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239-2513

11/13/97

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

NOV 13 1997

Frank Kamienski
The Solaris Group
P.O. Box 5006
San Ramon, California 94583

Dear Mr. Kamienski:

Subject: Labeling Amendment
Ortho-Klor Soil Insect & Termite Killer
EPA Reg. No. 239-2513
Your submission dated 16 October 1997

The labeling referred above to submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, has been received, and reviewed and the labeling submitted to comply with PR Notice 96-7, Termiticide Labeling is acceptable subject to the comment listed below. Please submit three (3) copies of your final printed labeling incorporating the changes prior to releasing your product for shipment. A stamped copy is enclosed for your records.

Under the Heading Subset II, add the phrase "For Outdoor, Homeowner Post Construction Use Only" under the phrase "Plus Prevents Termite Infestation"

Sincerely,

A handwritten signature in black ink, appearing to be "L Cole".

Leonard Cole
Insecticide-Rodenticide Branch
Registration Division (7505C)

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ORTHO ORTHO-KLOR Soil Insect & Termite Killer, EPA Reg. No. 239-2513

SUBSET I. [9/10/96]: ABN: ORTHO Borer & Leaf Miner Spray

[ICON] Outdoor Use Only

Contains: DURSBAN® Soil Insecticide

[9/16/96]: Concentrate

For Use in Tank Sprayers, Hose-End Applicators, Or Sprinkling Cans

Controls All Major Lawn Pests

Kills Insects that Damage Ornamentals, Shade Trees, and Fruit Trees

Kills Borers and Leafminers

[9/16/96]: Kills Pine Beetles, Bronze Birch & Peachtree Borers, and many other insects.

Kills Insects: Peachtree Borer, Dogwood Borer, Lilac Borer, Leafminers, Needleminers, Leaf Beetles, Twig Borer, Pine Beetles, Elm Bark Beetles

Ideal For Use On Ornamentals, Shade Trees, and Fruit Trees

[9/16/96]: Use on Shrubs & Trees

Can be Applied as a Foliar Spray

Can be Applied as a Trunk Spray

Can be Applied with Ortho Hose-End Applicators

Active Ingredient

Chlorpyrifos* [~~0,0 diethyl 0-(3,5,6-Trichloro-2-pyridyl)phosphorothioate~~].....12.6%

Inert Ingredients87.4%

* This product contains aromatic petroleum solvent.

KEEP OUT OF REACH OF CHILDREN

WARNING

See back panel booklet for additional precautionary statements.

NET CONTENTS 64 FL OZ (1/2 GAL) 1.89 L

NET CONTENTS 32 FL OZ (1 QT) 946 mL

NET CONTENTS 16 FL OZ (1 PT) 473 mL

ACCEPTED FOR REGISTRATION IN EPA LABELING
NOV 13 1997
Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 239-2513

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FOR OUTDOOR HOME & GARDEN USE ONLY

[9/16/96]: An easy to apply product to control borers and leaf miners that attack ornamental plants/trees, fruit trees and shade trees. For use in tank sprayers and hose-end applicators.

Specially formulated for residential use.

Peel open for use directions and further information

~~Repeated text below deleted~~

~~WARNING: Causes eye irritation. Harmful if swallowed. Do not get in eyes, on skin or clothing. Avoid breathing vapors and spray mist.~~

SEE ADDITIONAL PRECAUTIONARY STATEMENTS AND DIRECTIONS INSIDE BOOKLET.

PULL HERE TO OPEN LABEL. PRESS TO RESEAL

~~[10/16/97]: REPEATED TEXT BELOW DELETED~~

~~Medical Information call 1-800-454-2333~~

~~Product Information call 1-800-225-2883~~

~~ORTHO®, DIAL 'n' SPRAY® Trademarks of Monsanto Company
DURSBAN® Trademark of DowElanco~~

~~©Monsanto Company 1996~~

~~Manufactured For
The Solaris Group of
Monsanto Company
P.O. Box 5008
San Ramon CA 94583-0808
Form 07-741-02
Product 5522
EPA Reg. No. 239-2513
EPA Est. 239-IA 3[±], 58996-MO-1[±]
Superscript is first letter of lot number~~

Made in USA

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DIRECTIONS FOR USE

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

READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH LABEL PRECAUTIONARY STATEMENTS AND DIRECTIONS.

tsp = teaspoon

Tbs = Tablespoon

4 fl oz = 1/2 cup

2 Tbs equal = 1 fl. oz.

SHAKE WELL BEFORE USING

Repeated Text Below Deleted.

