



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

May 18 1994

CHRISTINA M. LAWES
ROUSSEL UCLAF CORP.
95 CHESTNUT RIDGE ROAD
MONTVALE, NJ. 07645

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Subject: Label Amendment Submission of 12/07/93 in Response to PR Notice 93-7
EPA Reg. No. 10370-305
CLEAN CROP DURSBN 1-E

IMPORTANT NOTICE: This Letter Requires You to Submit a Notification to the Office of Compliance Monitoring within 20 Days.

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments listed on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

SERIOUS ERROR(S) ON SUBMITTED LABELING:

EPA has determined that one or more of the errors on the labeling you submitted to the Agency is categorized as "serious" as defined in PR Notice 93-11. In general, serious errors are those that may create a potential for harm to workers, handlers, other persons, or the environment; or those that prevent the achievement of the basic goals of the Worker Protection Standard (WPS) or FIFRA.

YOU MUST NOT SELL OR DISTRIBUTE (INCLUDING RELEASE FOR SHIPMENT) ANY PRODUCT BEARING THE SUBMITTED LABELING. Sale or distribution of any product with the incorrect labeling is a violation of FIFRA that could result in initiation of an action for civil penalties and/or cancellation of your product. This matter has been referred to the Office of Compliance Monitoring (OCM) for further action.

YOU MUST SUBMIT A NOTIFICATION TO THE OFFICE OF COMPLIANCE MONITORING WITHIN 20 DAYS OF THE DATE OF THIS LETTER.



Recycled/Recyclable
Printed with Soy/Canola Ink on paper that
contains at least 50% recycled fiber

Each notification must include the following information:

1. Registrant's name and address.
2. EPA Registration number of the product for which the labeling was submitted.
3. Whether any product already has been sold or distributed (this includes released for shipment) bearing the submitted labeling.

In addition, the notification must include the following information, IF you have already sold or distributed any product bearing the submitted labeling:

1. Quantity of the product that has been sold or distributed.
2. EPA Producing Establishment number.
3. Location of the product, if known.
4. Proposed plan for assuring that product with the incorrect labeling in your control, as well as that in the hands of dealers/distributors/users, will be corrected. The plan must include your proposal for assuring that the labeling is corrected as soon as possible.

Submit the notification to:

Michael Wood, Director
Compliance Division, (7203)
Worker Protection Notification
Office of Compliance Monitoring
U.S. Environmental Protection Agency
401 M Street SW
Washington, DC 20460

Failure to submit a notification also may result in initiation of an action under FIFRA for civil penalties, if you sold or distributed (this includes released for shipment) product bearing the incorrect labeling.

IN ADDITION, YOU SHOULD CONTACT IMMEDIATELY THE PERSONS TO WHOM YOU SOLD OR DISTRIBUTED YOUR PRODUCT AND INFORM THEM NOT TO SELL OR DISTRIBUTE ANY PRODUCT WITH THE INCORRECT LABELING.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the WPS labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have neither been reviewed nor accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

Submit the required notification. Then by the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling as amended

AND

- WITHIN one year from date of this acceptance.

Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs (7505C)
U.S. Environmental Protection Agency
401 M Street, SW
Washington, D.C. 20460-0001

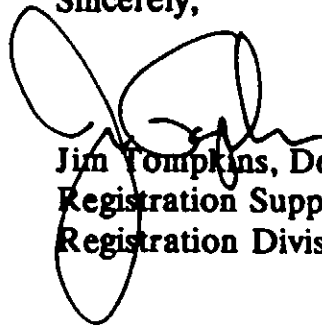
4 of 11

Page 4

Hand or courier deliveries of final labeling may be made to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

Sincerely,

A handwritten signature in black ink, appearing to read "Jim Tompkins", is written over the typed name and title.

Jim Tompkins, Deputy Chief
Registration Support Branch
Registration Division (7505W)

Attachment

cc: Office of Compliance Monitoring

5 of 11

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division

Christina M. Lawes
ROUSSEL UCLAF CORP
95 CHESTNUT RIDGE RD
MONTVALE NJ 07645

Comment for: EPA Reg Nr.10370-305
CLEAN CROP DURSBN 1-E

The following specific comments pertain to your WPS labeling submission concerning the product cited above:

User Safety Recommendations must either be placed in a box or printed on the label in a contrasting color from surrounding text.

