mixing and application to ensure uniformity of the spray mixture. Do not allow spray mixtures to stand overnight.

**Note:** Test compatibility of the intended tank mixture before adding Lorsban 12.6% to the spray or mix tank. Add proportionate amounts of each ingredient to a pint or quart jar, cap, shake, and let set 15 minutes. Formation of precipitates that do not readily redispense indicates an incompatible mixture that should not be used.

### Citrus Orchard Floors

**Worker Restricted Entry Interval:** Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 5 days unless PPE required for early entry is worn.

#### Imported Fire Ants and other Ant Species

Use Lorsban 12.6% to control red imported fire ants and other ant species by applying the specified dose in 25 or more gallons of water with ground application equipment that will uniformly apply the spray to the orchard floor. To control foraging ants and suppress mounds, apply Lorsban 12.6% to the orchard floor at the rate of 3.2 to 4.3 quarts per acre. Re-treat as needed. For best insect control, uniform coverage of the orchard floor is necessary. Do not apply where weed growth or other obstructions would impede uniform coverage of the orchard floor. Do not apply in tank mixtures with Evik herbicide. Foliar applications of Lorsban 12.6% may be made in addition to the orchard floor treatments.

Lorsban 12.6% may also be applied to citrus orchard floors through sprinkler irrigation systems only if the system uniformly covers the soil surface at the base of the tree. For best results, use the recommended amount of Lorsban 12.6% per acre. See Sprinkler Irrigation instructions in the General Information section of this label.

#### Restrictions

Do not apply more than 10.75 gallons of Lorsban 12.6% per acre per season. Do not apply last treatment within 28 days before harvest for seasonal rates of more than 3.2 gallons per acre of Lorsban 12.6% or 14 days before harvest for seasonal rates of 3.2 gallons per acre or less of Lorsban 12.6%. Do not allow livestock to graze in treated areas. In Florida, do not apply more than 3.2 gallons per season.

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### Field Corn and Sweet Corn (Including Corn Grown for Seed)

For use to control cutworms, armyworms, corn earworm, corn rootworm adults, chinch bugs, grasshoppers, wireworms, flea beetle larvae and adults, aphids, billbugs, grubs, western bean cutworm, corn borers, symphylans, common stalk borer, and lesser comstalk borer.

#### Preplant Incorporation Treatment

Use Lorsban 12.6% at the following rates by application in sufficient water to the soil surface and incorporate into the soil:

Pests	Lorsban 12.6%
cutworms symphylans	4.3 - 8.6 qt/acre
wireworms billbugs flea beetle larvae grubs seed corn maggots seed corn beetle	8.6 qt/acre
lesser comstalk borer corn rootworm larvae	12.9 qt/acre

Use recommended rate in not less than 10 gallons of water per acre and apply as a broadcast spray to the soil surface using suitable power-operated ground spray equipment. On the same day of treatment, incorporate the insecticide into the top 2 to 4 inches of soil using a disc, field cultivator, or equivalent equipment.

Lorsban 12.6% may also be applied in tank mixtures with non-pressure fertilizer solutions and/or with Bladex, Eradicane, Sutan, Lasso, Dual<sup>®</sup>, and atrazine herbicides. See "Mixing Directions" for further information. Read and carefully follow all applicable directions, restrictions, and precautions on labeling for the other products used in combination with Lorsban 12.6%.

#### Preplant, At-Plant, or Preemergence Treatment in Conservation Tillage

Use Lorsban 12.6% at the following rates by application in sufficient water to surface trash and exposed soil:

Pests	Lorsban 12.6%
cutworms armyworms	2.2 - 4.3 qt/acre

Use recommended rate in not less than 20 gallons of water per acre and apply as a broadcast spray using suitable power-operated ground spray equipment. Use higher rates for residual control.

Lorsban 12.6% may also be applied in tank mixtures with non-pressure fertilizer solutions and/or with paraquat and Roundup herbicide. See "Mixing Directions" for further information. Read and carefully follow all applicable directions, restrictions, and precautions on labeling for the other products used in combination with Lorsban 12.6%.

#### T-Band At Plant Treatment

Lorsban 12.6% insecticide may be applied as a liquid T-Band in fields with no more than 30 percent cover of crop residue remaining on the soil surface. Apply Lorsban 12.6% as a liquid T-Band over an open seed furrow and incorporate into the top one inch of soil using tines, chains or other suitable equipment. Position a flat fan nozzle behind the planter shoe, in front of the press wheel adjusted to provide a 5 to 6 inch band width centered over the row. Apply Lorsban 12.6% at a rate of 10.3 fluid ounces per 1000 linear feet of row (2 pints per acre with 40 inch row spacing) in a minimum spray volume of 5 gallons per acre. The table below provides equivalent application rates for various row spacings. Applications made

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using a band width less than 5-6 inches may result in phytotoxicity under certain environmental conditions (e.g., cool temperatures, wet conditions, light soils).

Pests	Amount of Lorsban 12.6% Required	
	Row Spacing (inches)	Quarts per acre
corn rootworm larvae	30	5.6
cutworms	36	4.7
grubs	38	4.5
seed corn beetle	40	2.0
seed corn maggot		

#### Cultivation Time Treatment

Use Lorsban 12.6% at the rate of 4.3 quarts per acre to control corn rootworm larvae. Apply Lorsban 12.6% as a water emulsion on both sides of the row at the base of the plants and just ahead of the cultivator shovels. Cover the insecticide with soil around the brace roots. The best time to apply a basal treatment of a soil insecticide with cultivation is near the beginning of egg hatch. A cultivation application of Lorsban 12.6% may be made in addition to an at planting application of Lorsban 15G insecticide.

