

ENVIRONMENTAL PROTECTION AGENCY  
OFFICE OF PESTICIDES PROGRAMS  
REGISTRATION DIVISION (73-767)  
WASHINGTON, DC 20460

3050-118  
DATE OF ISSUANCE  
June 9, 1991

**NOTICE OF PESTICIDE:**  REGISTRATION  
 REREGISTRATION  
(Under the Federal Insecticide, Fungicide,  
and Rodenticide Act, as amended)

TERM OF ISSUANCE  
Conditional

NAME OF PESTICIDE PRODUCT  
Coyne Formula 132

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)  
  
Coyne Chemical Company  
11758 Sunrise Gold Circle  
Rancho Cordova, CA 95670

**NOTE:** Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit one/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) and 4(b) when the Agency requires all registrants of similar products to submit such data.

2. Make the following label changes:

- a. Add the phrase, "EPA Reg. No. 3050-118", before you release the product for shipment.
- b. Relocate the statement "NOTICE: If there is a need to treat such areas as conduits, motor housings, junction and switch boxes or other electrical equipment, de-energize electrical equipment prior to application. After application, allow time for oil to evaporate before starting motors or placing switches in the on position." This statement should be under 'Physical or Chemical Hazards'.
- c. Remove the statement "but not limited to such areas as", where-ever shown on the label.

ATTACHMENT IS APPLICABLE (next page)

SIGNATURE OF APPROVING OFFICIAL

DATE  
JUN 9 1991

- d. Add the statement to both the Indoor Use, Undiluted and Indoor Use, Diluted sections, immediately after the phrase "...ventilate before reoccupying." the following statement:

"Before spraying in hospital areas, remove all patients. After spraying ventilate area for 2 hours before returning patients."

- e. Add directions for application rates, given the various dilution rates given.

3. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labels.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

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

RFM

Richard F. Mountfort  
Product Manager 10  
Insecticide & Rodenticide Branch  
Registration Division (H7505C)

**PROTECTICIDE™  
COYNE FORMULA 132**

**Effective, Fast Acting PROTECTI-  
CIDE™ Insecticide Provides Flushing  
Action, and Quick Knockdown for  
Indoor or Outdoor Use as a Space,  
Area or Contact Spray.**

**Authorized by USDA for use in edible  
product areas of official establish-  
ments operating under the Meat,  
Poultry, Shell Egg Grading and Egg  
Products Inspection Program.**

**ACCEPTED  
with COMMENTS  
In EPA Letter Dated  
JUN 9 1991**

**Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
3050-118**

**ACTIVE INGREDIENTS:**

Pyrethrins ..... 1.18%  
\*Piperonyl Butoxide, Technical ..... 11.80%

**INERT INGREDIENTS:**

Petroleum Distillate ..... 87.02%  
TOTAL ..... 100.0%

\*Equivalent to 9.44% (butylcarbityl)(6-propylpiperonyl) ether and 2.36% related compounds.

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

**STATEMENT OF PRACTICAL TREATMENT**

**IF SWALLOWED:** Call a physician or poison control center immediately. Because of aspiration potential do not induce vomiting unless under direct medical supervision. Do not induce vomiting or give anything to an unconscious person.

**IF INHALED:** Remove victim to fresh air. Apply artificial respiration if indicated.

**IF ON SKIN:** Remove contaminated clothing and wash affected areas with soap and water.

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

**SEE SIDE PANEL FOR ADDITIONAL  
PRECAUTIONARY STATEMENTS**

**AVISO**

**PRECAUCION AL USUARIO**

Si usted no habla inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

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EPA Reg. No. 3050-  
EPA Est. No. 3050-CA-1

Coayne Chemical Company  
11358 Sunrise Gold Circle  
Rancho Cordova, CA 95742

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**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION**

Harmful if swallowed. Avoid breathing vapor. Avoid contact with skin, eyes or clothing. 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 re-use. Do not apply directly to processed food. In commercial food handling facilities, processed foods and food processing equipment should be covered or removed during application. Do not apply as a space spray while food processing is underway. Facilities and equipment in federally inspected meat and poultry plants must be washed with an effective cleaning compound and rinsed with potable water after spraying. In the home, all food processing surfaces and utensils should be covered during treatment or thoroughly washed before use. Remove pet birds, and cover fish aquariums before spraying.