Add the following User Safety Recommendation to the label in the location shown in Section A on Part 1 of the Product Worksheet in Supplement Three-A to PR Notice 93-7: "Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing."

The glove requirement for "applicators and other handlers" in the "Personal Protective Equipment" section on your proposed labeling is missing or does not match the chemical-resistance category identified on your proposed labeling. Correct the chemical-resistance category statement (if necessary) to state: "Some materials that are chemical resistant to this product are listed below. If you want more options, follow the instructions for category G on EPA chemical resistance category selection chart. Remove the incorrect glove requirement (if any) and add "Chemical-resistant gloves, such as barrier laminate or viton." The exact location is shown in Sections A and B on Part 1 of the Product Worksheet in Supplement Three-A to PR Notice 93-7.

You may delete the respirator statement added to your proposed label. It is not required for your product.

Insert the following statement above the Agricultural Use Requirements box: "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." The exact location is shown in Section F on Part 2 of the Product

6-711
ROUSSEL UCLAF CORP
EPA Reg. Number: 10370-305
CLEAN CROP DURSBN 1-E
Application date: 12/07/93
Original Submission

Worksheet in Supplement Three-A to PR Notice 93-7.

You must retain from your original label any statements about entry restrictions that apply to the non-agricultural uses on your product. Create a Non-Agricultural Use Requirements box in the Directions For Use section of your labeling and add the statements: "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." Then add to the box the statements that are in brackets [] on your original label. Please refer to the instructions for creating a Non-Agricultural Use Requirements box starting on page 45 of Supplement Three to PR Notice 93-7 (Main Labeling Guidance).

Delete the crossed-out statements on your proposed label. They are redundant statements or phrases.

Correct the typographical errors circled on your proposed label.

DURSBAN[®]

1-E

To be Applied Only By or Under the Supervision of Pest Control Operators or Other Trained Personnel Responsible for Insect Control Programs.

FOR CONTROL OF INDOOR INSECTS, TERMITES, LAWN INSECTS,
FLOWER AND ORNAMENTAL PLANT INSECTS, SHADE TREE
INSECTS, AND FIRE ANTS AS DIRECTED.

ACTIVE INGREDIENT:

Chlorpyrifos [O,O-diethyl O-(3,5,6-trichloro-2-pyridyl) phosphorothioate]	12.8%
INERT INGREDIENTS*:	87.2%
TOTAL	100.0%

* Contains aromatic petroleum solvent
Contains 1/2 pound chlorpyrifos per pint

KEEP OUT OF REACH OF CHILDREN WARNING

EPA REG. NO. 10370-305

EPA EST. NO. _____

NET CONTENTS

See Below for Additional Precautionary Statements.

• Trademark of The Dow Chemical Co.

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.)

STATEMENT OF PRACTICAL TREATMENT

Organophosphate

IF SWALLOWED: Do not induce vomiting. Contains aromatic petroleum solvent. Call a physician immediately.

IF ON SKIN: In case of contact, remove contaminated clothing and immediately wash skin with plenty of soap and water.

IF IN EYES: Flush eyes with plenty of water. Call a physician.

IF INHALED: Move to fresh air. Assist respiration if needed. Consult physician.

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

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS

AND DOMESTIC ANIMALS

WARNING

Causes eye irritation—Harmful if swallowed.

Do not take internally. Do not get in eyes, on skin or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse. Avoid breathing vapors and spray mist. Avoid spraying food crops, except as directed. Keep away from food, feedstuffs and domestic water supplies. Keep container closed. Handle concentrate in a ventilated area.

ACCEPTED
with COMMENTS
in EPA Letter Dated

18 1994

ROUSSEL UCLAF

Roussel Uclaf Corporation
95 Chestnut Ridge Road
Montvale, New Jersey 07645

Under the Federal Insecticide,
Fungicide and Rodenticide Act
Recommended for the pesticide
registered under EPA Reg. No.

