

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

DEC 2 1991

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Mr. Lewis Mantels  
Hysan Corporation  
4309 South Morgan Street  
Chicago, IL 60609-3399

Dear Mr. Mantels:

Subject: Amendment - Confidential Statement of Formula and  
Revised Labeling  
Bio-Sect Insect Killer  
EPA Registration No. 334-548  
Your Application Dated June 7, 1991 and July 11, 1991

The amendment 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 prior to release for shipment of product bearing the amended labeling.

1. Revise the paragraph beginning with "Do not use in edible product areas of food processing plant, restaurants...etc." to "Do not use in food/feed areas of food/feed handling establishments, restaurants or other areas where food/feed is commercially prepared or processed. Do not use in serving areas while food is exposed or facility is in operation. Serving areas are areas where prepared foods are served such as dining rooms but excluding areas where foods may be prepared or held.

In the home, cover all food handling surfaces and cover or remove all food and cooking utensils, or wash thoroughly after treatment."

2. Add the following precautions to the Directions for Use:
  - a. Do not apply to classrooms when is use.
  - b. Do not apply to institutions (including libraries, sports facilities, etc) in the immediate area when occupants are present.

CONCURRENCES

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SURNAME	GA							
DATE	11/26/91							

3. Under Indoor Use instructions, make the following changes:
- a. For Control Flying, Crawling and Grain Insects, add the statement "Spray directly on insects where possible."
  - b. For Grain Insect, add the statements "Any utensils that are contacted with spray should be washed before using. Repeat as necessary."
  - c. For Wasps, Hornets, etc., continue the second sentence with the phrase "... contacting as many insects as possible. Repeat as necessary."
4. Under Contact Application Use, add the following precautions under the section on use on dogs and cats:

Do not apply to puppies and/or kittens under 3 months old.

Do not apply this product to sick, old or debilitated animals.

Submit five copies of your final printed labeling before you release the product for shipment. A stamped copy of the labeling is enclosed for your records.

With respect to the Confidential Statement of Formula, verify the lower limit for the fruity floral blend perfume is 0.001%. Should the lower limit be 0.1%? Please verify.

Sincerely yours,

George T. LaRocca  
Product Manager 13  
Insecticide-Rodenticide Branch  
Registration Division (H7505C)

Enclosure

# BIO-SECT INSECT KILLER

**A COMBINATION OF INSECTICIDES  
OFFERING QUICK KNOCKDOWN  
AND RESIDUAL KILL  
OF CRAWLING INSECTS  
FOR UP TO 4 WEEKS**

**KILLS A BROAD RANGE OF  
FLYING AND CRAWLING INSECT PESTS,  
INCLUDING GRAIN INSECTS AND  
INDOOR AND OUTDOOR PLANT INSECTS**

**FOR USE IN INDOOR AND OUTDOOR  
NON-FOOD AREAS IN/ON INDUSTRIAL, INSTITUTIONAL,  
COMMERCIAL, MEDICAL, AND RESIDENTIAL  
FACILITIES, EQUIPMENT, AND VEHICLES.**

ACTIVE INGREDIENTS	
Permethrin	0.15%
Pyrethrin	0.25%
INERT INGREDIENTS	99.60%
TOTAL	100.00%

For use in non-food areas indoors and on outside surfaces of industrial, institutional, commercial, medical, and residential premises, buildings, equipment, and vehicles, including premises of hotels, motels, homes, preschools, nurseries, day camps, greenhouses, lathouses, seed houses, food handling establishments (not for use in USDA Meat and Poultry Plants), packaging and processing plants, office buildings, storage buildings, dairies, milk storage rooms, egg processing plants, supermarkets, restaurants, bottling plants, canneries, flour and feed mills, bakeries, and hospitals (non-patient areas). For use in campers, mobile homes, buses, automobiles, trucks, and boxcars. Also for use in dog kennels and horse stables.

Can also be used in non-food areas of food handling establishments such as garbage rooms, lavatories, floor drains (to sewers), entries, vestibules and hallways, of locker rooms, machine rooms, basements, boiler rooms, garages, utility rooms, mop closets, and storage rooms (after cleaning or mopping).