~~ORTHO-KLOR Soil Insect & Termite Killer is an easy to apply product to control lawn insects, home invading pests, fire ants, wood destroying insects including exposed termites, and borers that attack ornamental plants/trees, fruit trees, and shade trees. When used as directed, it helps plants, lawns and gardens stay vigorous, healthy, and green by controlling bugs that cause problems.~~

[9/16/96]: BORERS & LEAFMINERS ON TREES & SHRUBS

Application timing is important. Consult your County Cooperative Extension Agent for proper time to treat.

<u>Pests</u>	<u>Trees Or Shrubs</u>	<u>Product to Measure When To Apply</u>
<u>Beetles (Cottonwood Leaf, Elm Leaf, Flea, Willow Leaf)</u>	<u>Cottonwood, Elm, Willow</u>	<u>4 tsp./gal. of water. Apply when pests appear. Thoroughly wet upper and lower leaf surfaces. Reapply at 7 to 10 day intervals if needed.</u>
<u>Weevils (Black Vine, Yellow Poplar, Pine)</u>	<u>Rhododendron, Poplar, Pine</u>	

<u>Borers (Ash, Dogwood, Lesser Peachtree, Lilac, Oak, Rhododendron, Bronze Birch, Flatheaded Appletree, Locust, Red Oak)</u>	<u>Ash, Lilac, Oak, Dogwood, Rhododendron, Birch, Locust</u>	<u>1-1/2 fl. oz. (3 Tbs.)/ gal. of water. Spray trunks and lower limbs of trees and shrubs when adults begin to emerge.</u>
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<u>Leafminers</u>	<u>Elm, Birch, Locust</u>	<u>1-1/2 fl. oz. (3 Tbs.) / gal. of water.</u> <u>Spray when leafminers appear in early and Mid-May.</u>
<u>Needleminers</u>	<u>Pine, Spruce</u>	<u>1-1/2 fl. oz. (3 Tbs.) / gal. of water.</u>
<u>Beetles (Ambrosia, Black Turpentine, European Elm Bark, Japanese, June, Southern Pine, Spruce)</u>	<u>Elm, Pine Spruce</u>	<u>10-2/3 fl. oz. (1-1/4 cups) / gal. of water</u> <u>Apply with tank sprayer only.</u> <u>To prevent infestation, spray the tree trunk in early Spring. To treat infested trees, spray the tree trunk before adult beetles begin to emerge.</u> <u>Avoid contact with foliage to prevent leaf damage.</u>

Note: Do not use on vegetables. ~~or food crops.~~ Do not use on azaleas, camellias, poinsettias, rose bushes or variegated ivy because of possible injury to these plants.

~~[9/16/96]: TREES AND SHRUBS~~

~~Borers & Leafminers~~

~~Cottonwood, Elm, Willow — Cottonwood [9/16/96]: Leaf Beetles, Elm Leaf Beetles, Flea Beetles, Willow Leaf Beetles, Rhododendron, Poplar, Pine — Blackvine Weevils, Yellow Poplar Weevils, Pine Weevils: Use 4 tsp in 1 gal of water. Apply when pests appear. Thoroughly wet upper and lower leaf surfaces. Reapply at 7 to 10 day intervals if needed.~~

~~Ash, Lilac, Oak, Dogwood, Rhododendron, Birch, Locust — Ash Borers, Dogwood Borers, Lesser Peachtree Borers, Lilac Borers, Oak Borers, Rhododendron Borers, Bronze Birch Borers, Flatheaded Appletree Borers, Locust Borers, Red Oak Borers — Spray [9/16/96]: trunks and lower limbs of trees and shrubs when adults begin to emerge; Elm, Birch, Locust — Leafminers — Spray in early~~

~~and mid May when leafminers appear; Pine, Spruce Needleminers: Use 1 1/2 fl oz (3 Tbs) in 1 gal of water. Elm, Pine, Spruce Ambrosia Beetles, Black Turpentine Beetles, European Elm Bark Beetles, Japanese Beetles, June Beetles, Southern Pine Beetles, Spruce Beetles: Use 10 2/3 fl oz (1 1/4 cups) in 1 gal of water. Apply only with a tank sprayer. To prevent infestation, spray [9/16/96]: the tree trunk in early Spring. To treat infested trees, spray [9/16/96]: the tree trunk before adult beetles emerge.~~

[9/16/96]: Application timing is important. Consult your County Cooperative Extension Agent for proper time to treat.

