CARDINAL CHEMICAL COMPANY



FIFTY FRANCISCO ST SAN FRANCISCO CALIFORNIA 94133

EPA EST 5440-CA-1

PROTECTING THE FOODS THAT FEED THE NATION

CARDINAL 25-5 INSECTICIDE

PARTY MADE AND THE PROPERTY OF

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if swallowed Avoid breathing vapor Avoid Contact with skin, eyes or chithing. Wear protective clothing. Wash exposed skin with soap and water after handling and before eating. Wash all contaminated clothing with soap and water separately from other clothing before

Do nul appy directly to food. In commercial food handking facilities, cover or remove any food and food processing equipment during application. Do not apply while food processing is under way. After space spraying in meat packing plants, bakeries and other processing. plants, wash all equipment benches, shelving, etc. thoroughly with an acceptable detergent solution and then rinse with potable water to remove all traces of coniamination where food will be handled. In the home, all food processing surfaces and utensils should be covered during treatment or thoroughly washed before use

Remove pits and birds, and cover !sh aquanams Lefore spraying

FIRST AID

If in eyes. Flush eyes with plenty of water. Get medical attention if imitation persists

If on skin. Wash skin with plenty of soap and water. Get medical attention if irritation persists

PHYSICAL OR CHEMICAL HAZARDS

Extinguish open flame before space spraying. This formulation is combustible DO NOT USE, POUR, SPILL 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. SEF SIDE PANEL FOR ADDITIONAL INSTRUCTIONS

STORAGE AND DISPOSAL

STORAGE. Do not contaminate water, food or feed by storage or discose

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 by other procedures approved by state and local authorities.

CONTAINS 5% PYRETHRINS

For indoor or outdoor application as a space, area or contact spray. Dependent upon pests to be controlled and the area to be treated, may be applied through mechanical generators (ULV) as well as conventional fogging or spraying equipment.

ACTIVE INGREDIENTS:

Pyrethrins:	5 00%
*Piperonyl Butoxide, Technical	25 00%
"INERT INGREDIENTS:	70.00%
TOTAL:	100 00%

"Equivalent to 20 00% (butylcarbityl)(6-propylpiperonvi) ether and 5 00% related compounds **Contains Petroleum Distillate

KEEP OUT OF REACH OF CHILDREN CAUTION

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

EPA Reg. No. 5440-115

WARRANTY STATEMENT. Our recommendations for use of this product are based upon tests believed to be reliable. The use of this product is beyond the control of the manufacturer. No guarantee, expressed or implied, is made as to the effect of such or the results to be obtained if not used in accordance with directions or established safe practice. The buyer must assume all responsibility, including injury or damage, resulting from its misuse as such or in combination with other

DIRECTIONS FOR USE, continued

Cardinal 25-5 Insecticide is effective in the control of the indicated insects if the applicator follows directions for use as enumerated below

Angoumois Grain Molh Horn fles "ornets Hurse flies Boxelder Bugs House thes Cadelles Cheese Miles Indian mear moths Cheese Skippers

Cigarette Bettles Mediterranean flour moths Clover mites Mosquitoes Mushroom flies Cockroaches (German) Confused flour beetles Red flour beetles

Dark mealworms Aire weens Saw toothed grain beetles Deer thes Dried fruit beetles Silvertish

Drugstore beetles Small flying moths Earwigs Sorder Spider beetles

Fruit Hies Gnat: Stable flies Grain mites Tobacco moths

Granary weevils Waso:

Yellow mealworms

INDOOR USE AS A SPACE SPRAY, UNDILUTED

The use of this product in food processing or food handing establishments (bakeries, beverage plants, canneries, food processing plants hospitals, hotels, industrial installations, restaurants, schools, supermarkets, and warehous it should be confined to the time periods when the plants or far ilities are not in operation. Foods should be removed or covered during treatment. All food processing surfaces should be covered during treatment or thoroughly cleaned before using

Close windows and doors and shut off ventilating sysitems. Use a fogger or vaporizor adjusted to deliver an aerosol spray (no droplets over 50 microns in diameter and 80% less than 30 microns). Apply at a rate of % ounce per 1000 cubic feet of space. Direct the spray toward the ceiling and upper corners of the area and behind obstructions. Keep the area closed for at least 15 minutes. Vacate the Ireated area and ventilate before reoccupying. Repeat treatment as necessary.