**FIRST AID**

**IF SWALLOWED:** Call physician or poison control center immediately. Because of aspiration potential, do not induce vomiting unless under direct medical supervision. Do not induce vomiting or give anything to an unconscious person.

**IF INHALED:** Remove victim to fresh air. Apply artificial respiration if indicated.

**IF ON SKIN:** Remove contaminated clothing and wash affected areas with soap and water.

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

**PHYSICAL OR CHEMICAL HAZARDS**

This formulation is combustible. Extinguish open flame before space spraying. **DO NOT USE, POUR, SPILL, OR STORE NEAR HEAT OR OPEN FLAME.**

**ENVIRONMENTAL HAZARDS**

This product is toxic to fish. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not apply directly to water.

**DIRECTIONS FOR USE**

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

For indoor or outdoor application as a space, area or contact spray. Dependent upon pests to be controlled and the area to be treated, this product may be applied through Mechanical Aerosol Generators (ULV), conventional fogging, spraying and misting equipment, and compressed air sprayers.

**STORAGE AND DISPOSAL**

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

**STORAGE:** Store in a cool, dry place away from heat or open flame. Keep container closed when not in use.

**PESTICIDE DISPOSAL:** Pesticide, spray mixture or rinsate may be used on site according to label instructions or disposed of 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.

**CONTAINERS ONE GALLON AND SMALLER:** Do not reuse container. Wrap container in several layers of newspaper and discard in trash.

**This product should be used as directed for the control of, but not limited to, the following insects:**

Almond Moths, Angoumois Grain Moths, Ants, Boxelder Bugs, Brown Dog Ticks, Caddises, Carpet Beetles, Cereal Beetles, Cheese Mites, Cheese Skippers, Chocolate Moths, Cigarette Beetles, Clothes Moths, Clover Mites, Cockroaches, Confused Flour Beetles, Crickets, Dark Mealworms, Deer Flies, Drugstore Beetles, Earwigs, Face Flies, Firebrats, Fleas, Flies, Fruit Flies, Fungus Gnats, Grain Mites, Granary Weevils, Hide Beetles, Horn Flies, Hornets, Indian Meal Moths, Mediterranean Flour Moths, Mosquitoes, Mushroom Flies, Red Flour Beetles, Rice Weevils, Sawtoothed Grain Beetles, Scorpions, Silverfish, Small Flying Moths, Spiders, Spider Beetles, Stable Flies, Ticks, Tobacco Moths, Leaf Hoppers, Asparagus Beetles, Mexican Beetles, 12 Spotted Cucumber Beetles, Flea Beetles, Stink Bugs, Leaf Tiers, Harlequin Bugs, Fireworms, Blister Beetles, Colorado Potato Beetles, Flea Beetles, Vinegar Flies, Wasps, Yellow Jackets, Yellow Mealworms, Aphids, Moth Larvae, Diamondback Caterpillars, Cabbage Loopers, Cabbage Worms, Chrysanthemum Leaf Miners, Mealy Bugs, Omnivorous Leaf Rollers, Red Spider Mites, Spider Mites, Thrips, Vegetable Leaf Miners, White Flies, Dried Fruit Beetles, Warehouse Beetles, Rusty Grain Beetles, Lesser Grain Borers, Coffee Bean Weevils, Khapra Beetles, Fannia Flies, Blood Sucking Lice, Darkling Beetles and other similar insects.