<u>Pests</u>	<u>Fruit Trees</u>	<u>Product to Measure When to Apply</u>
<u>Dogwood Borer</u>	<u>Apples</u> <u>Wait 1 month after last application before harvesting fruit.</u>	<u>2 fl. oz. (4 Tbs.)/gal. of water. Soak tree trunks and the soil around the base of trees in the spring. Apply up to 8 times per season. Wait 3 weeks between treatments.</u>
<u>Borers (Lesser Peachtree, Great Peachtree, American Plum)</u>	<u>Sweet Cherries</u> <u>Wait 1 week after application before harvesting fruit.</u>	<u>2 fl. oz. (4 Tbs.)/gal. of water. Spray trunks and lower limbs. Avoid contact with foliage to prevent leaf damage. Apply up to 3 times per season. Apply second application 2 weeks after the first. Make third application after harvest.</u>
<u>Borers (American Plum, Lesser Peachtree, Pacific Flatheaded, Peach Twig, Peachtree, Shothole)</u>	<u>Sour Cherries</u> <u>Wait 2 weeks after application before harvesting fruit.</u>	<u>2 fl. oz. (4 Tbs.)/gal. of water. Spray tree trunks and lower limbs. Apply up to 8 times per season.</u>
<u>Peachtree Borers</u>	<u>Nectarines, Peaches</u> <u>Wait 2 weeks after application before</u>	<u>4 fl. oz. (8 Tbs.)/gal. of water. Spray bark from the ground up to the</u>

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Pests	Fruit Trees	Product to Measure When to Apply
	<u>harvesting fruit.</u>	<u>lower branches.</u> <u>Do not spray fruit.</u> <u>Make only 1</u> <u>application per</u> <u>year.</u>

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~~[9/16/96]: FRUIT TREES~~

~~Apples—Dogwood Borer: Use 2 fl oz (4 Tbs) in 1 gal of water. Starting in the Spring, spray 9/16/96]: soak tree trunks and soil around the base of trees. Apply up to 8 times per season. Wait 3 weeks before reapplying. Wait 1 month after last spraying before harvesting fruit.~~

~~Sweet Cherries—Lesser Peachtree Borers, Great Peachtree Borers, American Plum Borers: Use 2 fl oz (4 Tbs) in 1 gal of water. Spray trunks and lower limbs. To prevent leaf damage, avoid foliage contact. Apply up to 3 times per season. Wait 2 weeks before reapplying. Wait 1 week after spraying 9/16/96]: application before harvesting fruit. Make 3rd application after harvest.~~

~~Sour Cherries—American Plum Borers, Lesser Peachtree Borers, Pacific Flatheaded Borers, Peach Twig Borers, Peachtree Borers, Shothole Borers. Use 2 fl oz (4 Tbs) in 1 gal of water. Spray 9/16/96]: tree trunks and lower limbs. Apply up to 3 times per season. Wait 2 weeks after spraying 9/16/96]: application before harvesting fruit. Consult your Extension Service Specialist for the best time to treat.~~

~~Nectarines, Peaches—Peachtree Borers: Use 4 fl oz (8 Tbs) in 1 gal of water. Application timing is important. Consult your Extension Service Specialist for proper time to treat. Spray bark from the ground up to the lower branches. Do not spray fruit. Make only 1 application per year. Wait 2 weeks after spraying 9/16/96]: application before harvesting fruit.~~

STORAGE AND DISPOSAL

STORAGE: Store in original container in a safe place. Keep from freezing. **DISPOSAL:** Do not reuse container. Securely wrap partially filled or empty container in newspaper and put in trash.

STORAGE: Keep pesticide in original container. Do not put concentrate or dilute into food or drink containers. Avoid contamination of feed, foodstuffs and domestic water supplies. Store in a cool, dry place, preferably in a locked storage area. Do not store diluted spray. Store above freezing. Handle concentrate in a ventilated area. Keep container closed.

DISPOSAL: PRODUCT Partially filled bottle may be disposed of by securely wrapping original container in several layers of newspaper and discard in trash. CONTAINER Do not reuse empty bottle. Rinse thoroughly before discarding in trash.

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PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

WARNING: Causes substantial but temporary eye injury, eye irritation. Harmful if swallowed or inhaled. Do not get in eyes, on skin or clothing. Avoid breathing vapors or and spray mist. Handle concentrate in ventilated area. Wear long-sleeved shirt, long pants, socks, shoes, rubber gloves and safety glasses. Wash thoroughly with soap and water after handling, and before eating or smoking. Remove contaminated clothing and wash clothing before reuse. Do not wear contaminated clothing or shoes. Keep away from food, feedstuffs and domestic water supplies. REENTRY CHILD/ PET ICON]: People and pets may enter treated area after application has dried. Keep children and pets out of treated areas until these areas are dry.