The above described application will hill accessible, exposed stages of flies, (including fruit flies) most uitces. small! flying moths, gnats, will ps, horners, clover mites, cheese miles, cheese skippers, boxelder bugs, earwigs, ants, and the following common stored product pests granary weekls, rice weekls, confused flour beetles. saw-toothed grain heetles, spider beetles, cigarette beetles, drugstore beetles, Angoumois grain moths, Mediterranean flour moths, Indian meal moths, tobacco moths, yellow mealworms, dark mealworms, grain miles, cadelles and red flour beetles.

DRIED FRUIT PRODUCTS in storage or being processed, for control of confused fixer beetles, dried fruit beetles, Indian meal moths, saw-toothed grain beetles Remove and destroy intested products. As noted above, disperse this product as a fine must in the air above the trays and shelves. Do not apply to fruit directly

Use one ounce per 1000 cubic feet of space. Repeat application at this dosage in any given month. Leave the room closed for one hour. Do not remain in treated areas. and ventilate area before re-entry. This application will kill accessible, exposed stages of dired front beetles as well as those pests named above

STORED FOOD (Stored in multi-walled bags or in cloth baost in warehouses, storage rooms, flour mills, grain elevators, granaries, for control of Angoumois grain moths, cadelles, confused flour beetles, Indian meal moths, Mediterranean flour motilis, rice weevils, saw toothed grain beetles, yellow mea worms, cheese miles, cheese skippers, cigarette beettes, grain mites, granary weevils, dark mealworms, red flour beetles. Remove and destroy infested products. As directed above, disperse this product first by directing spray into corners, under pallets, and around stacks of packaged foods hitting as many insects as possible and then as a space spray Infested stored products should be furnigated or treated. by other effective methods using an approved product intended for this purpose. Use a disage of 1 fluid ounce per 1000 cubic feet of room space. Repeat application as necessary for insectiontrol. Leave the room closed for one hour. Do not remain in treated areas and ventilate. area before re-entry. This application will kill accessible, exposed stages of those stored product pests listed

INDOOR USE AS A SPACE SPREY, DILUTED.

For use in conventional mechanical fogging equipment, to kill flors, fruit flies, mosquitoes, small flying moths, and gnats. Cover or removed exposed food and food handing surfaces. Close room and shut off all air conditioning or ventilatiog equipment. Dilute 1: part of Cardinal 25-5 Insecticide plus 49 parts of oil (refined kerosene) and mix well. Apply at the rate of 1-2 fluid ounces per 1000 cubic feet filling the room with mist. Keep area closed for at least 15 minutes

Vacate treated area and ventilate before reoccupying Repeat Treatment when reinfestation occurs

SURFACE SPRAY. To insure maximum control of crawling insects (ants, boxelder bugs, clover mites, drugstore beetles, earwigs, lice, spider beetlesidilute 1 part of Cardinal 25-5 Insecticide plus 41 parts of oil (refined kerosene) and mix well and apply as a coarse droplet. using approximately 1 gallon to 750 square ft of suiface Spray walls, floors, and other surfaces of bins and storage and handling areas thoroughly, being especially careful to freat cracks, crevices, and similar hiding places. Treat unloading, handling and processing areas, and inside conveying, processing and handling equipment. Sprely thoroughly around the base of heavy machinery and equipment. Stray insects directly when possible

For infransif protection, clean and spray truck beds. boxcars, and ship's hold before loading. Thoroughly treat walls and floors and spray each layer of cartons or containers lightly as stacked. To control Indian meal. moth and Angoumo is meal moth in stored grain, apply to the surface of binned grain at a rate of 1 gallon per 1000 square feet. Apply at monthly intervals with the first appearance of moths and continuing until early fall. In case of severe infestation, break up webbing with rake before spraying and make a second application in two

As an aid in the control of mosquitoes, gnats, wasps, and skippers, treat walls, ceilings, moldings, screens, door and window frames, beams, light cords, and similar rest-