### **INDOOR USE AREAS**

**For use in and around, but not limited to such areas as:**

Aircraft, Animal Areas & Quarters, Animal Shelters, Animal Control Centers, Apartments, Arcades, Auditoriums, Bakeries, Beverage Plants, Bars, Barns, Basements, Bathrooms, Boats, Bottling Plants, Breweries, Brewery Warehouses, Buildings, Busses, Cabins, Cabinets, Cafeterias, Carpets, Campers, Canneries, Cattle Barns, Churches, City Missions, Circus Tents, Closets, Communication Centers, Condominiums, Concession Stands, Court Houses, Dairy & Livestock Barns, Day Care Centers, Department Stores, Diners, Dog Houses, Dried Food Products in Storage or Processing, Drug Stores, Dumpsters, Dwellings, Egg Processing Plants, Freight Containers, Fruit Packing Sheds, Garbage Bins, Garbage Cans, Garbage Compactors, Garbage Trucks, Gas Stations, Goat Houses, Grain Elevators, Grain Harvesting & Handling Equipment, Garages, Grain Mills, Granaries, Greenhouses, Grocery Stores, Homes (Households), Horse Stables & Barns, Horse Trailers, Hospices, Hospitals, Hotels, Industrial Installations, Institutions, Jails, Kennels, Laboratories, Laundromats, Lavatories, Libraries, Liquor Stores, Livestock Barns, Livestock Hauling Equipment, Loafing Sheds, Locker Rooms, Marinas, Mills, Mausoleums, Meat Packing Plants, Milkrooms, Mini-Storages, Mobile Homes, Morgues, Motels, Movie Theaters, Museums, Mushroom Houses, Mushroom Processing, Nurseries (Horticultural), Nursing Homes, Office Buildings, Parking Garages, Passenger Railroad Cars, Pool Halls, Peanut Warehouses, Planes, Poultry Houses, Poultry Plants, Pounds, Prisons, Public Storages, Rabbit Processing Plants, Railroad Cars, Recreational Vehicles (RV's), Research Animal Quarters, Restaurants, Retail Stores, Rice Mills, Schools, Shade Houses, Ships, Ship Holds, Smoke Shops, Stables, Stable Bins, Storage Bins, Stored Food in Multi-walled Paper or Cloth Bags, Stores, Supermarkets, Swine Houses, Textile Mills & Warehouses, Theaters, Tobacco Factories, Tobacco Warehouses, Tool Sheds, Trains, Transportation Equipment, Trucks, Truck Trailers, Tunnels, Utilities, Utility Rooms, Voids i.e. Attics, False Ceilings, Veterinary Hospitals, Walls & Equipment Voids, Warehouses, Wholesale Stores, Wine Cellars, Wineries, Zoos and other similar areas.

### **OUTDOOR USE AREAS**

**For use in and around, but not limited to, such areas as:**

Alleys, Amphitheaters, Amusement Parks, Back Yards, Balconies, Baseball Fields, Beaches, Bleachers, Bridges, Carwashes, Campgrounds, Circus', Construction Sites,

Corrals, Courtyards, Curbs, Drive-In Restaurants, Drive-In Theaters, Dumpsters, Fair Grounds, Feedlots, Fields, Flower Beds, Forests, Front Yards, Game Fields, Garbage Dumps, Gardens, Gazebos, Golf Courses, Grandstands, Junk Yards, Hedges, Kennels, Landscapes, Lath Houses, Levees, Manure Piles, Marinas, Orchards, Parks, Parking Lots, Patios, Plantscapes, Playgrounds, Recreational Areas, Rest Areas, Roadsides, Roof-Tops, Sanitary Sewers (Manholes), Shrubbery, Side Yards, Side Walks, Stadiums, Swine Yards, Tennis Courts, Truck Stops, Underbrush, Underpasses, Vegetable Gardens, Weigh Stations, Wild Animal Parks, Wood Piles, Zoos and other similar areas.

### **INDOOR USE, UNDILUTED**

The use of this product in food processing or food handling establishments such as, but not limited to, Bakeries, Beverage Plants, Canneries, Food Processing Plants, Hospitals, Hotels, Industrial Installations, Meat Packing Plants, Restaurants, Schools, Supermarkets, Warehouses and other food handling and food processing establishments listed previously, should be confined to time periods when the plants or facilities are not in operation. Only contact applications may be made when food processing plant is in operation. Contact application is not allowed in Federally Inspected Meat and Poultry Plants when the plant is in operation. Undiluted use of this product in Federally Inspected Meat and Poultry Plants is not allowed. Before use, dilute this product 1 part concentrate with 2-9 parts of a suitable diluent. Processed foods should be removed or covered during treatment. All food processing surfaces should be covered during treatment or thoroughly cleaned before reusing.