FIRST AID: IF SWALLOWED: Immediately telephone a poison control center, emergency treatment center or a physician for advice. DO NOT make person vomit. Product contains petroleum distillate. May be an aspiration hazard. If medical advice cannot be obtained, then immediately take person and product container to an emergency treatment center or hospital. DO NOT make person vomit. Call a doctor immediately. IF ON SKIN: In case of contact, remove contaminated clothing and immediately wash skin with soap and water. Wash with plenty of soap and water. Get medical attention. IF IN EYES: Flush eyes with plenty of water. Call a physician and get prompt medical attention. Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention. IF INHALED: Remove person to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

Note to Physicians: Emergency Information call 1-800-225-2883/454-2333. This product contains an aromatic petroleum solvent and may present an aspiration problem. Chlorpyrifos is a cholinesterase inhibitor. If signs and symptoms of cholinesterase inhibition develop, atropine by injection is antidotal; 2-PAM may also be given in conjunction with atropine, but should never be used alone.

ENVIRONMENTAL HAZARDS: This product is toxic to fish, birds and other wildlife. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of wastes.

This product is highly toxic to bees exposed to direct treatment or residues on blooming plants. Do not apply this product if bees are visiting the treatment areas.

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

NOTICE: Buyer assumes all responsibility for safety and use not in accordance with directions.

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~~Medical Information call 1-800-454-2333~~
~~Product Information call 1-800-225-2883~~

- ☛ Questions, Comments or Medical Information
- ☛ Call 1-800-225-2883 <http://www.ortho.com>

ORTHO®, DIAL 'n SPRAY®, Trademarks of Monsanto Company
DURSBAN® Trademark of DowElanco

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Manufactured For
 The Solaris Group of
 Monsanto Company
 P.O. Box 5008
 San Ramon CA 94583-0808
 Form ~~07-741-02~~ [9/16/96]: 0-995-01
 Product 5522
 EPA Reg. No. 239-2513
 EPA Est. 239-IA-3^I, 58996-MO-1^A
 Superscript is first letter of lot number
 Made in USA

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SUBSET II. ABN: HomeDefense® Ortho-Klor® Insect & Termite Killer

[ICON] Outdoor Use Only

and instructions

[10/16/97]: FOR OUTDOOR, HOMEOWNER USE ONLY

Lawn and Nuisance Pests

Makes up to 548 Gallons of Spray [1/2 gal size only]

Makes up to 274 Gallons of Spray [1 qt. size only]

For Termites Prevention, Treats 30 Linear Feet of Trench [1/2 gal size only]

Contains: DURSBAN® Soil Insecticide

CONTROLS: Ants, Carpenter Ants, ~~Subterranean Termites~~, Powder Post Beetles, Crickets, Chinch Bugs, Wood Borers, Carpenter Bees, ~~Ants~~, Grubs, Cutworms, Fleas, Armyworms, Ticks, Mosquitoes, Grasshoppers, European Crane Fly Larvae, Fire Ants, Sod Webworms, Spiders, Boxelder Bugs, Scorpions, and many other soil ~~insects~~ and home invading pests.

Plus Prevents Termite Infestation

[9/16/96]: Concentrate

(FOR)USE: Around foundations, outside buildings, lawns, woodpiles , stored lumber and fence posts

(For) Use in Tank Sprayers, Hose-End Sprayers Applicators, or Sprinkling Cans

Controls All Major Lawn Pests

Kills Lawn Insects

Kills/Controls Ticks that Transmit Lyme Disease

Helps Keep Your Lawn Healthy - Controls Insect Pests that Can Cause Unsightly Brown Spots And Dead Grass

Kills/Controls Carpenter Ants

Active Ingredient

Chlorpyrifos [~~0,0 diethyl 0-(3,5,6-Trichloro-2-pyridyl)phosphorothioate~~].....12.6%

Inert Ingredients.....87.4%

* This product contains aromatic petroleum solvent.

KEEP OUT OF REACH OF CHILDREN

WARNING See back panel booklet for additional precautionary statements.

NET CONTENTS 64 FL OZ (1/2 GAL) 1.89 L

NET CONTENTS 32 FL OZ (1 QT) 946 mL

NET CONTENTS 16 FL OZ (I PT) 473 mL

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PEEL HERE

Open Resealable Label
for Directions & Precautions

PRESS TO RESEAL

Easy to apply with

- The Ortho® Dial n Spray® or other hose-end sprayer (picture)
- tank sprayer (picture)
- sprinkling can (picture)

Alternative Sales Copy #1

Illustrate lawn & select lawn pests such as White Grubs, Chinch Bugs, Lawn Moths & Fleas.

Illustrate a Termite

Illustrate damaged wood infested by Carpenter Ants.

Illustrate a house foundation & select pests such as Spiders, Boxelder Bugs & Ticks.

See inside label for many more uses.