ANIMAL QUARTER USE (callle barns, horse barns, poultry houses, swine houses, zoos). As a space spray. diluted for use in conventional mechanical fogging equipment to kill flies, mosquitoes, small flying moths and gnats. Dilute 1 part of Cardinal 25-5 Insecticide plus. 49 parts of oil (refined kerosene) and mix well. Apply at the rate of 2 fluid ounces per 1000 cubic feet of space. above the animals. Direct spray towards the upper portions to the enclosure, filling the room with mist. Keep. area closed for at least 15 minutes. Vacate treated area. and ventilate before reoccupying. Repeat treatment when reinfestation occurs. IN MUSHROOM PRODUCTION AND PROCESSING To

Control mushroom thes or lungus gnats in growing houses dilute 1 part of Cardinal 25.5 Insecticide plus 49. parts of oil (refined kerosene) and mix well and apply at a rate of 1 ounce per 1000 cubic feet of space. Fogger should be opeated 8 to 10 leet away from beds and directed slightly upward over them. Circulating lans. 5 rould be left in operation, but for best results, refrigerafrom should be turned off. In packing and canning plants, use at a rate of 1 conce to 2000 cubic feet of space.

OUTGOOR GROUND APPLICATION UNDILUTED to control adult mosquitoes, gnats and small flying moths For best results, apply when there is a light breeze at approximately 5 miles purhour. Apply from the windward side so the fog will be carried across the area to be treated freat shrubbery and vegetation where mosquitoes may rest. Shrubbery and vegetation around stagnant nools, marshy areas aird ponds may be treated Application of this product to any body of water is prohibited. Repeat treatment as required.

Using truck-mounted equipment, the objective is to treat the area with 002 to 0025 pounds of pyrethrins and 010 to 0125 pounds of piperonyl bulande per acre Cardinal 25.5 Insecticide should be applied without further dilution. Dispense fig at the following flow rates depending upon the speed at which the truck is MOVING

Truck Speed Miles Per Hour 10

Ficw Rate of Cardinal 25-5 Insecticide Fluid Dunces per Minute 2 In 2 25 fluid oz 4 to 4.5 fluid or

Delivery rate and traveling speeds can be varied slightly so long as the basic objective of 002 to .0025 pounds actual pyrethrins per acre is maintained. Use a swath width of 300 feet for acreage calculations. To control mosquito larvae, dilute at the rate of 9 punces per 50. gallons of oil and apply at the rate of 20 to 25 gallons per acre. Apply as a coarse wetting spray to the border or on shallow water of well lands, swamps, and marshes where mosravito larvae are known to breed

TEMPORARY REDUCTION OF ANNOYANCE from Ilies. mosquitoes and small living moths outdoors. The aforementioned application for outdoor ground application will afford temporary reduction of annoyance from these pests in public gathering places (drive in restaurants, drive in theaters, golf courses, municipalities. parks, play grounds and recreational areas! Direct application into tall grass, shrubbery and around lawns where these pests may hover or rest. Apply while air is still. Avoid wetting foliage. Application should be made prior to attendance. Repeat as necessary. In additional outdoor areas (correls, feed lois, swine lots, and 2005). Cover water, drinking fountains, and animal feed before use. Fill area with mist directing application into tall grass, shrubbery and around lawns where these pests. may hover or rest. Apply while air is still. Avoid wetting: foliage in 2005, avoid exposure of reptiles to the product Repeat as necessary

FOR USE ON ANIMALS. To protect beef and daisy cattle. horses and dogs from horn files, house flies, mosquitoes and gnats, dilute 1 part of Cardinal 25-5 Insecticide plus 49 parts oil (refined kerosene) and mix well and apply a light mist sufficient to well the tips of the hair. To control stable flies, horse flies, and deer flies on beef and dairy califie and horses, apply 2 gunces per adult animal, sufficient to wel the hair but not to soak the hide. Repeat Ireatment once or twice daily or at intervals to give conlinued protection

To control the motile stages of blood sucking lice on beef and dairy cattle, apply the spray to thoroughly wet the hair. Use 2 ounces or less per animal and repeat every 2 to 3 weeks as required

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