**KEEP OUT OF REACH OF CHILDREN.  
CAUTION**  
SEE ADDITIONAL PRECAUTIONARY  
AND PRACTICAL TREATMENT  
STATEMENTS ON BACK PANEL.

EPA Reg. No. 334-548 EPA Est. No. 334-IL-2  
MANUFACTURED BY: Chicago, IL 60609  
Blue Island, IL 60406  
Cartersville, GA 30120  
Ward, TX 76712  
**hysan**  
CORPORATION

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NOTE: Text below is set in the minimum type size of 6 points, with an 11 pica column width.

## FEATURES, CLAIMS, AND USES

A broad-spectrum, multi-purpose, dual-pyrethroid insecticide that kills flying and crawling insect pests both by direct contact and by residual activity on treated surfaces.

**KILLS:** Angoumois Grain Moths, Ants, Aphids, Armyworms, Bees, Bore/lor Bugs, Brown Dog Ticks, Cabbage Worms, Carpet Beetles, Centipedes, Chocolate Moths, Cigarette Beetles, Cicadas, Clothes Moths, Clover Mites, Cluster Flies, Cockroaches (Waterbugs), Confused Flour Beetles, Earwigs, Fall Caneworms, Fleas, Fruit Flies, Fungus Gnats, Gnats, Grain Mites, Grain Weevils, Grasshoppers, Hornets, Houseflies, Inchworms, Indian Meal Moths, Japanese Beetles, Leaf Rollers, Leaf Miners, Lesser Grain Borers, Lone Star Ticks, Mealybugs, Mediterranean Flour Moths, Millipedes, Mosquitoes, Flying Moths, Red Flour Beetles, Saw-toothed Grain Beetles, Scorpions, Shiny Spider Beetles, Silverfish (Firebrats), Sow Bugs (Pill Bugs), Spider Beetles, Spider Mites, Spiders, Tent Caterpillars, Yellow Jackets, Thrips, Wasps, Whiteflies, and Yellow Jackets.

For use in non-food areas indoors and on outside surfaces of industrial, institutional, commercial, medical, and residential premises, buildings, equipment, and vehicles, including premises of hotels, motels, homes, preschools, nurseries, day camps, greenhouses, lathouses, seed houses, food handling establishments (not for use in USDA Meat and Poultry Plants), packaging and processing plants, office buildings, storage buildings, dairies, milk storage rooms, egg processing plants, supermarkets, restaurants, bottling plants, canneries, flour and feed mills, bakeries, and hospitals (non-patient areas). For use in campers, mobile homes, buses, automobiles, trucks, and boxcars. Also for use in dog kennels and horse stables.

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## PRECAUTIONARY STATEMENTS

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**  
**CAUTION:** Avoid contact with eyes, skin, or clothing. Harmful if swallowed.

**STATEMENTS OF PRACTICAL TREATMENT (FIRST AID)**  
**GENERAL:** QUICKLY follow directions below AND call a Poison Control Center for physician or emergency recommendations. Always get quick medical attention for ALL effects which continue or show up later.

**IF IN EYES:** Flush eyes with plenty of water while removing any contact lenses, then flush skin, nose and mouth as thoroughly with water.

**IF ON SKIN, CLOTHING, ETC:** Remove any contaminated clothing, shoes, jewelry, etc. Clean them thoroughly before wearing, and wash affected skin with soap and water.

**IF INHALED:** If inhaled, IMMEDIATELY get to a fresh air and medical attention. Keep them breathing, apply artificial respiration if necessary.

**IF SWALLOWED:** Call a physician or Poison Control Center immediately. For conscious non-convulsing victims, rinse mouth with water, spit out rinsed water, drink a glassful of warm water, and induce vomiting by rubbing back of throat with a finger.

**ENVIRONMENTAL HAZARDS**  
This product is toxic to fish and other aquatic organisms. Do not contaminate water by applying directly during use, or when disposing of any product waste.