Alternative Sales Copy #2

WHERE TO USE	INSECTS/PESTS
<ul style="list-style-type: none"> •. Lawns •. Outdoor Garbage Cans •. Window Frames & Doorways •. Porches & Patios •. Eaves & Foundations •. Fire Ant Mounds •. Wood Piles & Stored Lumber •. Trench Around Building Foundation 	Ants, Boxelder Bugs, Carpenter Ants, Carpenter Bees, Centipedes, Chiggers, Chinch Bugs, Clover Mites, Cockroaches, Crickets, Cutworms, Earwigs, Fleas, Lawn Moths, Millipedes, Mosquitoes, Scorpions, Spiders (including Black Widow and Brown Recluse Spiders), Subterranean Termites/ Termites (workers & winged), Ticks (including ticks which transmit Lyme Disease), White Grubs
See inside label for many more uses.	

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For prevention and control of ~~ants, subterranean termites, and certain wood destroying insects.~~ Also controls borers, carpenter ants and carpenter bees found outdoors in localized areas of wooden structures, firewood piles and stored lumber. ~~This product can be used for treatment of localized areas of wooden structures, firewood piles and stored lumber to control wood infesting borers, carpenter ants and carpenter bees.~~—In addition controls many common pests in lawns and other outdoor areas around the home.

Specially formulated for residential use.

ORTHO-KLOR Soil Insect & Termite Killer is an easy to apply product to control lawn insects, home invading pests, fire ants & wood destroying insects ~~including exposed termites, and borers that attack ornamental plants fruit trees, and shade trees.~~ When used as directed, it helps lawns and gardens stay vigorous, healthy, and green by controlling bugs that cause problems.

DO NOT USE INSIDE DWELLINGS

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DIRECTIONS FOR USE

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

tsp = teaspoon

Tbs = Tablespoon

2 Tbs = 1 fl. oz

4 fl oz = 1/2 cup

SHAKE WELL [BEFORE USING]

LAWN PESTS

•Pests that live & feed underground:

European Crane Fly Larvae, Hyperodes (Turfgrass Weevils), Mole Crickets & White Grubs (Including larvae of European Chafer & Japanese Beetle)

•Pests that live & feed above ground:

including Armyworms, Chiggers, Chinch Bugs, Clover Mites, Crickets, Cutworms, Dichondra Flea Beetles, Earwigs, Fiery Skipper Larvae (California and Hawaii only), Fleas, Grasshoppers, Lawn Moths (Sod Webworms), Ticks & Tropical

Grass Webworms (Hawaii only)

Mixing Instructions for Lawn Pests

Hyperodes, Mole Crickets & White Grubs:

Amount to Use: 2 Tbs (1 fl oz) per gallon of water for each 75 sq ft

. When using the Ortho Dial 'n Spray®: Set dial to 1 oz. Add 13 fl oz to the sprayer jar. **DO NOT** add water. Spray evenly over 1000 sq ft until jar is empty.

Pests that live & feed above ground and European Crane Fly Larvae:

Amount to Use: 2 tsp per gallon of water for each 100 sq ft

. When using the Ortho Dial 'n Spray®: Set dial to 2 tsp. Add 3½ fl oz to sprayer jar. **DO NOT** add water. Spray evenly over 1000 sq ft until jar is empty.

How to Apply

- Measure lawn. Calculate square feet by multiplying length times width. [walking man icon] Spray evenly over measured area.
- Treat entire lawn. Spot treatment may be less effective.

When to Mow & Water

- Apply to lawn that was mowed and watered within the last 24 hours.
- Above Ground Pests: Do not water for 2 to 3 days after application.

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•Underground Pests: Water lawn thoroughly after application to move the insecticide into the soil where these pests live and feed.

When to Apply

- Wait 4 to 6 weeks between applications.
- European Crane Fly Larvae & White Grubs: Treat when pests are small and actively feeding near the soil surface. Consult your County Cooperative Extension Agent for the best time to treat.

FIRE ANT MOUNDS

Mixing Instructions for Fire Ant Mounds
Use a Sprinkling Can: Add 2 Tbs (1 fl oz) to 1 gallon of water for each mound.

How to Apply

Apply evenly over and around each mound in a 4 ft diameter circle. Apply gently to avoid disturbing ants and causing them to move and form new mounds.

When to Apply

For best results apply in early morning or late afternoon when fire ants most active. Treat new mounds as they appear.

HOME INVADING PESTS - OUTDOORS

including Ants, Bees, Beetles, Boxelder Bugs, ~~Carpenter Ants~~, ~~Carpenter~~ Centipedes, Clover Mites, Cockroaches, Crickets, Earwigs, ~~Elm Leaf Beetl~~ Fleas, Flies, Hornets, House Flies, Millipedes, Scorpions, Silverfish, Sowbugs, Spiders, Springtails, Ticks, Wasps & Yellow Jackets

Mixing Instructions for Home Invading Pests
Amount to Use: 2 tsp per gallon of water • When using the Ortho Dial 'n Spray®: Set dial to 2 tsp. For 3 gallons of spray add a minimum of 1 fl oz to sprayer jar. * DO NOT add water. Spray.