#### Restrictions

Do not apply within 35 days before harvest of grain. Do not apply more than a total of 7.5 lb a.i. (8.06 gallons) of Lorsban 12.6% per acre per season. Do not allow livestock to graze in treated areas nor harvest treated corn silage as feed for meat or dairy animals within 14 days after last treatment. Do not feed treated corn fodder to meat or dairy animals within 35 days after last treatment.

### Onions (Dry Bulb)

Use Lorsban 12.6% to control onion maggot by application as an in-furrow drench. Apply Lorsban 12.6% at the rate of 4.7 fluid ounces per 1,000 linear feet of row based on an 18-inch row spacing. Use a minimum of 40 gallons of total drench per acre. Incorporate to a depth of 1 to 2 inches.

#### Restrictions

Do not make more than 1 application per year.

### Sweet Potatoes

**Worker Restricted Entry Interval:** Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 2 days unless PPE required for early entry is worn.

Use Lorsban 12.6% to reduce the feeding damage caused by populations of *Conderus* wireworm, *Systema* flea beetle, and the sweet potato flea beetle. Apply at the rate of 8.6 quarts per acre as a broadcast (overall) spray to the soil surface followed by incorporation. Mix the specified dosage with enough water to obtain uniform coverage and apply as a coarse spray using suitable ground spray equipment. Incorporate the insecticide to a depth of 4 to 6 inches as soon as possible after application by using a rotary hoe, disc cultivator, or other suitable incorporation equipment. Plant the crop in the usual manner no later than 14 days after treatment (any delay in planting will reduce the length of time that Lorsban 12.6% will protect against feeding damage). Lorsban 12.6% will not control false wireworms or white fringe beetle or other grubs that attack sweet potatoes.

#### Restrictions

Do not make more than 1 application per season. Do not harvest within 125 days of treatment.

## Tobacco

Use Lorsban 12.6% for preplant treatment to control larvae of cutworms, flea beetles, mole crickets, root maggots, and wireworms. Apply 8.6 to 12.9 quarts of Lorsban 12.6% per acre in not less than 10 gallons of water as a broadcast (overall) spray to the soil surface 24-48 hours before bedding and transplanting. Immediately following application, incorporate the insecticide into the soil to a depth of 2 to 4 inches using suitable equipment. The application of Lorsban 12.6% will also suppress the movement of imported fire ants into treated fields.

To control the above insects and low to moderate populations of rootknot nematodes in North Carolina, South Carolina, and Virginia, use Lorsban 12.6% at the rate of 21.5 quarts (5.4 gallons) per acre. To control the above insects and moderate populations of rootknot nematodes in all tobacco growing regions, use Lorsban 12.6% in a tank mix with Nematicur 3 at the rate of 8.6 quarts (2.15 gallons) of Lorsban 12.6% plus 4 quarts of Nematicur 3 nematicide per acre. Read and carefully follow all applicable directions, restrictions, and precautions on labeling for Nematicur 3 used in combination with Lorsban 12.6%. Apply the specified dosage in not less than 10 gallons of water as a broadcast (overall) spray to the soil surface 24 to 48 hours before bedding and transplanting. Immediately following application, incorporate into the soil to a depth of at least 4 inches using suitable equipment. Where the nematode species *Meloidogyne arenaria* or *M. javanica* are present or high populations of *M. incognita*, apply Telone\* II soil fumigant at the recommended label rate.

Before broadcast application of Lorsban 12.6% onto existing beds, knock down beds to final shape for transplanting. Use of PTO-driven implements that will incorporate Lorsban 12.6% to a depth of 4 inches is recommended.

### Restrictions

Do not make more than 1 application per season.

## Turfgrass Grown for Sod or Seed (Agricultural Use)

**Agricultural Use Requirements:** When applied in turfgrass grown for seed or in sod farms, follow reentry interval and PPE requirements for early entry in the "Agricultural Use Requirements" box under "Directions for Use".

Use Lorsban 12.6% to control the pests listed in the following table by application at the recommended dosages. Dilute Lorsban 12.6% in water and apply using suitable application equipment. For best results, turf should be moist at time of treatment.

Pest	Amount of Lorsban 12.6% per	
	1,000 sq. ft.	Acre
Ants	3.2 fl oz	4.3 qt
Armyworms (Such as: Beet, Fall, Yellowstriped)	Grasshoppers	
Centipedes	Greenbug aphids	
Chiggers	Green June beetle grubs	
Chinch bugs	Leafhoppers	
Crickets	Lucerne moth	
Cutworms	Millipedes	
Deer ticks	Mites (Such as: Clover, Bermudagrass stunt, Winter grain)	
Earwigs	Mosquitoes	
European crane fly larvae	Pillbugs	
Fiery skipper	Sod webworms (lawn moths) (2)	
Fire ants (foraging workers)	Sowbugs	
Fire ants (mounds) (1)	Ticks	
Fleas		
Gnats		

Billbug adults (Such as: Bluegrass, Denver, Hunting) (3)	3.2 - 6.5 fl oz	4.3 - 8.6 qt
Annual bluegrass weevil ( <i>Hyperodes</i> ) (4)	6.5 fl oz	8.6 qt
Black turfgrass ataenius adults (5)		
Mole crickets (6)		
White grubs (Such as: Black turfgrass ataenius, European chafer, Japanese beetle larvae, and Northern and Southern masked chafers) (7)	6.5 - 12.9 fl oz	8.6 - 17.2 qt