10370-365

Personal Protective Equipment:

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

Applicator and other handlers must wear:

- Coveralls over short-sleeved shirt and short pants.
- Chemical-resistant gloves, such as barrier laminate, butyl rubber \geq 14 mils, nitrile rubber \geq 14 mils, or viton \geq 14 mils.
- Chemical-resistant footwear plus socks.
- Protective eyewear.
- Chemical-resistant headgear for overhead exposure.
- Chemical-resistant apron when cleaning equipment, mixing, or loading.
- Dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C).

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.

Engineering Controls Statement:

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations:

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

ENVIRONMENTAL HAZARDS

This product is toxic to fish, birds and other wildlife. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Shrimp and crabs may be killed at application rates recommended on this label. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment or disposal of wastes.

Do not contaminate water when disposing of equipment wash waters. Apply this product only as specified on this label. This product is highly toxic to bees exposed to direct treatment of residues on plants. Protective information may be obtained from your Cooperative Agricultural Extension Service.

BEST AVAILABLE COPY

DURSBAN® 1-E

BEST AVAILABLE COPY

EPA REG. NO. 10370-305

PHYSICAL OR CHEMICAL HAZARDS

Combustible: Do not use or store near heat or open flame. Do not cut or weld container.

DIRECTIONS FOR USE

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

ATTENTION: Do not allow adults, children or pets on treated areas until spray has dried. Do not apply sprays of this product in conduits, motor housings, junction and switch boxes or other electrical equipment because of possible shock hazard.

STORAGE AND DISPOSAL

STORAGE: Store in original container only, preferably in a locked area. Keep container tightly closed when not in use. Store in a cool, dry place. Do not use food or drink containers for mixing or storage.

PESTICIDE DISPOSAL: Securely wrap original container in several layers of newspaper and discard in trash.

CONTAINER DISPOSAL: Do not reuse container. Rinse thoroughly before discarding in trash.

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 12 hours.

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, butyl rubber \geq 14 mils, nitrile rubber \geq 14 mils, or viton \geq 14 mils.
- Chemical-resistant footwear plus socks.
- Protective eyewear.
- Chemical-resistant headgear for overhead exposure.

PESTS INDOORS

General information: Use this product to control the pests indicated in the areas listed below by application as a 0.25% or 0.5% chlorpyrifos spray. Use the 0.25% spray to control light infestations and the 0.5% spray to quickly reduce heavy infestations or as directed. To prepare the spray, dilute this product with water as shown in the following INDOOR SPRAY DILUTION CHART. Repeat the treatment as needed.

Application within residential buildings including homes and apartment buildings and within non-food areas of industrial, institutional, and commercial buildings including hospitals, stores, manufacturing plants, and warehouses: For spot treatment only—Apply as a coarse spray or with a paint brush to localized areas where cockroaches (including strains resistant to certain other insecticides), ants, clover mites, crickets, firebrats, silverfish, and spiders are found or normally occur including dark corners of rooms and closets; cracks and crevices in walls; along and behind baseboards; beneath and behind sinks, stoves, refrigerators and cabinets; around plumbing and other utility installations. For ants apply to ant trails, also around doors and windows and wherever else these pests may find entrance. For clover mites use a 0.5% spray only.

Note: A period of 4 to 7 days is normally required for maximum effect on cockroaches.

For control of flea and brown dog ticks: Thoroughly apply a 0.5% spray as a spot treatment of infested areas such as pet beds and resting quarters; nearby cracks and crevices; along and behind baseboards, window and door frames and localized areas of floor and floor covering where these pests may be present. Old bedding of pets should be removed and replaced with clean, fresh bedding after treatment. **DO NOT TREAT PETS WITH THIS PRODUCT.** To control the source of flea infestation, pets inhabiting the treated premises should be treated with a product registered for application to animals.

For control of carpet beetles: Thoroughly apply a 0.5% spray as a spot treatment along baseboards and edges of carpeting, under carpeting, rugs and furniture, in closets and on shelving, and wherever else these insects are seen or suspected.