**SPACE AND CONTACT SPRAY APPLICATION:** Close doors and windows and shut off ventilating systems. Use a mechanical aerosol generator or a fogger adjusted to deliver aerosol droplets. Direct the spray first into all crack and crevices, behind all equipment, cupboards, obstructions or dark harborage areas to provide maximum penetration and impingement on the insects. Then treat as a space spray, directing the spray toward the ceiling and upper corners of the area and behind any obstructions, apply at a rate of 1 ounce per 1,000 cubic feet of space. Facilities and equipment in federally inspected meat and poultry plants must be washed with an effective cleaning compound and rinsed with potable water after spraying. Vacate treated area and ventilate before reoccupying. Repeat treatment as necessary.

**NOTICE:** If there is a need to treat such areas as conduits, motor housings, junction and switch boxes or other electrical equipment, de-energize electrical equipment prior to application. After application, allow time for oil to evaporate before starting motors or placing switches in the "ON" position.

**BEDBUGS:** Apply to top, ends, sides, and bottom of mattresses, spraying thoroughly all tufts, seams, and folds. Spray springs and frames, directing the liquid into all cracks and lock joints. Treat walls, baseboards, moldings, floors, closets, carpets, furniture, and picture frames, with particular attention to protected bedbug hiding and breeding places.

**CARPET BEETLES:** Apply to floor areas and baseboards. Spray directly into cracks, crevices and under carpets where insects may be found. Treat both the underside and top side of infested carpets. Spray inside of trunks, closets and infested areas of shelving.

**DRIED FRUIT PRODUCTS:** In storage or being processed for control of, but not limited to, Almond Moths, Ants, Cereal Beetles, Chocolate Moths, Cigarette Beetles, Cockroaches, Confuse 1 Flour Beetles, Crickets, Earwigs, Flies, Fruit Flies, Fungus Gnats, Indian Meal Moths, Mediterranean Flour Moths, Red Flour Beetles, Sawtoothed Grain

Beetles, Silverfish, Dried Fruit Beetles, Warehouse Beetles, Khapra Beetles and other similar insects. Do not apply to fruit directly. Apply as a fine mist or fog in the air above and around the trays, bins and shelves at the rate of 1 ounce per 1,000 cubic feet of space. Repeat application at this dosage as required.

**ON FRESH FRUITS:** Mangoes, Guava, Pineapples, Oranges, Figs: Apply as a space spray. Direct the spray toward the ceiling and upper corners over and around storage areas.

**TREATMENT OF STORED FOOD AREAS:** Foods in multi-walled bags or in cloth bags stored in such areas as, but not limited to, warehouses, storage rooms, flour mills, grain elevators and granaries and all other stored food areas listed previously for the control of accessible adult stages of, but not limited to, Almond Moths, Angoumois Grain Moths, Ants, Cadelles, Cereal Beetles, Cheese Mites, Cheese Skippers, Chocolate Moths, Cigarette Beetles, Cockroaches, Confused Flour Beetles, Crickets, Dark Mealworms, Drugstore Beetles, Earwigs, Firebrats, Flies, Fruit Flies, Fungus Gnats, Grain Mites, Granary Weevils, Hide Beetles, Indian Meal Moths, Mediterranean Flour Moths, Mosquitoes, Red Flour Beetles, Rice Weevils, Sawtoothed Grain Beetles, Silverfish, Small Flying Moths, Spiders, Spider Beetles, Yellow Mealworms, Dried Fruit Beetles, Warehouse Beetles, Rusty Grain Beetles, Lesser Grain Beetles, Coffee Bean Weevils, Khapra Beetles and other similar insects.