#### Specific Directions:

1. For individual fire ant mounds apply Lorsban 12.6% as a drench. Dilute 4.3 fl oz per 4 gallons of water. Gently sprinkle 1 to 2 gallons of the diluted insecticide over the surface of each mound and surrounding areas to a 2 foot diameter. For best results, apply in cool weather, 65-80° F, or in early morning or late evening hours. Treat new mounds as they appear. Pressurized sprays may disturb the ants and cause migration, reducing product effectiveness.
2. For sod webworms, watering or mowing of the treated area should be delayed for 12 to 24 hours after treatment.
3. For billbugs, spray early in the season just prior to or coinciding with first appearance of adults as recommended by your local Agricultural Extension Service Specialist.
4. To control annual bluegrass weevil, spray suspected problem areas in mid-April and again in Mid-May, or as recommended by your local Agricultural Extension Service Specialist.
5. For black turfgrass ataenius adults, spray early in the season as recommended by your local Agricultural Extension Service Specialist. A repeat application may be needed 1 to 2 weeks later.
6. To control mole crickets in turfgrass, apply Lorsban 12.6% through high pressure injection or other suitable subsurface placement application equipment. Depending on the application equipment used, follow the manufacturer's recommendation for calibration and the volume of spray per acre needed to provide control or as recommended by your local Agricultural Extension Service Specialist. For best results, apply when young nymphs are active.
7. For white grubs, spray when grubs are young and actively feeding near the soil surface, usually during late July and August or as recommended by your local Agricultural Extension Service Specialist. For best results, soil should be moist prior to treatment. For best results, immediately after spraying, irrigate the treated area with 1/2 to 1 inch of water to wash the insecticide deep into the thatch or into the underlying soil.

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### Subterranean Termites

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Lorsban 12.6% termiticide as a soil treatment may be used to establish a barrier that is lethal to termites. In order to provide an effective barrier between the wood in the structure and termite colonies in the soil, the chemical emulsion must be dispersed so as to avoid untreated gaps in the barrier.

It is important 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.

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#### Postconstruction Use:

For use outside structures only. For postconstruction use, this product may be applied only as spot or local barrier treatments with a maximum end-use dilution of 0.5%. Spot treatments not to exceed 25% of the amount required to treat the entire structure at the label rate. Areas

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treated must be inspected annually for signs of reinfestation. Postconstruction applications may be made until December 31, 2002. Thereafter, postconstruction use of this product is prohibited.

#### General Use Precautions

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

When treating adjacent to an existing structure, the applicator must check the areas to be treated, and immediately adjacent areas of the structure for visible and accessible cracks and holes to prevent any leaks or significant exposures to persons occupying the structure. People present or residing in the structure during application must be advised to remove their pets and themselves from the structure if they see any signs of leakage. After application, the applicator is required to check for leaks.

All leaks resulting in the deposition of termiticide in locations other than those prescribed on this label must be cleaned up prior to leaving the application site. Do not allow people or pets to contact contaminated areas or to reoccupy the contaminated areas of the structure until the cleanup is completed.

Retreatment for subterranean termites can only be performed if there is clear evidence of reinfestation or disruption of the barrier due to construction, excavation, or landscaping and/or evidence of the breakdown of the termiticide barrier in the soil. These vulnerable or reinfested areas may be retreated in accordance with application techniques described in this product's labeling. The timing and type of these retreatments will vary, depending on factors such as termite pressure, soil types, soil conditions and other factors that may reduce the effectiveness of the barrier.

Annual retreatment of the structure is prohibited unless there is clear evidence that reinfestation or barrier disruption has occurred.

Contamination of public and private water supplies must be avoided by following these minimum precautions:

1. Use anti-back flow equipment or procedures to prevent siphonage of pesticide back into water supplies.
2. Do not treat soil that is water saturated or frozen
3. Do not treat while precipitation is occurring.
4. Consult Federal, state and local specifications for information regarding approved treatment practices in your area.
5. Do not contaminate wells or cisterns. See specific "Treatment of Structures with Wells, Cisterns or Other Bodies of Water Adjacent to Treated Sites".

#### Site Preparation Guidelines

- A dilution rate of 0.5% is required for all termiticide applications.
- A 1.0% to 2.0% dilution may be used to protect underground utility cable and conduit and utility poles and fence posts in non-residential areas.



Table 1 - Dilution Directions

Gallons of Finished Dilution Desired	Lorsban 12.6% Needed		
	0.5%	1.0%	2.0%
1	5.7 fl oz	10.4 fl oz	22.8 fl oz
5	28.7 fl oz	57.3 fl oz	3.6 qt
10	1.8 qt	3.6 qt	7.2 qt
24	4.3 qt	8.6 qt	17.2 qt
48	8.6 qt	17.2 qt	8.6 gal
97	4.3 gal	8.6 gal	17.2 gal

**Mixing Directions**

It is important that the termiticide dilution be uniformly mixed in the spray tank before beginning the treatment. Once mixed, Lorsban 12.6% will not settle out in the tank although the initial mixing will be enhanced by agitation, circulation through the treating hose, and the filling process.

1. Fill tank 1/4 to 1/3 full.
2. Start pump to begin by-pass agitation and place end of treating tool in tank to allow circulation through hose.
3. Add appropriate amount of Lorsban 12.6%.
4. Add remaining amount of water.
5. Let pump run and allow recirculation through the hose for 2 to 3 minutes.

**Application Volume**

To provide maximum control and protection against termite infestation, apply the specified volume of the finished water emulsion and active ingredient as set forth in the Directions for Use section of this label. If soil will not accept the labeled application volume, such as heavy, clay-type soils, the volume may be reduced provided there is a corresponding increase in concentration so that the amount of active ingredient applied to the soil remains the same. This would also apply to sensitive areas and/or horizontal applications where less volume may be desirable. Minimum volumes will be specified in the appropriate use directions. In light textured soils such as sand or gravel that accept larger amounts of water, increased volumes that deliver the appropriate concentration of termiticide in the soil may be used. Maximum volumes will be specified in the appropriate use directions. Note: Large reductions of application volume reduce the ability to obtain a continuous barrier. Variance is allowed when volume and concentration are consistent with label directed rates and a continuous barrier can still be achieved.