Application within food handling establishments (places other than private residences in which food is held, prepared, or served) including, but not limited to, restaurants, grocery stores, bakeries, bottling plants, canneries and grain mills: Use as a spot treatment in and around both food and non-food areas to control cockroaches (including strains resistant to certain other insecticides), ants, crickets, firebrats,

silverfish, spiders and stored product insects such as confused flour beetles, saw-toothed grain beetles, Indian meal moths, rice weevils, Mediterranean flour moths and red flour beetles. Apply as a coarse, low pressure (20 psi or less) spray to localized areas where the above pests have been seen or are suspected of hiding or entering. Apply only enough spray to thoroughly cover the surfaces treated using special care to avoid unnecessary runoff. Do not introduce the spray into the air or allow the spray to contact food or food-contacting surfaces. Areas treated may include dark corners of rooms and closets; along and behind baseboards; beneath and behind stoves, refrigeration units and similar food preparation areas and equipment; floor drains; and around plumbing and other utility installations. For ants apply to ant trails and wherever these pests may find entrance. Spot treatment may include crack and crevice treatment by applying small amounts of material directly into openings leading to voids and hollow spaces in walls and on and around equipment legs and bases of equipment. Equipment capable of delivering a pinstream of insecticide should be used. Repeat treatment as needed but not more than once every 7 days in restaurants and similar food service establishments. In case of emergency (severe infestation continuing), this product may be applied after 2 days from last treatment, but emergency use should be limited to once per month. Applications of this product in food handling establishments other than as a spot and/or crack and crevice treatment are not permitted.

INDOOR SPRAY DILUTION CHART

Gallons of Water	Fluid Ounces* of This Product to Use	
	0.25% Spray	0.50% Spray
1	3	5 1/2
3	8	16
5	13 1/2	27
10	27	54

* 1 fluid ounce = 2 tablespoonful = 6 teaspoonful

ATTENTION (Pests Indoors): Do not apply water-base sprays of this product in conduits, motor housings, junction and switch boxes or other electrical equipment because of possible shock hazard. Do not use in poultry houses or other animal buildings. Do not allow spray to contact food, feedstuffs, and water supplies. Thoroughly wash dishes and food handling utensils with soap and water if they become contaminated by application of this product. Do not allow children or pets to contact treated surfaces until spray has dried. Remove pets and cover fishbowls (tanks) before spraying.

SUBTERRANEAN TERMITE CONTROL IN EXISTING STRUCTURES

Buildings with Basements or Crawl-Spaces

First remove all wood debris and wood forms. Around piers, pipes, chimney bases and along foundations of poured concrete dig a trench 6 inches wide and 4 inches deep. 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 closer in hard-packed clay soils. **NEVER DIG BELOW THE TOP OF THE FOOTING.** Apply the emulsion (or solution) in the trench at a rate of 4 gallons per 10 linear feet per foot of depth. Apply half of this to the backfill. This product should be applied as a 1/4% water emulsion. Mix 1 quart of concentrate in 6 gallons of water to produce a 1/4% emulsion. Likewise, treat along the inside of foundations of crawl-space buildings. Cover treated soil with a thin layer of untreated soil.

The object is to establish a treated soil barrier which will prevent termite entry. Other critical areas may also require treatment, particularly if there are inaccessible areas, basements, or slab-type construction.

DURSBAN® 1-E

EPA REG. NO. 10370-305

For severe infestations or treatment under slabs, in basements, and buildings with insufficient crawl space, contact a licensed pest control operator or termite control service.

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-back-flow or anti-siphonage equipment on all filling equipment. These devices can be purchased at hardware or plumbing supply stores. Use of anti-back-flow equipment will help to insure that the user of this toxic chemical will not contaminate domestic water supplies. Refer to Federal (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.

Retreatment Restrictions

1. Retreatment for subterranean termites should only be made when there is evidence of re-infestation subsequent to the initial treatment,

or there has been a disruption of the chemical barrier in the soil due to construction, excavations, landscaping, etc.

2. Retreatments may be made to critical areas in accordance with the application techniques described above. This application should be made as a spot treatment to these areas.

Annual retreatment of the entire premises should be avoided.

