

FEB 04 1997

Ms. Beverly Randall
Universal Cooperatives, Inc.
7801 Metro Parkway
P.O. Box 460
Minneapolis, Minnesota 55440

Subject: Revised Labeling; Revised Basic Formulation
Red Panther Dursban 1
EPA Registration Number 1386-628
Your Application Dated October 22, 1996

Dear Ms. Randall:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, is acceptable provided that you make the labeling changes indicated below before you release the product for shipment bearing the amended labeling:

1. In the ingredients statement, revise the footnote to "Contains aliphatic and aromatic petroleum solvents."
2. On page 5 of the draft labeling, in the NATIVE ELM BARK BEETLE section, the reference to application with "either a back pack mist blower or a hydraulic pressure sprayer" suggests that the product is within the scope of the Worker Protection Standard. You may either:

Delete the reference to that equipment and substitute "suitable hand- or power-operated spray equipment," or,

Add, at the beginning of the Directions for Use, the exclusionary statement, "Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes or climatic modification and being grown in lawns and grounds."

Submit five (5) copies of your final printed labeling before you release the product for shipment.

A stamped copy of the labeling is enclosed for your records.

Your application included a Confidential Statement of Formula, dated October 21, 1996, showing a revised basic formulation for this product. The formulation is acceptable and we have added the material to our files. Unless you notify us to the contrary, we will assume that this is to supersede and replace all previous formulations for the product.

Sincerely yours,

DHE

Dennis H. Edwards, Jr.
Product Manager (19)
Insecticide-Rodenticide Branch
Registration Division (7505C)

Enclosure

3/11

RED PANTHER DURSBAN* I

Controls Numerous Pests of Turf and Ornamental Plants Around the Home

ACTIVE INGREDIENT:

Chlorpyrifos: O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl)phosphorothioate	12.6%
INERT INGREDIENTS	87.4%
TOTAL	100.0%

(Contains Xylene Range Aromatic Solvent)

KEEP OUT OF REACH OF CHILDREN

WARNING

*Trademark of DowElanco

EPA Reg. No. 1386-628
EPA Est. No. 1386-OH-1

NET WEIGHT: 1 Quart

Manufactured by:
Universal Cooperatives, Inc.
Minneapolis, MN 55440

ACCEPTED
with COMMENTS
in EPA Letter Dated

FEB 04 1997

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

1386-628

REC'D 11/16/97/DPD1
96 OCT 29 AM 1:32

PRECAUTIONARY STATEMENTS
Hazards to Humans and Domestic Animals
Keep Out of Reach of Children

WARNING

Causes Substantial But Temporary Eye Irritation • Harmful If Swallowed • This Product May Cause Skin Sensitization Reactions In Certain Individuals

Do not get in eyes or on clothing. Avoid contact with skin. Wear eye protection when handling. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

FIRST AID

If In Eyes: Hold eyelids open and flush with steady, gentle stream of water for 15 minutes. Get medical attention immediately.

If Swallowed: Call a physician or poison control center immediately. Drink promptly a large quantity of milk, egg white, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol. Contains aromatic solvent. Do not induce vomiting. Do not give anything by mouth to an unconscious person.

If On Skin: Immediately wash with plenty of soap and water. Get medical attention.

If Inhaled: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

NOTE TO PHYSICIAN: Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. 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.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish, birds, and aquatic invertebrates. Birds feeding in treated area may be killed. Clean up spilled product to reduce exposure to wildlife. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Runoff may be hazardous to aquatic organisms in neighboring areas. 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.

PHYSICAL AND CHEMICAL HAZARDS

DO NOT USE OR STORE NEAR HEAT OR OPEN FLAME.

DIRECTIONS FOR USE

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

STORAGE AND DISPOSAL

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

STORAGE: Store in original container out of the reach of children and pets. Do not store above 100° for extended periods of time. If container is damaged or spill occurs, use product immediately or dispose of product and damaged container as indicated below.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Mixing Instructions: When diluting DURSBAN I, first add approximately one-half of the water to the spray tank; add the proper amount of DURSBAN I. Close the tank and shake for 5 to 10 seconds; than add the remaining water slowly.

NOTE: 1 fluid ounce = 2 tablespoonfuls = 6 teaspoonfuls

1 fluid ounce = 29.6 milliliters

DOSAGES AND DIRECTIONS FOR USE ON TURF

Use DURSBAN I to control the pests listed in the following table by application at the recommended dosages and in accordance with the directions given below. Dilute DURSBAN I in water (1-3 gallons of water per 1,000 sq. ft.) 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.