**Do not contaminate wells or cisterns.**

Do not contaminate wells or cisterns.

1. **Structures With Wells/Cisterns Inside Foundations:** Structures that contain wells or cisterns within the foundation of a structure can only be treated using the following techniques:
  - a. Do not treat soil while it is beneath or within the foundation or along the exterior perimeter of a structure that contains a well or cistem. The treated backfill method may be used if soil is removed and treated outside/away from the foundation. The treated backfill technique is described as follows:
    - (1) Trench and remove soil to be treated onto heavy plastic sheeting or similar material or into a wheelbarrow.
    - (2) Treat the soil at the rate of 4 gallons of dilute emulsion per 10 linear feet per foot of depth of the trench, or 1 gallon per 1.0 cubic feet of soil. See "mixing Directions" section of this label. Mix thoroughly into the soil taking care to contain the liquid and prevent runoff or spillage.

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- (3) After the treated soil has absorbed the diluted emulsion, replace the soil into the trench.
- b. Infested and/or damaged wood in place may be treated using an injection technique such as described in the "Control of Wood Infesting Insects" section of this label.
2. **Structures With Adjacent Wells/Cisterns and/or Other Water Bodies:** Applicators must inspect all structures with nearby water sources such as wells, cisterns, surface ponds, streams, and other bodies of water and evaluate, at a minimum, the treatment recommendations listed below prior to making an application.
- a. Prior to treatment, if feasible, expose the water pipe(s) coming from the well to the structure, if they enter the structure within 3 feet of grade.
- b. Prior to treatment, applicators are advised to take precautions to limit the risk of applying the termiticide into subsurface drains that could empty into any bodies of water. These precautions include evaluating whether application of the termiticide to the top of the footer may result in contamination of the subsurface drain. Factors such as depth to the drain system and soil type and degree of compaction should be taken into account in determining the depth of treatment.
- c. When appropriate (i.e., on the water side of the structure), the treated backfill technique (described above) can also be used to minimize off-site movement of termiticide.

**Areas treated with 0.5% or less must be reinspected annually for signs of reinfestation.**

Preconstruction applications are defined as those applications made prior to the finished grade being installed. Effective Preconstruction treatment for subterranean termite prevention requires the establishment of vertical and/or horizontal chemical barriers between wood in the structure and the termite colonies in the soil. Follow state and local regulations to meet minimum treatment standards for preventive Preconstruction treatments. **IN FLORIDA:** *The vertical barrier application is required to complete the preconstruction application. After completion, a consumer notice must be posted in an accessible location on or in the structure that informs the consumer that the soil under and around the structure has been treated for the prevention of termites and contains the following information: date of application, identity of treatment provider, and the need for annual inspection and renewal of treatment contract.*

**Do not apply at a lower dosage and/or concentration than specified on this label for applications prior to installation of the finished grade.**

Prior to each application, applicators must notify the general contractor, construction superintendent, or similar responsible party, of the intended termiticide application and intended sites of application and instruct the responsible person to notify construction workers and other individuals to leave the area to be treated during application and until the termiticide is absorbed into the soil.

See "Rate Determination Guidelines" and "Table 1" for dilution directions.

1. For **horizontal barriers**, applications shall be made using a low pressure spray (not to exceed 50 psi when measured at the treating tool to minimize exposure and potential for drift) after grading is completed and prior to the pouring of the slab or footing.
  - a. Apply 1 gallon of dilution per 10 square feet or use 5.7 fluid ounces of Lorsban 12.6% per 10 square feet in sufficient water (no less than 1/2 gallon or more than 2 gallons) to provide thorough and continuous coverage of the area being treated (See Application Volume section).

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If the fill is washed gravel or other coarse material, it is important that a sufficient amount of dilution be used to reach the soil substrate beneath the coarse fill.

- b. If concrete slabs cannot be poured over the soil the same day it has been treated, a vapor barrier should be placed over the treated soil to prevent disturbance of the termiticide barrier.
2. For **vertical barriers**, apply the 0.5% end-use dilution at a rate of 4 gallons per 10 linear feet per foot of depth. Establish vertical barriers in areas such as around foundations, plumbing lines, backfilled soil against foundation walls and other areas that may warrant more than just a horizontal barrier.
    - a. When treating foundations deeper than 4 feet, apply the termiticide as the backfill is being replaced, or if the construction contractor fails to notify the applicator to permit this, treat the foundation to a minimum depth of 4 feet after the backfill has been installed. The applicator must trench and rod into the trench or trench along the foundation walls and around pillars and other foundation elements, at the rate prescribed from grade to a minimum depth of 4 feet. When the top of the footing is exposed, the applicator must treat the soil adjacent to the footing to a depth not to exceed the bottom of the footing. However, in no case should a structure be treated below the footing.
    - b. Trenches need not be wider than 6 inches. Treat soil with the dilution as it is being replaced in the trench.

Apply 4 gallons of dilution per 10 linear feet per foot of depth or 22.9 fluid ounces of Lorsban 12.6% per 10 linear feet per foot of depth from grade to top of footing in sufficient water (not less than 2 gallons or more than 8 gallons) to ensure complete coverage.