PESTS OUTDOORS

Pests of lawns and other ornamental and recreational turf grass areas: Use this product to control pests listed in the following table by application at the recommended dosages and in accordance with the directions given below. Dilute this product in enough water to obtain complete and uniform coverage of pest-infested areas and apply as a coarse, low-pressure spray using suitable application equipment. Thoroughly water immediately after treatment to wash the insecticide into the turf, except as noted. For best results, the lawn should be moist at time of treatment.

DOSAGES AND DIRECTIONS FOR USE ON TURF

PEST	Dosage* per 1000 sq. ft.	REMARKS
Ants, Armyworms, Brown Dog Ticks, Centipedes, Chiggers, Chinch Bugs, Clover Mite, Crickets, Cutworms, Earwigs, Fleas, Grasshoppers, Sod Webworms, Ticks, Sowbugs (Pillbugs).	3 fl. ozs.	Spray when pests first appear; retreat when needed. For sod webworms delay watering or mowing the treated areas for 12 to 24 hours after treatment.
Turfgrass (Hyperodes) Weevil	6 fl. ozs.	Spray suspected problem areas in mid-April and again in May or as recommended by your local Agricultural Extension Service specialist for your area.
European Crane Fly	4 fl. ozs.	Apply in spring or as recommended by your local Agricultural Extension Service specialist for your area.
White grubs (Such as: Black turfgrass aleoanus, European chafar, Southern masked chafar, and Japanese beetle larvae)	6 to 12 fl. ozs.	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 your area. Immediately after spraying, irrigate the treated area with 1/2 to 1 inch of water to wash the insecticide into the underlying soil.
Palmetto bugs	9 fl. ozs.	Spray when insects first appear. Retreat as needed, but not more often than every 7 days.
Bluegrass Billbug	6 to 12 fl. ozs.	Spray early in the season when adults first appear. Retreat as needed.

* 1 1/2 fl. ozs. per 1000 sq. ft. = 7 1/2 fl. ozs. per 5000 sq. ft. = 1 pint per 10,000 sq. ft. = 2 quarts per acre.

BEST AVAILABLE COPY

Area control of ticks and chiggers: Use this product to control ticks and chiggers infesting non-cropland areas such as roadsides, footpaths and trails, picnic and camping sites, parks and other recreational areas where these pests are present and create a nuisance or possible public health problem. Apply this product in water at U.S. rate of 2 pints per acre (equivalent to 1 fl. oz. per 2,700 sq. ft.) using a hydraulic sprayer, mist applicator, knapsack sprayer, or other suitable hand or power spray equipment. Treat low underbrush, grassy areas, weeds, and ground surface and debris using enough spray volume to obtain thorough coverage, usually 40 to 100 gallons per acre.

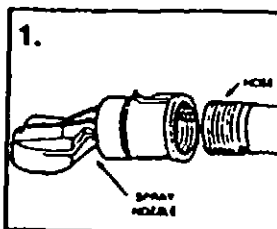
ATTENTION (area control of ticks and chiggers): Do not allow public use of treated areas during application or until spray has dried.

Imported Fire Ant: Treatment of potted, containerized and balled and burlapped nursery stock. Use this product to control imported fire ants in soil attached to roots of these plants by completely submerging the ball of the soil in a tank containing this product diluted at the rate of 16 fl. ozs. per 100 gallons of water. Do not remove burlap wrap or plastic container with drain holes prior to submerging. Keep soil submerged until complete saturation has occurred, normally about 30 seconds. Wear rubber gloves, boots and apron during this operation.

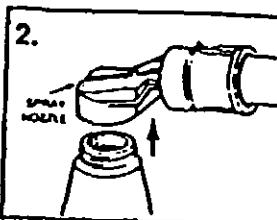
Treatment of Fire Ant Mounds: Apply this product as a drench diluted at the rate of 2 fl. ozs. (30cc) per 2 gallons of water. Gently sprinkle a total of 1 gallon of the diluted solution over the surface of each mound using a sprinkler can. Thoroughly wet mound and surrounding area to a 4 ft. diameter (12 sq. ft.). 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.