Infested stored product should be destroyed, fumigated or treated by other effective methods using an approved product intended for this purpose. As noted above, disperse first by directing spray into cracks and crevices, corners, pallets and around stacks of packaged goods hitting as many insects as possible and then apply as a space spray at dosage of 1-2.5 ounces per 1,000 cubic feet of room space. Repeat application as necessary for insect control. Do not remain in treated area and ventilate before re-entry.

**ON PEANUTS, NUTS, BEANS (INCLUDING COCOA), SEEDS AND COPRA IN BULK OR BAGS**

For the control of, but not limited to, accessible stages of the following insects:

Almond Moths, Angoumois Grain Moths, Ants, Cadelles, Cereal Beetles, Cheese Mites, Cheese Skippers, Chocolate Moths, Cigarette Beetles, Cockroaches, Confused Flour Beetles, Crickets, Dark Mealworms, Drugstore Beetles, Earwigs, Firebrats, Flies, Fruit Flies, Fungus Gnats, Grain Mites, Granary Weevils, Hide Beetles, Indian Meal Moths, Mediterranean Flour Moths, Mosquitoes, Red Flour Beetles, Rice Weevils, Sawtoothed Grain Beetles, Silverfish, Small Flying Moths, Spiders, Spider Beetles, Yellow Mealworms, Dried Fruit Beetles, Warehouse Beetles, Rusty Grain Beetles, Lesser Grain Beetles, Coffee Bean Weevils, Khapra Beetles and other similar insects.

Apply to the surface of stored or bagged products. Also spray walls, floors and other surfaces of bins, storage and handling areas thoroughly, being especially careful to treat cracks, crevices and similar hiding places. Then apply as a space spray by directing the spray toward the ceiling and upper corners of the area and behind any obstructions.

**INDOOR USE, DILUTED**

**SPACE SPRAY APPLICATION:**

For use in mechanical fogging or spraying equipment to control accessible stages of, but not limited to, Almond Moths, Angoumois Grain Moths, Ants, Cadelles, Carpet Beetles, Cereal Beetles, Cheese Mites, Cheese Skippers, Chocolate Moths, Cigarette Beetles, Clothes Moths, Flies, Fruit Flies, Clover Mites, Cockroaches, Confused Flour

Beetles, Crickets, Dark Mealworms, Drugstore Beetles, Earwigs, Firebrats, Fleas, Flies, Fruit Flies, Gnats, Granary Weevils, Hide Beetles, Indian Meal Moths, Mediterranean Flour Moths, Mosquitoes, Red Flour Beetles, Rice Weevils, Sawtoothed Grain Beetles, Silverfish, Small Flying Moths, Spiders, Spider Beetles, Dried Fruit Beetles, Warehouse Beetles, Rusty Grain Beetles, Lesser Grain Borers, Coffee Bean Weevils, Khapra Beetles and other similar insects.

Cover or remove exposed food and cover food handling surfaces in edible product areas of food handling establishments. Close room and shut off air conditioning or ventilating equipment. Mix 1 part concentrate with 1-9 parts of a suitable diluent. In Federally Inspected Meat and Poultry Plants, dilute this product 1 part concentrate with 2-9 parts of a suitable diluent. Apply at the rate of 1-2 fluid ounces per 1,000 cubic feet, filling the room with mist. Vacate treated area and ventilate before reoccupying. Repeat treatment if reinfestation occurs.

#### **ANIMAL QUARTER USE:**

For use in and around, but not limited to such animal quarter areas as Barns, Dairy & Livestock Barns, Goat Houses, Cattle Barns, Animal Control Centers, Horse Stables & Barns, Kennels, Holding Pens, Research Animal Quarters, Animal Shelters, Circus Tents, Dog Houses, Horse Trailers, Livestock Hauling Equipment, Veterinary Hospitals, Research animal Quarters, Corrals, Fair Grounds, Feedlots, Pounds, Wild Animal Parks, Hog Houses, Poultry Houses, Swine Houses, Livestock Confinement Areas and Zoos to control accessible stages of, but not limited to, Brown Dog Ticks, Clover Mites, Cockroaches, Crickets, Deer Flies, Earwigs, Face Flies, Firebrats, Fleas, Flies, Fruit Flies, Fungus Gnats, Horn Flies, Hornets, Mosquitoes, Scorpions, Silverfish, Small Flying Moths, Spiders, Stable Flies, Ticks, Wasps, Yellow Jackets, Fannia Flies, Darkling Beetles and other similar insects.