- c. Hollow block foundations or voids of masonry can be treated to make a complete chemical barrier especially if the soil was not treated prior to pouring the footing. Apply the dilution at a rate of 2 gallons per 10 linear feet so that it reaches the top of the footing.
  - d. For crawl spaces, establish a vertical barrier on both sides of the foundation and around all piers and areas where underground utilities exit the soil. Do not apply the dilution to the entire surface area intended as the crawl.
3. For **plenum type structures** that use a sealed underfloor space to circulate heated and/or cooled air throughout the structure. Apply the 0.5% dilution at the rate of 4 gallons per 10 linear feet per foot of depth. Soil adjacent to both sides of foundation walls, supporting piers, plumbing and conduits should be treated by trenching or rodding, where soil conditions permit, to a depth of 6 inches or, if less shallow, to the top of the footing. When conditions will not permit trenching or rodding, surface application adjacent to interior foundation walls may be made but the treated strip shall not exceed a width of 18 inches, horizontally, from the foundation walls, piers or pipes. The surface application should be made at a rate of 1 gallon per 10 square feet as a very coarse spray under low pressure (not to exceed 20 psi. when measured at the treating tool). After soil treatment, a continuous vapor barrier of at least 6 mil polyethylene film or other suitable vapor barrier must be installed on the ground surface over the entire subfloor area and on the inside of the plenum walls, in accordance with the recommended practices for plenum type structures.

**Postconstruction applications are defined as those applications made after the final grade is installed.**

**Use Limitations on Postconstruction Application:** Post construction use of this product is limited to local and spot applications (see "Important Use Limitations" section at the beginning of the "Directions for

Use" section). Spot or local treatments may be used to control active termite infestations or used preventatively. Complete barrier treatments for postconstruction application are prohibited.

**Treatment of Active Termite Infestations:** Spot and local application of this product must be limited to portions of the structure containing active termite infestations and underlying soil containing nesting sites. The extent of treatment must be limited to portions of the structure necessary to bring an existing termite infestation under control. When used as a spot or local application, it is recommended that Lorsban 12.6% be used in conjunction with the Sentricon® Colony Elimination System as part of an integrated pest management program to ensure continued protection of the entire structure.

**Preventative Use:** Preventative use is recommended in conjunction with the use of the Sentricon® Colony Elimination System as a part of the integrated pest management (IPM) program for control of subterranean termites. As a preventative treatment, Lorsban 12.6% may be used as a spot or local application in critical areas of the structure including plumbing and utility entry sites, bath traps, expansion joints, foundation cracks or other areas where termites may find entry or infestation is suspected.

See "Rate Determination Guidelines" and "Table 1" for dilution directions.

**Precaution:** Do not apply dilution 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.

All holes in commonly occupied areas into which material has been applied must be plugged. Plugs should be of a non-cellulose material or covered by an impervious, non-cellulose material.

1. For slab-on-ground construction applications may be made using techniques such as sub-slab injection, rodding and/or trenching. Injectors should not extend beyond the tops of the footings.
  - a. Treat along the outside of the foundation to form a continuous termiticide barrier in the soil.

For shallow foundations, 1 foot or less, dig a narrow trench approximately 6 inches wide along the outside of the foundation walls. Do not dig below the bottom of the footings. For foundations with exposed footings, dig a trench alongside the footing taking care not to undermine the footing. The dilution should be applied to the trench and mixed with the soil as it is replaced in the trench.

Apply 4 gallons of the 0.5% end-use dilution per 10 linear feet or use 22.9 fluid ounces of Lorsban 12.6% per 10 linear feet in sufficient water (no less than 2 gallons or more than 8 gallons) to provide thorough and complete coverage of the area being treated (See "Application Volume").

For foundations with footings deeper than 1 foot, apply the dilution at a rate of 4 gallons per 10 linear feet per foot of depth. For applications made after the final grade is installed, the applicator must trench and rod into the trench or trench along the foundation walls and around pillars and other foundation elements at the rate prescribed from grade to the top of the footing. When the footing is more than 4 feet below grade, the applicator must trench and rod into the trench or trench along the foundation wall at the rate prescribed to a minimum depth of 4 feet. The actual depth of treatment will vary depending on soil type, degree of compaction, and location of termite activity. When the top of the footing is exposed, the applicator must treat the soil adjacent to the footing to a depth not to exceed the bottom of the footing. However, in no case should a structure be treated below the footing.

- b. When treating cracks and expansion joints in the slab, along sidewalks or patios adjacent to the exterior foundation wall or other areas where holes are to be drilled to form a

continuous termiticide barrier, the holes should be spaced at intervals up to 24 inches depending on soil type.

Hard, dry soils typically allow good lateral (horizontal) dispersion. However, they may be slow in absorption or downward movement. Care must be taken when injecting through slabs into areas with this type of soil. Low pressures should be considered in this situation. This will help to avoid backsplashing from the injection hole, backflow from cracks and expansion joints, and unwanted emergence of the termiticide dilution from adjacent drill holes. A slow, low-pressure application using the proper volume of termiticide dilution will allow the soil to absorb the liquid and provide an adequate vertical barrier. The wider drill hole spacings (18 to 24 inches) can usually be used in this situation. Sand, loam, or gravel backfill materials are commonly found under slab foundations. The type of fill, amount of settling that has occurred, moisture content, etc., will determine drill hole spacing and amount of termiticide dilution to be injected through each hole. Highly absorptive soils or those with large pore spaces (gravel, coarse sand) will afford rapid downward (vertical) movement and limited lateral (horizontal) distribution of the termiticide dilution. In this situation, consider using a lateral dispersion tip on the sub-slab injector and place the drill holes closer together (12 to 18 inches). Apply 4 gallons of 0.5% end-use dilution per 10 linear feet.