**PHYSICAL/CHEMICAL HAZARDS**  
Contents under pressure. Do not use or store near heat or open flames. Do not puncture or incise plastic container. Exposure to temperatures above 130°F (54°C) may cause bursting.

## DIRECTIONS FOR USE

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

**GENERAL:** Do not spray on or toward people. Shake container thoroughly before each use, then remove protective cap. Aim spray opening toward target and push firmly on spray button, spray directly on insects whenever possible. Because of possible shock hazard, do not apply this product in conduits, motor housings, junction and switch boxes, or other electrical equipment. Do not use on surfaces that can be harmed or stained by water. Repeat applications as necessary to maintain effectiveness, or if reinfestation occurs.

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

Do not treat stables if the horses will be used for food. Do not use in edible product areas of food processing plants, restaurants, or other areas where food is commercially prepared or processed. Do not use in serving areas while food is exposed. In the home, remove or cover all food in the treatment area. Cover or remove all food-contact surfaces (on counters, processing equipment, utensils, etc.). After treatment, wash all food-contact surfaces with soap or detergent and rinse with potable (drinking) water before use.

### INDOOR USES

**FOR CONTACT AND RESIDUAL KILL AND CONTROL OF FLYING, CRAWLING, AND GRAIN INSECTS** (such as Angoumois Grain Moths, Ants, Bore/lor Bugs, Carpet Beetles, Centipedes, Chocolate Moths, Cigarette Beetles, Clothes Moths, Clover Mites, Cluster Flies, Cockroaches (Waterbugs), Confused Flour Beetles, Crickets, Drug Store Beetles, Earwigs, Fruit Flies, Gnats, Grain Weevils, Grasshoppers, Houseflies, Indian Meal Moths, Lesser Grain Borers, Mediterranean Flour Moths, Millipedes, Mosquitoes, Flying Moths, Saw-toothed Grain Beetles, Scorpions, Silverfish (Firebrats), Sow Bugs (Pill Bugs), Spider Beetles, and Spiders). Spray thoroughly into hiding places such as holes/cracks/crevices, moist areas, openings around pipes and sinks, under refrigerators, behind baseboards, and in storage areas. For Spiders, also use repeated applications to their webs and other hiding places. For Ants, also spray their hills, nests, trails, and possible points of entry into buildings.

**FOR KILL AND RESIDUAL CONTROL OF GRAIN INSECTS** (such as Angoumois Grain Moths, Carpet Beetles, Chocolate Moths, Cigarette Beetles, Confused Flour Beetles, Drug Store Beetles, Grain Mites, Grain Weevils, Indian Meal Moths, Lesser Grain Borers, Mediterranean Flour Moths, Red Flour Beetles, Saw-toothed Grain Beetles, Shiny Spider Beetles, and Spider Beetles). Find and destroy all infested products including grain, cereal, and flour. Spray into holes/cracks/crevices where insects may be hiding. Shelves and drawers should be cleaned and thoroughly sprayed, then covered with shelf paper after they are dry.

**TO KILL BEES, HORNETS, WASPS, AND YELLOW JACKETS:** Application should be made in the late evening when insects are at rest. Spray liberally into hiding and breeding places, especially under attic rafters.

**TO KILL FLYING INSECTS** (including Cluster Flies, Fruit Flies, Gnats, Houseflies, Mosquitoes, and flying Moths): Close all doors, windows, and other openings around perimeter of area to be treated. Turn off all other sources of fresh air, such as fans, furnaces, air conditioners, etc.

Direct spray upward toward corners and center of area, using a slow, sweeping motion. There is no need to spray directly at flying insects; the mist in the air will kill them. Especially spray toward windows and other light sources which attract these insects. Fill the area with mist, then leave the treated area and keep it closed off for at least 15 minutes after spraying. Ventilate area thoroughly before reentry. Sweep up and destroy fallen insects.