Attention: Do not allow adults, children, or pets on treated areas until spray has dried. Keep out of fishpools and other bodies of water.

Pest	Dosage DURSBAN I per 1000 sq. ft.	Remarks
Ants, Armyworms, Chiggers, Chinch Bugs, Clover mite, Crickets, Cutworms, Earwigs, Fleas, Grasshoppers, Sod webworms, Ticks	3 fl. oz.	Spray when pests first appear, retreat when needed. For sod webworms, delay watering or mowing the treated area for 12 to 24 hours after treatment.

Turfgrass (Hyperodes) weevil	6 fl. oz.	Spray suspected problem area in mid-April and again in mid-May or as recommended by your local Agricultural Extension Service specialist for your area.
White grubs (Such as: European chafer and Japanese beetle larvae)	6 to 12 fl. oz.	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.
Bluegrass billbug	3 to 12 fl. oz.	Spray early in the season when adults appear. Repeat as needed.

1 1/2 fl. oz. per 1000 sq.ft. = 7 1/2 fl. oz. per 5000 sq.ft. = 1 pint per 10,700 sq.ft.
 - 2 quarts per acre.

DOSAGES AND DILUTIONS FOR USE ON ORNAMENTAL PLANTS

Pests of Ornamentials: Use DURSBAN I to treat flowers, shrubs, vines, shade and flowering trees and evergreens found to be infested with the pests listed in the following table. Dilute DURSBAN I with water according to directions given in the following table and apply using suitable hand or power spray equipment in a manner to provide complete and uniform coverage. For best results apply a wetting spray to 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. **NOTE: Do not use on azaleas, camellias, poinsettias, rose bushes, or variegated ivy because of possible injury to these plants.**

BORER: Apply DURSBAN I to the trunks and lower limbs of trees and shrubs when the adults begin to emerge. Consult your State Agricultural Experimental Station or Extension Service specialist for proper time to treat in your area. Apply uniformly on trees as a coarse, low-pressure spray.

PEACH TREE BORER: Apply DURSBAN I (4 fl. oz. to 1 gallon of 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. Consult your State Agricultural Experimental Station or Extension Service specialists for proper time to treat in your area.

NATIVE ELM BARK BEETLE: Prevention of Overwintering: To prevent the adult beetle from overwintering in uninfested trees and to reduce beetle populations in disease-free areas, apply DURSBAN I as a 0.5% mixture of chlorpyrifos in water to the bottom 9 feet of the trunk. Wet the trunk thoroughly but do not spray to runoff. Care should be taken to apply the spray right to the base of the root flare. Applications can be made with either a back pack mist blower or a hydraulic pressure sprayer from spring through to the early fall. Prevention of Branch and Twig Feeding on High Value Elm Trees, to reduce the twig and branch feeding on uninfested trees deemed to be high in value apply 0.5% chlorpyrifos water spray to the tree crown. Application should be made in the spring or early summer using a sprayer that will give thorough coverage to the tree crown.

NOTE: Mosquitoes coming to rest on areas treated for control of turf and ornamental plant pests will be killed for varying periods of time after treatment, depending on exposure of treated areas to weathering conditions.

Pests Controlled	Amount of DURSBAN I in Water to Make:	
	1 gallon	3 gallons
Aphids, Bagworms, Easter tent caterpillar, Fall webworm, Grasshoppers, Mites, Orangestriped Oakworm, Spittlebugs, Whiteflies, Yellownecked caterpillar	1/3 fl. oz.	1.0 fl. oz.
Cutworms, Leafhoppers, Mealybugs, Mimosa webworm, Redhumped caterpillar, Thrips (exposed)	2/3 fl. oz.	2.0 fl. oz.
Ash borer, Lilac borer, Scale crawlers: Oak lecanium, Pine needle, Tea, White peach	1 1/3 fl. oz.	4 fl. oz.

NOTE: 2 tablespoons = 1 fl. oz.

Pests on Outside Surfaces and Around Buildings

Use DURSBAN I to control the pests listed in the following table by application at the recommended dosages and in accordance with the directions given below.