- c. It may be necessary to treat along one side of interior partition walls if there are cracks in the slab, plumbing entry points, existing termite infestations, or other conditions which would make treatment appropriate.
- d. To form a termiticide barrier under slab foundations, it may be necessary to drill and treat near plumbing and electrical entry areas, cracks, or other areas where termites might enter the structure. In this instance, one or more holes should be drilled in the slab as close to the entry point as is practical and termiticide placed in the fill. As a general rule, 3 to 5 gallons of dilution per entry point will usually give adequate coverage, however, the use of directional or lateral dispersion tips or foam delivery systems can give adequate coverage with lower volumes. Location of the drill hole in relation to the entry point, type of soil fill, presence or absence of a vapor barrier, application pressure and other considerations will affect the coverage and volume of termiticide needed to form a complete barrier. Precautions must be taken to avoid drilling into plumbing or electrical conduit.
- e. When necessary, drill through the foundation walls from the outside and force the dilution just beneath the slab either along the inside of the foundation or along all the cracks and expansion joints and other critical areas.
- f. **Bath traps:** Exposed soil or soil covered with tar or a similar type sealant beneath and around plumbing and/or drain pipe entry areas may be treated with the 0.5% end-use dilution of Lorsban 12.6%.

An access door or inspection vent should be cut and installed, if not already present. After inspection and removal of any wood or cellulose debris, the soil can be treated by rodding or drenching the soil. A one square foot bath trap will usually require about 3 to 5 gallons of dilution for thorough and complete coverage.

2. **Hollow block foundations or voids in masonry** resting on the footing can be treated to make a continuous chemical barrier in the voids. If the void has direct contact with the soil, it should be treated. Drill and treat all voids in multiple masonry elements of the structure extending from the structure to the soil in order to create a continuous treatment barrier in the area to be treated. Apply at the rate of 2 gallons of emulsion per 10 linear feet of footing using a nozzle pressure of less than 25 psi. When using this treatment, access holes must be drilled below the sill plate and should be as close as possible to the footing as is practical. Treatment of voids in block or rubble foundation walls must be closely examined. Applicators must inspect areas of possible runoff as

a precaution against application leakage in the treated areas. Some areas may not be treatable or may require mechanical alteration prior to treatment.

Not for use in voids insulated with rigid foam.

3. For **basements**, apply at a rate of 4 gallons of dilution per 10 linear feet per foot of depth. Where footings are greater than 1 foot of depth from the grade to the top of the footing, application may be made by trenching and/or rodding at a rate of 4 gallons of dilution per 10 linear feet per foot of depth. When the footing is more than 4 feet below grade, the applicator must trench and rod into the trench or trench along the foundation wall at the rate prescribed to a minimum depth of 4 feet. The actual depth of treatment will vary depending on soil type, degree of compaction, and location of termite activity. When the top of the footing is exposed, the applicator must treat the soil adjacent to the footing to a depth not to exceed the bottom of the footing. However, in no case should a structure be treated below the footing. 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, around sewer pipes, conduits and piers.
4. **Accessible Crawl Spaces:** For crawl spaces, apply vertical termiticide barriers at the rate of 4 gallons of emulsion per 10 linear feet per foot of depth from grade to top of footing, or if the footing is more than 4 feet below grade, to a minimum depth of 4 feet.

Apply 4 gallons of the 0.5% end-use dilution per 10 linear feet per foot of depth or 22.9 fluid ounces of Lorsban 12.6% per 10 linear feet per foot of depth from grade to top of footing in sufficient water (not less than 2 gallons or more than 8 gallons) to ensure complete coverage.

Apply by trenching and rodding into the trench, or trenching. Treat both sides of foundation and around all piers and pipes. Where physical obstructions, such as concrete walkways adjacent to foundation elements, prevent trenching, treatment may be made by rodding alone. When soil type and/or conditions make trenching prohibitive, rodding may be used. When the top of the footing is exposed, the applicator must treat the soil adjacent to the footing to a depth not to exceed the bottom of the footing. Read and follow the mixing and use direction section of the label if situations are encountered where the soil will not accept the full application volume.

- a. Rod holes and trenches shall not extend below the bottom of the footing.
  - b. Rod holes shall be spaced so as to achieve a continuous chemical barrier but in no case more than 12 inches apart.
  - c. Trenches shall be a minimum of 6 inches deep or to the bottom of the footing, whichever is less, and need not be wider than 6 inches. When trenching in sloping (tiered) soil, the trench shall be stepped to ensure adequate distribution and to prevent termiticide from running off. The emulsion must be mixed with the soil as it is replaced in the trench.
  - d. When treating crawl spaces, turn off the air circulation system of the structure until application has been completed and all termiticide has been absorbed by the soil.
5. **Inaccessible Crawl Spaces:** For inaccessible interior areas, such as areas where there is insufficient clearance between floor joists and ground surfaces to allow operator access, excavate if possible, and treat according to the instructions for accessible crawl spaces. Otherwise, apply one or a combination of the following two methods.

Apply 4 gallons of the 0.5% end-use dilution per 10 linear feet or 22.9 fluid ounces of Lorsban 12.6% per 10 linear feet in sufficient water (not less than 2 gallons or more than 8 gallons) to ensure complete coverage (See "Application Volume").

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- a. To establish a horizontal barrier, apply 1 gallon of emulsion per 10 sq ft to the soil surface. Use a nozzle pressure of less than 25 psi and a coarse application nozzle (e.g., Delavan Type RD Raindrop, RD-7 or larger, or Spraying Systems Co. 8010LP TeeJet or comparable nozzle). For an area that cannot be reached with the application wand, use one or more extension rods to make the application to the soil. Do not broadcast or powerspray with higher pressures.
- b. To establish a horizontal barrier, drill through the foundation wall or through the floor above and treat the soil perimeter at a rate of 1 gallon of emulsion per 10 square feet. Drill spacing must be at intervals not to exceed 16 inches. Many states have smaller intervals so check state regulations that may apply.