* Note: If you add more product than you need to the Dial'n Spray, pour unused product back into its original container when you're finished spraying.

•How to Apply

-
- To keep insects from entering the house, spray a 3 foot band of soil around the house next to the foundation. Also spray the foundation of the house to a height of 2 feet. 3 gallons of spray treats 60 linear feet.
- Also spray walks, "garbage cans & garbage areas, "window frames & doorways, "porches & patios, "~~eaves~~", "under shrubs and trees

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but avoid spraying foliage. DO NOT treat pets with this product.
DO NOT use indoors in dwellings.

•Repeat as needed.

MOSQUITOES - OUTDOORS

Mosquitoes coming to rest on areas treated for the control of lawn and home invading pests will be killed for varying periods of time after application, depending on exposure of treated areas to weathering conditions.

CARPENTER ANTS

Plus Carpenter Bees & Wood Boring Beetles (including Powder Post Beetles) -OUTDOORS

Mixing Instructions for Carpenter Ants, Carpenter Bees & Wood Boring Beetles
Amount to Use:
. Wood Treatment: 5 1/3 fl oz per gallon of water
. Perimeter Treatment: 2 tsp per gallon of water

How to Apply

Wood Treatment:

- Outdoor Wood: Surfaces of Buildings & Fences Exterior Localized Areas of Infested Wood: Apply evenly on wood surfaces with a paint brush. Allow to dry and repeat to ensure the insecticide soaks into the wood .
- Wood Piles & Stored Lumber: Use a hose-end or tank sprayer, or sprinkling can to deliver a coarse drenching spray. Treated wood can be burned or used for building one month after treatment.

Perimeter Treatment:

- To keep insects from entering the house, use a hose-end or tank sprayer to spray a 3 foot band of soil around the house next to the foundation. Also spray the foundation of the house to a height of 2 feet. 3 gallons of spray treats 60 linear feet.

SUBTERRANEAN TERMITES - OUTDOORS

Prevents subterranean termite infestations. DO NOT use under slabs, in crawl spaces or indoors. If termites are found within the house or structure contact a licensed pest control operator for treatment.

Mixing Instructions for Termites

Use a Sprinkling Can: Add 5 1/3 fl oz to 1 gallon of water for each 2 1/2 linear feet*.

* 1 quart of HomeDefense® Ortho-Klor® will make 6 gallons of diluted solution and treat / cover 15 linear feet.

How to Apply

- **Trench Treatment**
 - Remove all wood debris and wood forms.
 - **Poured Concrete Foundations:**
Dig a trench next to the foundation 6 inches wide and 4 inches deep or down to the top of the footing, whichever is less.
 - **Brick & Block Foundations:** Dig a trench 6 inches wide and 12 inches deep.
 - To avoid shifting your house foundation never dig below the top of the footing.
 - Mix diluted product solution into soil as soil is replaced in the trench.
- **Fence Posts**- - (EXCEPT RHODE ISLAND)
Using a sprinkling can pour ½ gallon of diluted product into fence post hole and add another ½ gallon to the soil when filling the hole so that all the fill soil is treated to form a protective barrier.

When to Apply

Reapplication for subterranean termites should only be made when there has been a disruption of the chemical barrier in the soil due to construction, excavation, landscaping, etc. Reapplication should be made as a spot treatment to those areas. Annual reapplication of the entire premises must be avoided.

IMPORTANT

[10/16/97]: Do not treat structures that contain cisterns or wells. Soil in the vicinity of wells, cisterns or ponds should not be treated. For those situations, contact the local Cooperative Extension Service or consult a commercial pest control service. Consult state, county or local authorities for recommended distances of treatment from wells.

- DO NOT treat structures that contain cisterns or wells.

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• DO NOT treat soil that is water saturated or frozen or in any conditions where run-off or movement from the treatment area (site) is likely to occur.

- DO NOT apply while it is raining.
- DO NOT use on pets.

• DO NOT use on edible or ornamental plants. Spray drift onto these plants should be rinsed off immediately with water.

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~~LAWN PESTS: Armyworm, Lawn Moth Larvae (Sod Webworms), Dichondra Flea Beetles, Chinchbugs, Cutworms, European Crane Fly (Larvae), Fiery Skipper Larvae (California and Hawaii only), Tropical Grass Webworms (Hawaii only), Grasshoppers, Crickets, Chiggers, Clover Mites, Earwigs, Fleas For use in an ORTHO DIAL 'n SPRAY®~~

~~Hose End Sprayer: Add 3 1/2 fl oz undiluted product to sprayer jar, set dial on sprayer at 2 tsp/gallon and spray until jar is empty to treat 1,000 sq ft. For use with an ORTHO Lawn Sprayer: Add 1 3/4 fl oz product to sprayer jar, fill jar with water to the 15 gallon mark and spray evenly over 500 sq ft.~~

