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DUAL USE E.C.

- * CONTAINS PYRENONE® FOR QUICK KNOCKDOWN AND FLUSHING AND CHLORPYRIFOS FOR RESIDUAL ACTION
- * USE INDOORS AND OUT-OF-DOORS
- * CONTROLS NUMEROUS INSECT PESTS IN OR AROUND ANIMAL QUARTERS, HOUSEHOLDS, FOOD PROCESSING PLANTS, RESTAURANTS, FACTORIES, WAREHOUSES, INSTITUTIONS, TRUCKS, RAILROAD CARS, TURF, ORNAMENTAL PLANTS, AND AREAS INFESTED WITH MOSQUITOES AND TICKS.

ACTIVE INGREDIENTS:

Pyrethrins.....	3.33%w/w
*Piperonyl Butoxide, Technical	16.64%
Chlorpyrifos (0,0-Diethyl 0-3,5,6, trichloro-2 pyridyl) phosphorothioate	31.99%
**INERT INGREDIENTS:	48.04%
	100.00%w/w

*Equivalent to min. 13.31% (butylcarbitol(6-propylpiperonyl) ether and 3.33% related compounds.**Contains Petroleum Distillate and Aromatic Petroleum Derivative Solvent.
PYRENONE is a registered trademark of Roussel Uclaf Corporation.

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

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

EPA REG. NO. 4816-537

EPA EST. NO.

KEEP OUT OF REACH OF CHILDREN WARNING

STATEMENT OF PRACTICAL TREATMENT

IF ON SKIN: Remove contaminated clothing and wash skin with soap and water. Wash contaminated clothing before reuse.

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

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

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

with COMMENTS
In EPA Letter Dated

APR 21 1994

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

ROUSSEL UCLAF



Roussel Uclaf Corporation
95 Chestnut Ridge Road
Montvale, NJ 07645

DUALS 100593TK

PRECAUTIONARY STATEMENTS

Hazards To Humans & Domestic Animals

WARNING

May be fatal if swallowed. May be absorbed through the skin. May be injurious to eyes and skin. Do not get in eyes, on skin, or clothing. Wash thoroughly with soap and water after handling and before eating or smoking. Avoid breathing vapors and spray mist. Do not spray food crops. Keep away from food, foodstuffs and domestic water supplies. After indoor use, ventilate rooms for at least 1 hour.

Environmental Hazards

This product is toxic to fish, birds, and wildlife. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply where runoff is likely to occur. Do not apply where weather conditions favor drift from areas treated. 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 crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area. Protective information may be obtained from your Cooperative Agricultural Extension Service.

Physical Or Chemical Hazards

Do not use or store near heat or open fire.

DISPOSAL

Do not reuse empty container. Wrap container and put in trash collection.

DIRECTIONS FOR USE

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

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 interior plantscapes, ornamental gardens or parks, or on golf courses or lawns and grounds.

INDOOR USE

APPLICATION WITHIN FOOD HANDLING ESTABLISHMENTS: (Places other than private residences in which exposed food is held, processed, prepared or served) including, but not limited to, areas for receiving, storage, packing (canning, bottling, wrapping, boxing), preparing, edible waste storage and enclosed processing systems (mills, dairies, edible oils, syrups) and serving areas (when food is exposed and facility is in operation): Use as a spot and/or crack and crevice treatment in and around both food and nonfood areas to control *Cockroaches*, *Ants*, *Waterbugs*, *Silverfish*, *Spiders*, and *Crickets*. Dilute this product with water or with a suitable base oil to make a 0.25% to 0.5% chlorpyrifos spray as shown in the following Spray Dilution Chart.

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SPRAY DILUTION CHART

Gallons of Spray Mixture desired	Fluid ounces* of concentrate to make	
	0.25%	0.50% Spray
Water-Base Spray		
1	1	2
3	3	6
5	5	10
10	10	20
Oil Base Spray**		
1	3/4	1 1/2
3	2 1/4	4 1/2
5	3 2/3	7 1/3
10	7 1/4	14 1/2

*Note: 1 fluid ounce - 2 tablespoonsful or 6 teaspoonsful.

**Calculated on basis of deodorized kerosene.

Apply in small amounts directly into cracks and crevices using equipment capable of delivering a pin stream of insecticide. For spot treatment apply as a coarse low pressure (20 psi or less) spray to localized areas, in points between different elements of construction, between equipment and floor, openings leading to voids and hollow spaces in walls, equipment legs and bases in conduits, motor housing, junction or switch boxes. Prior to application de-energize electrical equipment. After application allow time for oil to evaporate before starting motors or placing switches in "ON" position. Care should be taken to avoid depositing the product onto exposed surfaces or introducing the material into the air. Avoid contamination of food and food processing surfaces.