When treating crawl spaces, turn off the air circulation system of the structure until application has been completed and all termiticide has been absorbed by the soil.

- c. In the presence of unsupported termite tubes, mechanically destroy each tube and apply approximately 1 pint of the end-use dilution to an area of no more than 18 inches in diameter where the tubes emerged from the soil.
6. In plenum type structures, which use a sealed underfloor space to circulate heated and/or cooled air within the structure, turn off the air circulation system of the structure until application has been completed and all termiticide has been absorbed by the soil. Apply the 0.5% end-use dilution at the rate of 4 gallons per 10 linear feet per foot of depth. Soil adjacent to both sides of foundation walls, supporting piers, plumbing and conduits should be treated by trenching or rodding, where soil conditions permit, to a depth of 6 inches or to the top of the footing. When conditions will not permit trenching or rodding, a surface application adjacent to interior foundation walls may be made, but the treated strip shall not exceed a width of 18 inches, horizontally, from the foundation piers or pipes. Surface application is made at a rate of 1 gallon per 10 square feet as a very coarse spray under low pressure (not to exceed 20 psi. when measured at the treating tool). In order to properly calculate the amount of termiticide dilution needed, use the following guideline: A strip 18 inches wide and 6 feet 8 inches long is equal to 10 square feet. Before treatment, a barrier of at least 6-mil polyethylene film or other suitable vapor barrier must be present on this ground surface over the entire subfloor area in accordance with recommended practices for plenum type structures. Install a new vapor barrier if barrier is absent or deteriorated. The vapor barrier film on the ground and foundation walls must be folded back from the areas to be treated prior to treatment and replaced immediately following treatment. Structures should be ventilated during application and until treatment is dry.
  7. **Application using foam-generating equipment:** The emulsion may be converted to a foam and the foam used to control or prevent termite infestations.

Depending on circumstances, foam applications may be used alone or in combination with liquid emulsion applications. Applications may be made behind veneers, piers, chimney bases, into rubble foundations, into block voids or structural voids, under slabs, stoops, porches, or to the soil in crawl spaces, and other similar voids.

Foam and liquid application must be consistent with volume and active ingredient instructions in order to ensure proper application has been made. The volume and amount of active ingredient are essential to an effective treatment. At least 50 to 75% of the labeled liquid emulsion volume of product must be applied, with the remaining percent delivered to appropriate areas using foam application. Refer to the label and use recommendations of the foam manufacturer and the foaming equipment manufacturer for adjuvant rates to produce the needed expansion ratio with this product.

Foam applications are generally a good supplement to liquid treatments in difficult areas, but may be used alone in difficult spots.

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The following provides the amount of Lorsban 12.6% required for a given area and volume range of the prefoamed termiticide dilution necessary for application of the product.

For a 0.5% rate, apply 22.9 fluid ounces of Lorsban 12.6% per 10 linear feet using no less than 2 gallons, or more than 8 gallons, of prefoamed dilution.

#### **Underground Utility Cable and Conduit (Non-Residential)**

**Preventative Treatment for Use Only in Guam, Hawaii, and Other Pacific Islands:** Use a 1.0% to 2.0% dilution (See "Rate Determination Guidelines" and "Table 1" for dilution directions). After digging the trench, place approximately 6 inches of backfill or sand at the bottom and apply 2 gallons of the dilution per 10 linear feet. Allow treatment to dry then replace the cable backfill. Cover with an additional 6 inches of backfill or sand and apply another 2 gallons of emulsion per 10 linear feet. Finish filling trench with untreated soil.

Wherever cables emerge from the soil to enter poles, light frames, etc., treat the soil around the cable and pole or frame to establish a continuous 6-inch chemical barrier.

A continuous 6-inch chemical barrier must be established around the cable to insure protection from termite attack.

#### **Underground Poles (Non-Residential)**

**Preventative Treatment:** Use a 1.0 to 2.0% dilution (See "Rate Determination Guidelines" and "Table 1" for dilution directions). After pole or post hole has been dug, mix the dilution with the soil as it is being replaced to a depth of approximately 10 inches. Place pole or post on top of this layer. The remaining soil fill and termiticide dilution should be mixed while backfilling the hole. The treated soil zone around the post or pole should be approximately 6 inches wide. Soil for the base layer and backfill of each pole or post should be treated at a rate of 4 gallons of dilution per 10 cubic feet of soil.

**Remedial Treatment:** To control existing infestations or to prevent infestation of posts and poles already in place, use a 1.0% to 2.0% dilution. The termiticide dilution should be injected into termite galleries or channels in the wood. For maximum protection, injection sites should be at or below grade.

Posts or poles may also be treated by rodding down to the base of the structure. Rod holes should be placed approximately 3 inches away from the pole and about 6 inches apart. Inject approximately 12 fluid ounces of dilution per foot of depth into each rod hole.

It may be appropriate to use one or both treatment techniques depending upon the specific circumstances at the work site e.g. soil type.

### **Non-crop Uses - Pests Outdoors (Non-residential)**

Use Lorsban 12.6% for control of certain pests on outside surfaces of buildings of industrial plant sites and on golf course turfgrass and for area control of ticks and chiggers. Consult the following directions for dosage and application details to control the listed pests.