As a space spray in conventional ULV cold aerosol generator, thermal fogger, or fogger adjusted to deliver aerosol size droplets. Whenever possible, space spray application should be made in the late evening when insects are at rest. Apply at the rate of 0.25-1.0 ounces per 1,000 cubic feet of space above the animals. This concentrate may be diluted with a suitable diluent at the rate of 1 part concentrate to 1-9 parts diluent and applied at the rate of 1-2 ounces per 1,000 cubic feet of space above the animals. Direct spray toward the upper portions of the enclosure above the animals, filling the room with mist or fog. Vacate treated area and ventilate before re-occupying. Repeat treatment if reinfestation occurs.

#### **IN MUSHROOM PRODUCTION AND PROCESSING:**

For use in Mushroom Production and Processing to control Mushroom Flies and Fungus Gnats:

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Apply in growing houses at 0.125-1.0 ounce per 1,000 cubic feet of space. Fogger should be operated 8 to 10 feet away from the beds and directed slightly upward over them. Circulating fans should be left in operation, but for best results, refrigerators should be turned off in processing plants. This product may be diluted with a suitable diluent at the rate of 1 part concentrate to 1-9 parts diluent and applied at the rate of 1 ounce per 1000 cubic feet of space.

#### **SURFACE SPRAY APPLICATION:**

To control accessible stages of, but not limited to, Cockroaches, Silverfish, Beetles, Crickets and other similar insects listed previously:

Spray thoroughly into all cracks, molding and crevices where insects appear. Particularly watch areas where moisture collects such as drains, sinks, and water pipes. Repeat as frequently as necessary.



**ANTS:** Spray directly into nests, along runways, and directly on all ants observed. Repeat as frequently as necessary.

**FLEAS:** Spray floors, floor coverings, sidewalls several feet up from floor, around base boards, window and door frames and wall and floor cracks. Spray all animal quarters. **DO NOT SPRAY ON ANIMALS.** Old bedding should be removed and replaced with clean, fresh bedding after treatment. Also treat dogs and cats with a registered flea and tick control product before allowing them to re-enter the treated area.

**ALMOND MOTHS, ANGOUMOIS GRAIN MOTHS, ANTS, CADELLES, CEREAL BEETLES, CHOCOLATE MOTHS, CIGARETTE BEETLES, COCKROACHES, CONFUSED FLOUR BEETLES, CRICKETS, DARK MEALWORMS, DRUGSTORE BEETLES, EARWIGS, FRUIT FLIES, GRANARY WEEVILS, HIDE BEETLES, INDIAN MEAL MOTHS, MEDITERRANEAN FLOUR MOTHS, RED FLOUR BEETLES, RICE WEEVILS, SAWTOOTHED GRAIN BEETLES, SCORPIONS, SILVERFISH, SPIDERS, SPIDER BEETLES, YELLOW MEALWORMS, DRIED FRUIT BEETLES, WAREHOUSE BEETLES, RUSTY GRAIN BEETLES, LESSER GRAIN BORERS, COFFEE BEAN WEEVILS, KHAPRA BEETLES, DARKLING BEETLES, and other similar insects.** Spray walls, floors and other surfaces of bins and storage and handling areas thoroughly, being especially careful to treat cracks, crevices and similar hiding places. Treat unloading, handling and processing areas and inside conveying, processing and handling equipment. Spray thoroughly around the base of heavy machinery and equipment. Spray insects directly when possible. This concentrate may be diluted with a suitable diluent at the rate of 1 part concentrate to 1-9 parts diluent. In Federally Inspected Meat and Poultry Plants, dilute this product 1 part concentrate with 2-9 parts of a suitable diluent. Apply at the rate of 1 ounce per 1,000 cubic feet of space.