APPLICATION OF THIS PRODUCT IN THE FOOD AREAS OF FOOD HANDLING ESTABLISHMENTS OTHER THAN AS A SPOT AND/OR CRACK AND CREVICE TREATMENT IS NOT PERMITTED.

SERVING AREAS: Facilities where foods are served such as dining rooms, but excluding areas where foods may be prepared or held, apply as a spot treatment to selected surfaces, such as baseboards, under elements of construction and into cracks and crevices. Avoid treating surfaces likely to be contacted by food. (Do not apply when facility is in operation or foods are exposed).

APPLICATION IN NON-FOOD AREAS OF INSTITUTIONS, RESTAURANTS, FOOD PROCESSING, OFFICE BUILDINGS, PLANTS AND IN AND AROUND HOMES: Includes garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets, and storage (after canning or bottling). Apply as spot treatment to baseboard areas, around water pipes, surfaces behind and beneath sinks, lockers, tables, pallets, and similar areas where insects hide or through which they may enter. Repeat treatment as required.

INDOOR PESTS: General Information: Use this product as a spot treatment to control *Cockroaches, Ants, Crickets, Firebrats, Silverfish, Spiders, Confused Flour Beetles, Sawtoothed Grain Beetles, Indianmeal Moths, Rice Weevils, Mediterranean Flour Moths, And Red Flour Beetles* in and around residential, institutional, industrial and commercial buildings, including homes, apartment buildings, hospitals, stores, manufacturing plants and warehouses. Use a 0.25% spray to quickly reduce heavy infestations. For spot treatment, apply as a coarse spray or with a paint brush to localized areas where these pests 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.

FLEAS AND BROWN DOG TICKS: Thoroughly apply 0.5% spray as a spot treatment to infested areas such as pet beds and resting quarters; nearby cracks and crevices; along and behind baseboards, windows and door frames and localized areas of floor and floor covering where these pests may be present. Old pet bedding should be removed and replaced with clean fresh bedding after treatment. Repeat treatment as necessary. Do not treat pets with this product. Pets should be treated using an approved insecticide to prevent reinfestation.

WARNING (PESTS INDOORS): Do not allow children or pets to contact treated surfaces until spray has dried. Remove pets and cover fish aquaria before spraying. Do not allow spray to contact foods, foodstuffs, and water supplies. Thoroughly wash dishes and food handling utensils and surfaces with soap and water if they become contaminated by application of this product.

ANIMAL QUARTER USE (KENNELS, CATTLE BARN, HORSE BARN, POULTRY HOUSES, SWINE HOUSES, ZOOS, MILKING PARLORS, MILKROOMS, AND DAIRIES: Use this product as a surface treatment to control *Cockroaches, Ants, Crickets, Firebrats, Silverfish, And Spiders* and to aid in reducing annoyance from *Flies, Wasps, Small Flying Moths, Mosquitoes And Gnats*. Using the 0.50% spray, apply as a coarse spray or with a paintbrush to localized areas where these pests are found or normally occur, including corners, cracks and crevices in walls, along and behind baseboards, beneath and behind equipment, around plumbing and other installations. Also treat surfaces around light fixtures, window and door frames, and other places where flying insects alight or congregate.

WARNING (ANIMAL QUARTER USE): Do not allow spray to contact foods, foodstuffs, and water supplies. Thoroughly wash food or feed handling equipment and surfaces with soap and water if they become contaminated by application of this product. Do not treat animals or poultry with this product. Do not use as a space spray. In zoos, avoid exposure of reptiles to the product.

OUTDOOR USE

PESTS OUT OF DOORS, General Information: Pests of lawn and other ornamental recreational turf grass areas: Use this product to control *Ants, Brown Dog Ticks, Chinch Bugs, Crickets, Cutworms, Earwigs, Grasshoppers, And Sod Webworms (Lawn Moths)*. Mix this concentrate with water according to directions given in the following table and apply as a coarse, low pressure spray. For best results, the lawn should be moist at time of treatment and care should be taken to obtain complete and uniform coverage of infested areas. Spray when pests first appear. Repeat when needed.

DOSAGE AND DILUTIONS FOR USE ON TURF

Area to Be Treated	Amount of Concentrate	Dilute With Water to Give
170 sq. ft.	1/4 fl. oz. (6.6 ml)	5 gallons
500 sq. ft.	2/3 fl. oz. (20 ml)	15 gallons
1,000 sq. ft.	1 1/3 fl. oz.	30 gallons
5,000 sq. ft.	5 1/2 fl. oz.	150 gallons
10,700 sq. ft.	11 1/2 fl. oz.	325 gallons
One Acre	1 1/2 qts.	1,000 gallons

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TO CONTROL CERTAIN WHITE GRUBS: (LARVAE OF EUROPEAN CHAFER AND JAPANESE BEETLE): Use two to four times the amount of this concentrate shown in the Turf Table, i.e. 2 1/4 to 4 1/2 fl. oz. per 1,000 sq. ft. or 3 or 6 quarts per acre. Apply in enough water to obtain uniform coverage, followed by thorough watering to wash the insecticide into the turf. For best results treat when grubs are young and actively feeding near the soil surface, usually during late July and August. Consult your local Agricultural Extension Service Specialist for proper times to treat in your area.