#### **Pests on Outside Surfaces of Buildings (Industrial Plant Sites Only)**

To control ants, bees, carpenter ants, clover mites, cockroaches, crickets, earwigs, hornets, millipedes, scorpions, spiders, ticks, wasps and yellowjackets.



**Outside surfaces:** Apply Lorsban 12.6% as a residual spray to outside surfaces of buildings including porches, window frames, eaves, patios, garages, refuse dumps and other areas where pests congregate or have been observed. Treatment may be repeated as needed to maintain effectiveness.

**Perimeter sprays:** To help prevent infestation of buildings, treat 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 where pests are active and may find entrance. For **scorpions**, treat or remove accumulations of lumber, firewood, and other materials that serve as insect harborage sites.

**Dosage and Mixing Instructions:** Use Lorsban 12.6% mixed as a 0.25% to 0.5% dilution as indicated in the following table:

Gallons of Finished Dilution Desired	Lorsban 12.6% Required	
	0.25% Solution	0.5% Solution
1	2.55 fl oz	5.7 fl oz
5	12.7 fl oz	25.4 fl oz
10	0.8 qt	1.6 qt
24	1.9 qt	3.8 qt
48	3.8 gal	7.6 qt
97	7.7 gal	15.4 qt

### Turf in Golf Courses, Road Medians and Industrial Plant Sites (Maximum Use Rate of 4.3 qt (1 lb a.i.)/Acre)

Labeled turf uses within this section of the label are not within the scope of the WPS. Follow reentry requirements in the "Non-agricultural Use Requirements" box under "Directions for Use".

Use Dursban 4E-N to control the pests listed in the following table by application at the recommended dosages. Dilute Dursban 4E-N in water and apply using suitable application equipment. For best results, turf should be moist at time of treatment.

Pest	Amount of Dursban 4E-N per	
	1,000 sq. ft.	Acre
Ants	3.2 fl oz	4.3 qt
Grasshoppers		
Amyworms (Such as: Beet, Fall, Yellowstriped)	3.2 fl oz	4.3 qt
Greenbug aphids		
Centipedes	3.2 fl oz	4.3 qt
Green June beetle grubs		
Chiggers (1)	3.2 fl oz	4.3 qt
Leafhoppers		
Chinch bugs	3.2 fl oz	4.3 qt
Lucerne moth		
Crickets	3.2 fl oz	4.3 qt
Millipedes		
Cutworms	3.2 fl oz	4.3 qt
Mites (Such as: Clover, Bermudagrass stunt, Winter grain)		
Deer ticks (2)	3.2 fl oz	4.3 qt
Mosquitoes (3)		
Earwigs	3.2 fl oz	4.3 qt
Pillbugs		
European crane fly larvae	3.2 fl oz	4.3 qt
Sod webworms (lawn moths) (4)		
Fiery skipper	3.2 fl oz	4.3 qt
Sowbugs		
Fire ants (foraging workers)	3.2 fl oz	4.3 qt
Ticks (1)		
Fleas		
Gnats		

#### Specific Directions:

1. Use Dursban 4E-N for area control of ticks and chiggers infesting golf courses, road medians, and industrial plant sites where these pests are present and create a nuisance or a possible public health problem. Do not allow public use of treated areas during application or until spray has dried. Apply Dursban 4E-N insecticide in water at the rate of 2.2 pint per acre (0.8 fl oz per 1,000 sq ft) using a hydraulic sprayer, mist applicator, backpack sprayer, or other suitable hand- or power-operated spray equipment.

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2. For control of deer ticks apply Dursban 4E-N in water at the rate of 4.3 quart per acre or 3.2 fl oz per 1,000 sq ft. Treat low underbrush, turf, grassy areas, weeds, and ground surface and debris, using enough spray volume to obtain thorough coverage.
3. Mosquitoes coming to rest on areas treated for control of turf pests will be controlled for varying periods of time after treatment depending on exposure of treated areas to weathering conditions.
4. For sod webworms, watering or mowing of the treated area should be delayed for 12 to 24 hours after treatment.

### **Treatment of Fire Ant Mounds (Includes Residential and Non-residential Areas)**

For individual fire ant mounds apply Dursban 4E-N as a drench. Dilute 4.3 fl oz per 4 gallons of water. Gently sprinkle 1 to 2 gallons of the diluted insecticide over the surface of each mound and surrounding areas to a 2-foot diameter. For best results, apply in cool weather, 65-80°F, or in early morning or late evening hours. Treat new mounds as they appear. Pressurized sprays may disturb the ants and cause migration, reducing product effectiveness.

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### **Terms and Conditions of Use**

If terms of the following Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies are not acceptable, return unopened package at once to the seller for a full refund of purchase price paid. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under Warranty Disclaimer, Inherent Risks of Use and Limitations of Remedies.

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### **Warranty Disclaimer**

Dow AgroSciences warrants that Glyphomax Plus conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. Dow AgroSciences MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

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### **Inherent Risks of Use**

It is impossible to eliminate all risks associated with use of Glyphomax Plus. Crop injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of Dow AgroSciences or the seller. All such risks shall be assumed by buyer.

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### **Limitation of Remedies**

The exclusive remedy for losses or damages resulting from Glyphomax Plus (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at Dow AgroSciences' election, one of the following:

- (1) Refund of purchase price paid by buyer or user for product bought, or
- (2) Replacement of amount of product used.

Dow AgroSciences shall not be liable for losses or damages resulting from handling or use of Glyphomax Plus unless Dow AgroSciences is promptly notified of such loss or damage in writing. In no case shall Dow AgroSciences be liable for consequential or incidental damages or losses.

The terms of the Warranty Disclaimer and Inherent Risks of Use above and this Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of Dow AgroSciences or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner.

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