**FOR IN-TRANSIT PROTECTION:**

To control accessible stages of, but not limited to, all insects listed previously in and around, but not limited to, such areas as, Truck Beds, Boxcars, Livestock Hauling Equipment, Ships, Ship Holds and other similar areas listed previously:

Clean and spray before loading. Thoroughly treat walls and floors and spray each layer of cartons or containers lightly as stacked. This concentrate may be diluted with a suitable diluent at the rate of 1 part concentrate to 1-9 parts diluent and applied at the rate of 1 ounce per 1,000 cubic feet of space.

**TREATMENT OF STORED GRAIN:**

To control accessible stages of, but not limited to, Cereal Beetles, Confused Flour Beetles, Dark Mealworms, Drugstore Beetles, Grain Mites, Granary Weevils, Indian Meal Moths, Mediterranean Flour Moths, Red Flour Beetles, Rice Weevils, Sawtoothed Grain Beetles, Silverfish, Small Flying Moths, Warehouse Beetles, Rusty Grain Beetles, Lesser Grain Borers, Coffee Bean Weevils, Khapra Beetles and other similar insects.

Apply to the surface of binned grain at a rate of 1 gallon per 1,000 cubic feet. Apply at monthly intervals with the first appearance of moths and continue until early fall. In severe infestations, break up webbing with a rake before spraying and make a second application in two weeks.

**TREATMENT OF FLYING INSECTS' RESTING PLACES:**

To control accessible stages of, but not limited to Chocolate Moths, Cigarette Beetles, Clothes Moths, Crickets, Deer Flies, Face Flies, Gnats, Horn Flies, Hornets, Mosquitoes, Stable Flies, Wasps, Yellow Jackets, Blood Sucking Lice and other similar flying insects listed previously.

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Treat walls, ceilings, moldings, screens, door frames, window frames, beams, light cords, and similar resting places. This concentrate may be diluted with a suitable diluent at the rate of 1 part concentrate to 1-9 parts diluent and applied at the rate of 1 ounce per 1,000 cubic feet of space.

### **OUTDOOR APPLICATION, UNDILUTED**

To control accessible stages of, but not limited to, Deer Flies Gnats, Horn Flies, Hornets, Mosquitoes, Stable Flies, Yellow Jackets, Fannia Flies and other similar insects in and around, but not limited to such areas as:

Alleys, Amphitheatres, Amusement Parks, Back Yards, Balconies, Baseball Fields, Beaches, Bleachers, Bridges, Carwashes, Campgrounds, Circus, Construction Sites, Corrals, Courtyards, Curbs, Drive-In Restaurants, Drive-In Theaters, Dumpsters, Fair Grounds, Feedlots, Fields, Flower Beds, Forests, Front Yards, Game Fields, Garbage Dumps, Gardens, Gazebos, Golf Courses, Grandstands, Junk Yards, Hedges, Kennels, Landscapes, Lath Houses, Levies, Manure Piles, Marinas, Orchards, Parks, Parking Lots, Patios, Plantscapes, Playgrounds, Recreational Areas, Rest Areas, Roadsides, Roof-Tops Sanitary Sewers (Manholes), Shrubbery, Side Yards, Sidewalks, Stadiums, Swine Yards, Tennis Courts, Truck Stops, Underbrush, Underpasses, Vegetable Gardens, Weigh Stations, Wild Animal Parks, Wood Piles, Zoos and other similar outdoor areas.