TO CONTROL TURFGRASS (HYPERODES) WEEVILS: Use twice the amount of this product shown in the Turf Table (i.e. 3 quarts diluted in 1,000 gallons of water per acre, or 1/2 ounce in 5 gallons per 166 sq. ft.). Spray suspected problem areas in mid-April and again in mid-May. Consult your local Agricultural Extension Service Specialist for proper time to treat your area. Note: To help prevent infestation of buildings by *Ants*, *Crickets*, *Earwigs* And *Sowbugs (Pillbugs)*: Treat a band of soil 6 to 10 feet wide around and adjacent to the building, and treat the building foundation to a height of 2 to 3 feet, where pests are active and may find entrance. Use the same dosage and dilution recommended for control of these pests as shown in the Turf Table. Apply as a coarse spray to thoroughly and uniformly wet the band areas.

PESTS OF ORNAMENTALS: Use this product to control *Aphids*, *Bagworms*, *Cutworms*, *Grasshoppers*, *Leafhoppers*, *Mealybugs*, *Mites*, *Spittlebugs*, *Thrips (exposed)*, *Whiteflies*, *†Eastern Tent Caterpillars*, *†Yellownecked Caterpillars*, *†Mimosa Webworms*, *†Ash Borers*, *†Lilac Borers*, *†Dogwood Borers*, *†Oak Lecanium Scales*, *†Pine Needle Scales*, *†Tea Scales* And *†White Peach Scales* on flowers, shrubs, vines, shade trees, flowering trees and evergreens found to be infested with these pests. Dilute this product according to directions given in the following table and apply with suitable hand or power spray equipment to provide complete and uniform coverage of infested plants. Avoid overspraying to a point of excessive coverage of infested plants. Avoid overspraying to a 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.

DOSAGE AND DILUTIONS FOR USE ON ORNAMENTAL PLANTS

Pests Controlled	Amount of Concentrate In water to Make		
	3 Gallons	10 Gallons	100 Gallons
Aphids Bagworms †Eastern Tent Caterpillars Grasshoppers Mites Spittlebugs Whiteflies †Yellownecked Caterpillars Cutworms Leafhoppers Mealybugs †Mimosa Webworms Thrips (exposed) †Ashborers †Dogwood Borers †Lilac Borers	1 1/3 fl. oz. 2 1/3 fl. oz.	4 1/2 fl. oz. 2 1/2 fl. oz.	44 fl. oz.*** 23 fl. oz. **

Pests Controlled	Amount of Concentrate In water to Make		
	3 Gallons	10 Gallons	100 Gallons
†Scale Crawlers; †Oak Lecanium †Pine Needle †Tea †White Peach	1 1/3 fl. oz.	4 1/2 fl. oz.	44 fl. oz.***

*Equivalent to 4 oz. of chlorpyrifos per 100 gallons.

**Equivalent to 8 oz. of chlorpyrifos per 100 gallons.

***Equivalent to 1 pound of chlorpyrifos per 100 gallons.

†These insect control claims not registered in California.

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.

WARNING (LAWN AND ORNAMENTAL PLANT PESTS): Keep children and pets off treated areas until spray has dried. Keep out of lawn and garden fishpools and other bodies of water. Fish may be killed if their waters are contaminated with this product. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated.

AREA CONTROL OF TICKS: Use this product to control *Ticks* infesting non-crop land 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 health hazard. Apply this concentrate in water at the rate of 24 fl. oz. per acre (equivalent to 1 / fl. oz. per 2,700 sq. ft., or 0.6 ounces (16.5 ml) per 1000 sq. ft.) using a hydraulic sprayer, mist applicator, knapsack sprayer or other suitable hand or power spray equipment. Treat low underbrush, grassy areas, weeds, ground surface and debris using enough spray volume to obtain thorough coverage, usually 40 to 100 gallons per acre, or 1 to 3 gallons per 1000 sq. ft.

WARNING (AREA CONTROL OF TICKS): Do not allow public use of treated areas during application or until spray has dried. Do not apply when weather conditions favor drift from treated areas. Do not apply where runoff into lakes, streams, ponds or other bodies of water is likely to occur. Fish and crustaceans may be killed if their waters are contaminated with this product.

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

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