Apply DURSBAN I by application as a residual spray to outside surfaces of buildings and surrounding areas, including porches, window frames, doorways, foundations, eaves, patios, garages, refuse dumps, garbage cans and garbage areas, and other areas where pests congregate or have been seen or where they can gain entrance. Repeat treatment as needed to maintain effectiveness. Use a 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 square feet to thoroughly and uniformly wet the band areas.

For Band Treatment:

Pest	Amount of DURSBAN I to Mix in Water to Make:	
	1 gallon	3 gallons
Ants, Beetles, Box Elder Bugs, Carpenter ants, Centipedes, Clover mites, Cockroaches (American, Smoky Brown), Crickets, Earwigs, Elm Leaf Beetles, Fleas, Millipedes, Scorpions, Silverfish, Sowbugs, Spiders, Springtails, Ticks	1/3 fl. oz.	1 fl. oz.

- For additional information, see section on control of Wood-Infesting Insects.
- Remove accumulations of lumber, firewood, and other materials which serve as harborage sites and treat areas beneath and adjacent to infested areas.

On Outside Surfaces

Pest	Amount of DURSBAN I to Mix Water to Make:	
	1 gallon	3 gallons
Ants, Bees, Beetles, Box Elder Bugs, Carpenter ants, Carpenter bees, Centipedes, Clover mites, Cockroaches, Crickets, Earwigs, Elm Leaf Beetles, Fleas, Flies, Hornets, House Flies, Millipedes, Mosquitoes, Scorpions, Silverfish, Sowbugs, Spiders, Springtails, Ticks, Wasps, Yellowjackets	5 1/3 fl. oz.	1 pt

- For additional information, see section on Control of Wood-Infesting Insects.
- Remove accumulations of lumber, firewood, and other materials which serve as harborage sites and treat areas beneath and adjacent to infested areas.

Control of Wood-Infesting Insects Outdoors

Use DURSBAN I for the control of wood-infesting insects found around homes and other structures. For treatment of small areas, apply by brushing or spraying the diluted spray evenly on wood surfaces. For large or overhead areas, use a coarse, low-pressure spray, being careful to avoid dripping or run-off. Suitable protective clothing should also be worn in confined or overhead areas to help avoid exposure to eyes and skin. As a minimum, eye protection, protective head covering, chemically resistant gloves and footwear, a long-sleeved shirt, and long-legged pants or coveralls are recommended.

Do not permit people or pets to contact treated surfaces until spray has dried. Treated areas (especially those which are confined) should be ventilated during and immediately following application before the areas are reoccupied.

Pest	Amount of DURSBAN I to Mix in Water to Make:	
	1 gallon	3 gallons
Beetles Such as: Anobiidae: - Furniture beetles - Deathwatch beetles - False powderpost beetles Bostrichidae - Appletwig borer Cerambycidae - Longhorned beetles Lyctidae - Powderpost beetles Carpenter ants and other wood- infesting ants Carpenter bees Termites	5 1/3 fl. oz.	16 fl. oz.

Specific Directions:

- For beetles, spray infested areas and areas where infestations are likely to occur, including, but not limited to, wood surfaces, voids and channels in damaged wood, in spaces between wooden members of a structure, and between wood and foundations. Applications may be made to inaccessible areas by drilling and by then injecting the solution.
- For wood-infesting ants, apply the spray around doors and windows and other places where these ants enter the premises and where they crawl and hide. Also spray into cracks and crevices or through openings or small, newly-drilled holes into wall voids or other areas where these ants or their nests are present. Do not spray water based sprays into electrical outlets or utilities.
- For carpenter bees, spray or inject insecticide into holes and tunnels already made by carpenter bees, or spray onto localized areas where carpenter bees are beginning to build tunnels in wood.
- For termites, spray localized areas of structures, including voids and channels in damaged wood, in spaces between wooden members of a structure and between wood and foundations where infestation is likely to occur. Treatment of localized areas is intended to kill workers and winged reproductive forms of termites in the treated areas and to prevent infestation for a temporary period. This type of application is not intended to be a substitute for soil treatment or mechanical alteration to control subterranean termites.

WARRANTY AND LIMITATION OF DAMAGES

Seller warrants that this material conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use and **Buyer** assumes the risk of any use contrary to such directions. **Seller** makes no other express or implied warranty, including any other express or implied warranty of **Fitness** or of **Merchantability**, and no agent of **Seller** is authorized to do so except in writing with a specific reference to this warranty. In no event shall **Seller's** liability for any breach of warranty exceed the purchase price of the material as to which a claim is made.