HOSE-END SPRAYER DIRECTIONS FOR TURF:

HOW TO USE SPRAYER

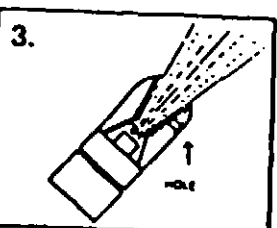


1. Connect spray nozzle to hose. Rubber washer should be checked for proper position. Determine area to be treated. For example, 500 sq. ft. = an area measuring 10 ft. x 50 ft. When applying, check area being treated against measuring guide on side panel. Spray pattern can be tested (without discharging product) by not placing finger over hole on right side of nozzle.

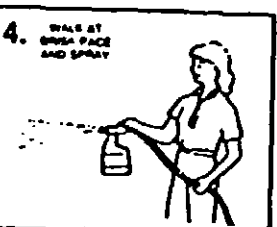


2. Remove bottle cap and screw bottle into nozzle (leave bottle cap for storage after use). Check siphon tube for proper position. Do not squeeze bottle while attaching nozzle, or during application as contents may discharge.

To store unused product: Turn off water supply at tap. Remove bottle from sprayer and replace original bottle cap. Remove nozzle from hose and rinse in clear water.



3. Hold sprayer attached to hose in one hand and turn on the water at the tap. Clear water will discharge when water is turned on at tap. Let clear water run until all air is discharged from hose. When ready to treat, place finger over hole on right side of nozzle and this product will mix automatically at the proper ratio. To stop flow of product, remove finger from hole to break siphon action.



4. While holding sprayer at waist level, point in direction away from face and body. Spray with wind at back. Avoid walking into the spray. Walk back and forth at a brisk, steady pace. Overlap slightly for uniform coverage. Marks on right side panel indicate square foot coverage. For certain areas of lawn, it may be more convenient to stand still and direct spray across treated area in a broad sweeping motion.

32 FL. OZS. SPRAYER COVERAGE

RATE PER 1000 SQ. FT. (FL. OZS.)	AREA COVERED BY 32 FL. OZS. (SQ. FT.)
3	10,667
4	8,000
6	5,334
9	3,556
12	2,667

DURSBAN® 1-E

EPA REG. NO. 10370-305

PEST CONTROL ON OUTSIDE SURFACES AND AROUND BUILDINGS

PEST	REMARKS
Ants	Outside Surface Spray: Apply 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 seen. Repeat treatment as needed to maintain effectiveness. (See DILUTION CHART)
Bees	
Carpenter ants	
Clover mites	
Cockroaches	
Crickets	Band Treatment: To help prevent infestation of buildings treat a band of soil 6 to 10 feet wide around and adjacent to buildings, also the building foundation to a height of 2 to 3 feet, where pests are active and may find entrance. Apply as a coarse spray at the rate of about 10 gallons spray mixture per 1,000 sq. ft. to thoroughly and uniformly wet the band area. (See DILUTION CHART)
Earwigs	
Fleas	
Flies	
Hornets	
Millipedes	For Scorpions treat or remove accumulations of lumber, firewood, and other materials which serve as insect harborage sites.
Mosquitoes	
Scorpions	
(See Remarks)	
Silverfish	
Sowbugs	
Spiders	
Ticks	
Wasps	
Yellowjackets	

DILUTION CHART

Type of Application	Amount of this Product
Outside Surface Spray	5 1/2 fl. ozs. per 1 gallon water
Band Treatment	1/2 fl. oz. (2 tsp.) per 1 gallon water
Around Buildings	3 fl. ozs. per 10 gallons water
	16 fl. ozs. per 50 gallons water

Mosquitoes: Apply this product to mosquito-infested, non-crop areas, according to the conditions and rates shown in the table. Mix with water using sufficient spray volume to give uniform coverage of area treated. Apply the spray using suitable application equipment such as hand and power ground sprayers, mist applicators, and aerial spray equipment. **WARNING (Mosquito Control)** Read complete Environmental and Use Precautions and consult your State Fish and Game Department before using this product for mosquito control.