~~Mow and water 1 to 2 days before treatment. Heavy watering should be withheld for 2 to 3 days following treatment. Spray when pests first appear. Treat entire lawn. Do not attempt to control lawn pests by spot spraying. Repeat treatments may be necessary at 4 to 6 week intervals. For European Crane Fly control, consult your Agricultural Extension Service for proper timing of application for your area.~~

~~WHITE GRUBS IN LAWNS: (Larvae of European Chafer and Japanese Beetle) For use in an ORTHO DIAL 'n SPRAY® Hose End Sprayer: Add 13 fl oz undiluted product to sprayer jar, set dial on sprayer at 1 oz per gallon and spray until jar is empty to treat 1,000 sq ft. Water lawn thoroughly after application. For use with an ORTHO Lawn Sprayer: Add 6 1/2 fl oz product to sprayer jar. Fill jar with water to the 15 gallon mark and spray evenly over 500 sq ft. Treat entire lawn. Do not attempt to control lawn pests by spot spraying. Water lawn thoroughly to wash the insecticide into the soil. Treat lawn when grubs are young and actively feeding near the soil surface, usually during late July and August. Consult your Agricultural Extension Service Specialist for proper time to treat in your area.~~

~~Note: Do not use on vegetables or food crops. Do not use on azaleas, camellias, poinsettias, rose bushes or variegated ivy because of possible injury to the plants.~~

~~FOR TERMITES (Outdoors): TRENCH TREATMENT: NOTE: This product is not intended for control of termites which do not require contact with the soil for moisture, such as: drywood, dampwood or powderpost termites. Consult the County or State Agricultural Extension Service for termite identification. Remove all wood debris and wood forms. Determine the extent of termite infestation. For prevention and light infestation, treat soil adjacent to both sides of infested foundations of poured concrete, pipes or piers by digging a trench 6 inches wide and 4 inches deep (or down to the top of the footing whichever is less). For brick and block foundations dig the trench about 12 inches deep. If footing is more than 12 inches deep, make holes with a crowbar, pipe or a rod about one foot apart that extend from the trench bottom to the top of the footing. Make holes~~

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~~closer in hard packed clay soils. NEVER DIG BELOW THE TOP OF THE FOOTING. Avoid contamination of public and private water supplies by following these precautions. Do not allow a hose or any type of faucet extension to reach into the termite chemical solution while filling or mixing this material with water. Use anti backflow or anti siphonage equipment on all filling equipment. These devices can be purchased at hardware or plumbing supply stores. Use of anti backflow equipment will help insure that the user of this toxic chemical will not contaminate domestic water supplies. Refer to FHA (Federal Housing Administration), state and local specifications for safe distances of treatment areas from wells. Soil in the vicinity of wells, cisterns or ponds should not be treated. Do not treat structures that contain cisterns or wells. Note: When conditions will not permit trenching, surface application adjacent to interior foundation walls may be made but the treated strip should not exceed 18" in width. Apply solution with a sprinkling can. Mix 5 1/3 fl. oz. per gallon of water and treat 2 1/2 linear feet of trench or foundation (one half gallon of ORTHO-KLOR Soil Insect & Termite Killer will make 12 gallons of diluted solution and treat 30 linear feet). Mix solution into soil as it is replaced in the trench. Cover treated soil with a layer of untreated soil. Be sure to treat any accessible voids in hollow blocks in the foundations at same rate as above. Be careful to have adequate ventilation when treating areas under structure. This product is not intended for severe infestations or treatment under slabs, in basements and buildings with insufficient crawl space, etc., contact a licensed pest control operator or termite control service. 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, excavation, landscaping, etc. Reapplication should be made as a spot treatment to those areas. Annual retreatment of the entire premises must be avoided.~~

~~FENCE POSTS TERMITE PREVENTION (EXCEPT RHODE ISLAND) Apply solution with a sprinkling can. Mix 5 1/3 fl oz per gal of water. Apply one gallon of diluted product per post hole. Pour one half gallon of solution into hole and add the remaining 1/2 gallon to the soil when filling the hole so that all the fill soil is treated to form a protective barrier. NOTE: 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 from well. TREATMENT FOR WOOD DESTROYING PESTS (Outdoors): (Powder Post Beetles, Furniture Beetles, Deathwatch Beetles, Round headed House Borers, Carpenter Ants, Carpenter Bees). Treat localized areas of infested wood. Mix 2 1/2 Tbs per quart of water. Apply~~

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~~evenly on wood surfaces with a paint brush. Allow to dry and repeat to ensure penetration. For wood piles and stored lumber apply 5 1/3 fl oz per gal of water. Use ORTHO hose end sprayers or sprinkling can to deliver a coarse drenching spray. Do not use in structures occupied by animals to be used for food purposes or which produce products for human consumption.~~