If possible, space spray application should be made in the late evening when insects are at rest. Apply when there is a light breeze of approximately 5 miles per hour, at a rate of 1-2 ounces per 1000 cubic feet. Spray from the windward side so the fog or mist will be carried across the area to be treated. Treat shrubbery and vegetation where mosquitoes may rest, particularly stagnant pools, marshy areas, shore lines and ponds, contacting as many insects as possible with the fog or mist. Application of this product to any body of fresh water is prohibited. In the treatment of corrals, feedlots, swine lots, zoos, etc., cover any exposed water, drinking fountains and animal feed before application. Fill the area with mist or fog and direct the spray into tall grass, shrubbery and around lawn where the above pests may hover or rest. In zoos, do not expose reptiles to this product. Repeat treatment as required. When using truck mounted equipment, disperse at the following rates:

| Truck Speed<br>(miles per hour) | Flow Rate<br>(fluid ounces per minute) |
|---------------------------------|--|
| 5                               | 12-15                                  |
| 10                              | 24-30                                  |

Delivery rates and traveling speed can be varied slightly as long as the basic objective of 0.002 to 0.0025 pounds actual pyrethrins per acre is maintained. Use a swath width of 300 feet for acreage calculations.

### **TO CONTROL MOSQUITO LARVAE:**

Mix 48 ounces of concentrate with a suitable diluent to equal 50 gallons of diluted spray. Apply 20 to 25 gallons per acre. Apply as a coarse wetting spray to the border or on the shallow water of wetlands, swamps and marshes known to be infested with mosquito larvae.

### **FOR USE ON ANIMALS:**

To protect against, but not limited to, Brown Dog Ticks, Deer Flies, Face Flies, Gnats, Horn Flies, Fannia Flies, Blood Sucking Lice and other similar insects:

Mix 1 part concentrate with 9 parts of a suitable diluent. Apply light mist sufficient to wet

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the tips of the hair on beef and dairy cattle, horses and dogs. Apply at two ounces per adult beef cattle, dairy cattle and horses to sufficiently wet the hair but not soak the hide. Repeat this application once or twice daily or as needed to give continued protection.

**ON GROWING CROPS:**

May be used on edible crops (outdoors or in greenhouses) up to and including day of harvest. Especially desirable as a clean up or preharvest spray where other materials may not be used due to residue restrictions. When applied according to accepted use cautions and directions, this concentrate may be used in combination with other insecticides where resistant insects are a problem or as an "exciter" where insects are flushed out of hiding and into contact with spray residues.

On the following crops, to control the insects named, use 12 to 36 ounces per acre in sufficient diluent to allow thorough coverage (usually 100 gallons). Coverage of upper and lower leaf surfaces is essential for good control.

**ASPARAGUS:** Asparagus Beetle.

**BEANS:** Aphids, Leafhoppers, White Fly, Mexican Bean Beetle, 12- Spotted Cucumber Beetle.

**BROCCOLI, CABBAGE, BRUSSELS SPROUTS, CAULIFLOWER:** Aphids, Cabbage Looper, Cross-Striped Cabbageworm, Diamondback Moth Larvae, Flea Beetle, Harlequin Bug, Imported Cabbageworm, Stink Bug.

**CELERY:** Green Peach Aphid, Cabbage Looper, Leaf Tier.

**CRANBERRIES:** Fireworms, Leafhopper.

**EGGPLANTS:** Blister Beetle, Colorado Potato Beetle, Flea Beetle, Green Peach Aphid.

**LETTUCE:** Moth Larvae, Diamondback Moth Larvae, Imported Cabbageworm.

**MUSTARD GREEN, KALE, COLLARDS, TURNIPS:** Imported Cabbageworm, Diamondback Caterpillar, Aphids, Cabbage Looper.

**PEPPERS:** Green Peach Aphid.

**POTATOES:** Aphids, Colorado Potato Beetle, Flea Beetle, Leafhopper.

**RADISH:** Aphids, Flea Beetle.

**SPINACH:** Aphids, Cabbage Looper, Webworm.

**TOMATOES:** Green Peach Aphid, Colorado Potato Beetle, Stink Bug, Flea Beetle.

**ORNAMENTALS:** (African Violets, Asters, Azaleas, Begonias, Camellias, Carnations, Chrysanthemums, Dahlias, Dogwood, Geraniums, Gladioli, Marigolds, Roses, Rubber Plants, Wandering Jew, etc.) Aphids, Flea Beetles, Leafhoppers.

**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 materials.

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