CONDITIONS AND RATES TO USE FOR MOSQUITO CONTROL

Condition of Area to Be Treated	Amount to Use per 5000 sq. ft.
	This Product (Teaspoons)
Adult Control— Light to medium vegetative cover	3
Adult Control— Medium to heavy vegetative cover	6

* The higher dosage will also give faster knockdown and longer residual control where there is little or no vegetative cover.

Ornamentals (Outdoor and Nursery)

Treat flowers, shrubs, evergreens, vines, shade and flowering trees found to be infested with pests listed in the following table. Dilute this product with water according to directions given in the table and apply using suitable hand or power-operated spray equipment in a manner to provide complete and uniform coverage. For best results apply a coarse spray to thoroughly wet both upper and lower leaf surfaces and infested limb and trunk areas. Attempt to penetrate dense foliage but avoid overspraying to the point of excessive runoff. Treat when pests appear and repeat at 7 to 10 day intervals, if needed.

Consult your State Agricultural Experiment Station or Extension Service specialist for application timing and other specific use information.

Note: Ornamentals: Environmental factors have significant effects on plant injury. This product has been tested on numerous ornamental plants without causing serious plant injury. However, do not use on azaleas, camellias, poinsettias, rose bushes, or variegated ivy because of possible injury to these plants.

Pest*	Amount of This Product in Water to Make:			Specific Directions
	1 gal.	3 gals.	50 gals.	
Adelgids (such as: Cooley and Eastern spruce galls, Pine bark)	1/2 fl. oz. (2 tps.)	1 fl. oz.	16 fl. ozs.	1. For bagworms treat when insects are in the crawler stage.
Ants (including foraging fire ants)				
Aphids (Such as: Apple, Chrysanthemum, Cottonwood, Elm leaf, Peach, Rose, Spirea, Woolly)				
Armyworms (Such as: Fall, yellow-striped)				2. For effective control of leafrollers spray should be applied before leaves are tightly rolled.
Bagworms (1)				
Boxelder bugs				
Cankerworms				3. For effective control of control of maple leafcutter on maple trees apply spray to larvae as cases are being formed. Do not treat sugar maple trees intended for maple syrup production.
Catalpa sphinx				
Chiggers				
Citrus mealybugs				4. For effective control of spider mites when large numbers of eggs are present, apply a second spray 3 to 5 days in the South or 7 to 10 days in the North after initial treatment to control newly-hatched nymphs.
Cockroaches (Such as: American, Brownbanded, German, Oriental, Smokey brown)				
Elm spanworm				
Fall webworm				
Grasshoppers				
Green fruitworm				
Hornworms				
Jackpine budworm				
Juniper webworm				
Katydid				
Lace bugs				
Leafhoppers				
Leafrollers (2)				
Maple leafcutter (3)				
Mites (Such as: Clover, Red spider, Southern red) (4)				
Oleander caterpillar				
Orange tortrix				
Periodical cicada				
Plant bugs				
Poplar tentmaker				
Psyllids				
Puss caterpillar				
Rose chafer				
Sawflies, exposed (Such as: Pine, Pin oak, Redheaded)				
Sowbugs				
Spittlebugs				
Spring elm caterpillar				
Springtails				
Spruce budworm				
Tent caterpillars (Such as: Eastern, Forest, Western)				
Thornbug				
Walnut caterpillar				
Western spruce budworm				
Whiteflies				
Yellow-necked caterpillar				

*Numbers in parentheses refer to Specific Directions.

BEST AVAILABLE COPY

11 of 11

Pest*	Amount of This Product in Water to Make:			Specific Directions
	1 gal.	3 gals.	10 gals.	
Borers (Such as: Cottonwood, Peachtree) (1)	4 fl. oz.	12 fl. oz.	—	1. For peachtree borers apply this product in water to flowering trees and shrubs of the genus 'Prunus' as a trunk spray before newly-hatched larvae enter the trees. Apply as a coarse, low-pressure spray. Thoroughly wet all bark areas from ground level to scaffold limbs.
Beetles (Such as: Ambrosia, Anobidae, Black turpentine, Cottonwood leaf, Elm leaf, European elm bark, Flea, Fuller rose, Japanese, June, Native elm bark, Pine, Willow leaf) (1)	10 ² / ₃ fl. oz.	—	—	1. For preventive treatment apply the spray to the main trunk of trees in the early spring or when threat of attack exists from nearby infested trees. For remedial treatment apply the spray to the main trunk of infested trees when damage occurs but before adult beetles begin to emerge.