~~HOME INVADING PESTS (OUTSIDE DWELLINGS): Ants, Bees, Beetles (1), Box Elder Bugs, Carpenter Ants (1), Carpenter Bees (1), Centipedes, Clover Mites, Cockroaches, Crickets, Earwigs, Elm Leaf Beetles, Fleas, Flies, Hornets, House Flies, Millipedes, Mosquitoes, Scorpions (2), Silverfish, Sowbugs, Spiders, Springtails, Ticks, Wasps, Yellowjackets.~~

~~NOTE: Number in parenthesis refer to Specific Directions. (1) For added information, see section on Treatment For Wood Destroying Pests. (2) For Scorpions, remove accumulations of lumber, firewood, and other materials which serve as harborage sites and treat beneath and adjacent to infested areas.~~

~~FOR PEST CONTROL ON OUTSIDE SURFACES AND AROUND BUILDINGS: Spray outside surfaces of buildings and surrounding areas, including porches, window frames, doorways, foundations, eaves, patios, garages, garbage cans, and other areas where pests congregate or can gain entrance. Repeat treatment as needed. Do not treat pets with this product. DO NOT USE IN DWELLINGS.~~

~~Treat a band of soil 6 feet wide around buildings, also the building foundation to a height of 2 to 3 feet. Spray 10 gal mixture per 1,000 sq ft.~~

~~AMOUNT TO USE FOR HOME INVADING PESTS (OUTDOORS): For use in Hose end sprayer, tank type sprayer or sprinkling can: Apply 2 tsp in one gallon of water to cover 100 sq ft. For use in an ORTHO DIAL In SPRAY: Add 3 1/2 fl oz. undiluted product to sprayer jar, set dial on sprayer at 2 tsp /gal and spray until jar is empty to treat 1,000 sq ft.~~

~~IMPORTED FIRE ANT MOUNDS: Mix 2 Tbs per gal of water to each mound, using a sprinkler can. Thoroughly wet mound and treat a 4 foot diameter circle around the mound. For best results, apply in cool weather or in early morning or late afternoon. Treat new mounds as they appear.~~

STORAGE AND DISPOSAL

STORAGE: Store in original container in a safe place. Keep from freezing. DISPOSAL: Do not reuse container. Securely wrap partially filled or empty container in newspaper and put in trash.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

WARNING: Causes substantial but temporary eye injury, eye irritation. Harmful if swallowed or inhaled. Do not get in eyes, on skin or clothing. Avoid breathing vapors or and spray mist. Handle concentrate in ventilated area. Wear long-sleeved shirt, long pants, socks, shoes, rubber gloves and safety glasses. Wash thoroughly with soap and water after handling. and before eating or smoking. Remove contaminated clothing and wash clothing before reuse. Do not wear contaminated clothing or shoes. Keep away from food, feedstuffs and domestic water supplies. Reentry CHILD/PET icon] People and pets may enter treated area after application has dried. Keep children and pets out of treated areas until these areas are dry.

FIRST AID: IF SWALLOWED: Immediately telephone a poison control center, emergency treatment center or a physician for advice. DO NOT make person vomit. Product contains petroleum distillate. May be an aspiration hazard. If medical advice cannot be obtained, then immediately take person and product container to an emergency treatment center or hospital. DO NOT make person vomit. Call a doctor immediately. IF ON SKIN: In case of contact, remove contaminated clothing and immediately wash skin with soap and water. Wash with plenty of soap and water. Get medical attention if irritation persists. IF IN EYES: Flush eyes with plenty of water. Call a physician and get prompt medical attention. Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention. IF INHALED: Remove person to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

Note to Physician: Emergency Information call 1-800-225-2883 454-2333. Chlorpyrifos is a cholinesterase inhibitor. If signs and symptoms of cholinesterase inhibition develop, atropine by injection is antidotal; 2-PAM may also be given in conjunction with atropine, but should never be used alone.

ENVIRONMENTAL HAZARDS

This product is toxic to birds, fish and other aquatic organisms. Birds feeding in treated areas may be killed. Clean up spilled product to reduce exposure to wildlife. Do not apply directly to any body of water. Do not pour product or rinse water down any drain.

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

NOTICE: Buyer assumes all responsibility for safety and use not in accordance with directions.

Ortho-Klor®, Dial 'n Spray®, HomeDefense® Trademarks of Monsanto Company
DURSBAN® Trademark of DowElanco

~~Medical Information call 1-800-454-2333~~
~~Product Information call 1-800-225-2883~~

• Questions, Comments or Medical information
Call 1-800-225-2883 <http://www.ortho.com> ?

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