**TO KILL AND CONTROL CARPET BEETLES AND CLOTHES MOTHS:** To treat carpets, hold container 14" to 16" (36 cm) from carpet. Apply spray evenly, covering the entire surface until it is slightly moist. Spray underside of carpet when possible. Avoid wetting or soaking. Allow carpet to dry thoroughly before use. To treat garments, blankets, carpets and other fabrics before storage, first dry clean or wash them, then spray evenly, covering the material on both sides until slightly moist. For best results, place treated materials in plastic bags after drying, and store in a dark place. Dry clean or wash items before use. Also spray floor and baseboards, closets, cracks/crevices, infested areas of shelving, and wherever these insects are seen or suspected.

## CONTACT APPLICATION USES

**TO KILL BROWN DOG TICKS, FLEAS, AND LONE STAR TICKS ON PREMISES** (not for residual control): Find and clean or destroy pet's old bedding. Spray areas where they frequent, including dog houses, stables, areas, baseboards, and other local areas on walls and floors (especially on rugs/carpets near walls or furniture, and in holes/cracks/crevices in animal quarters). Spray until surface is slightly moist. Spray the inside surface of dog houses. After treatment, put bedding in animal's quarters. Before animal's area, treat them with a flea and tick control product labeled for that use.

**TO KILL BROWN DOG TICKS, FLEAS, AND LONE STAR TICKS ON DOGS AND CATS** (not for residual control): Hold spray opening about 1 ft (30 cm) from body. Spray directly in eyes, nose, or mouth of animal, directly to animals along back, under forelegs, other areas (except scrotum and anus) until thoroughly moistened. Part the hair to insure good contact and coverage. Repeat treatment within 24 hours if necessary.

**TO KILL BEDBUGS** (not for residual control): thoroughly clean and air out mattresses and springs. Then spot treat only areas that could harbor bedbugs, concentrating on tufts, folds, and seams. Apply spot treatment to cracks/crevices around baseboard, floorboards, bed boards, and walls. Allow treated areas to dry thoroughly before use. For persistent infestations, consult a professional pest control service.

### OUTDOOR USES

**TO KILL AND CONTROL PESTS ON OUTSIDE SURFACES OF BUILDINGS** (including Ants, Clover Mites, Crickets, Millipedes, and Sow Bugs (Pill Bugs)): To prevent building infestation, spray the foundation height of 2 to 3 ft (0.6 to 1 m) where pests are active and entrance. Also, apply as a residual on outside surfaces of buildings, including porches, screens, window frames, eaves, patios, garages, dumps, and other areas where these pests congregated have been seen.

**TO REDUCE ANNOYANCE FROM FLYING INSECTS ON DOORS** (including Cluster Flies, Gnats, House Mosquitoes, and flying Moths): Spray outside surface of screens, doors, window frames, or wherever insects may enter buildings. Also, treat surfaces of light fixtures, on porches, in garages, and in closets where these insects alight or congregate.

**TO KILL ANTS, CRICKETS, EARWIGS, FLEAS, LONE STAR TICKS:** For treatment of localized infestations of these insects in outdoor areas where there are weeds or bushy non-crop areas, spray infested areas thoroughly. For Ants, thoroughly wet hills and mounds.

**TO KILL BEES, HORNETS, WASPS, AND YELLOW JACKETS:** Application should be made in the late evening when insects are at rest. Make sure wind toward you. Do not stand under nest. Spray liberally over nest and other hiding and breeding places, eaves, on attic rafters, around chimneys, on porches, bushes and trees, in openings in the ground, and other holes/cracks/crevices which may harbor the insects.

### PLANT PESTS

**GENERAL:** To kill insects listed below, apply as contact and residual spray to plants, covering all foliage. Avoid heavy wetting.

Use with CAUTION on Ferns, Fuchsias, and Palm with all plants listed below, especially Garden Chrysanthemums and Roses, there exist a wide susceptibility to injury. To ascertain phytoxicity, spray a few plants as directed above 24 hours, and check for possible injury.

Hysan Product Name: **BIO-S**  
Hysan Product #: **56804-20-**  
Disk Volume: **064 (L)**; Filename: **A5**  
Product File Name at EPA: **Bio-Sect**

HYSAN LARA APPROVAL- by \_\_\_\_\_  
 HYSAN R&D APPROVAL- by \_\_\_\_\_  
 HYSAN SALES APPROVAL- by \_\_\_\_\_

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