*Numbers in parentheses refer to Specific Directions.

DORMANT SPRAY (TREE PESTS)

Use this product as a dormant or delayed dormant spray at the rates indicated to control the listed insects. Spray the entire tree to runoff using suitable ground spray equipment. Use the higher dosage of this product for severe infestations. Use a dormant spray oil as recommended by your State Agricultural Experiment Station or Extension Service specialist. RESTRICTIONS: Make only one application during the dormant season. Do not allow meat or dairy animals to graze in treated areas.

Pest*	Amount of This Product in Water to Make:			Specific Directions
	1 gal.	3 gals.	25 gals.	
Aphids (Such as: Mealy plum, Rosy apple, Woolly apple)	1/3 to 2/3 fl. oz.	1 to 2 fl. oz.	1/3 to 1 pt.	Mix in water with 1 to 2 percent of petroleum spray oil recommended for dormant use.
Borer (Such as: Peach twig)	(2 to 4 tps.)			
Cutworms (Such as: Climbing)				
Leafrollers (Such as: Pandemis)				
Pear psylla adults				
Plant bugs				
Scale (Such as: San Jose)				

Pest*	Amount of This Product in Water to Make:			Specific Directions
	1 gal.	3 gals.	10 gals.	
Armyworms (Beet)	2 1/2 fl. oz.	2 fl. oz.	6 1/3 fl. oz.	1. To reduce twig and branch feeding by bark beetles applications should be made in the spring or early summer.
Beetles (Fuller rose, Native elm bark) (1)	(4 tps.)			2. To kill migrating and invading gypsy moth larvae treat trunks and foliage.
Cutworms				3. Blackvine weevils are night feeders. Late afternoon spraying will give control in some areas.
Leafhoppers				
Mahogany webworm				
Mealybugs				
Mimosa webworm				
Moths (Such as: Brownail, Cypress tip, Douglas fir tussock, European pine shoot, Gypsy (2), Holly bud, Nantucket pine tip, Pandora, Pitch pine tip, Subtropical pine tip, Tussock)				
Oakworms (Such as: California, Orangestriped, Redhumped)				
Redhumped caterpillar				
Thrips (exposed)				
Weevils (Such as: Blackvine (3), Yellow Poplar, Pine reproduction)				
Beetles (Such as: Cottonwood leaf (1), Elm leaf, Flea, Willow leaf)	2 1/2 to 1 1/3 fl. oz. (4 to 8 tps.)	2 to 4 fl. oz.	6 1/3 to 12 2/3 fl. oz.	1. For cottonwood leaf beetles use this product in water to control larvae and adults infesting cottonwoods. Make the treatment when field counts indicate damaging beetle populations are developing or present.
Borers (1): Clearwing moths (Such as: Ash, Dogwood, Lesser peachtree, Lilac, Oak, Rhododendron), Metallic wood (Such as: Bronze birch, Flatheaded apple tree, Twined chestnut), Longhorned beetles (Such as: Locust, Red oak)	1 1/3 fl. oz. (8 tps.)	4 fl. oz.	12 2/3 fl. oz.	1. For borers, apply this product to the trunks and lower limbs of trees and shrubs when the adults begin to emerge. Consult your State Agricultural Experiment Station or Extension Service Specialist for proper time to treat. Apply uniformly as a coarse low-pressure spray.
Leafminers				
Needleminers (Such as: Jeffrey pine, Lodgepole pine, Spruce)				
Scale crawlers (Such as: Cottonycushion, Cottonycapple, Euonymus, Fletcher, Florida wax, Golden oak, Hemispherical, Lecanium, Magnolia, Oak kermes, Oystershell, Pine needle, San Jose, Tea, White birch)				

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

BEST AVAILABLE COPY