

73049-465

8/4/2009

10811



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505C)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg. Number:
73049-465

Date of Issuance:
AUG 4 2009

NOTICE OF PESTICIDE:
[X] Registration
[] Reregistration
(under FIFRA, as amended)

Term of Issuance:
Conditional

Name of Pesticide Product:
Pyrenone® 3-15 Space Spray

Name and Address of Registrant (include ZIP Code):

Valent BioSciences Corporation
870 Technology Way
Libertyville, IL 60048-6316

Note: Changes in labeling 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 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.

Registration is in no way to be construed as an endorsement or recommendation of this product by the 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 section 3(c)(7)(A) of FIFRA provided that you:

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

(continued on page #2)

Signature of Approving Official:

Date:

Refer to Page #5.

AUG 4 2009

Richard J. Gebken, Product Manager (10)
Insecticide Branch, Registration Division (7505P)

EPA Form 8570-6

2. Make the following change to the label:

- a. Change the product registration number to "EPA Reg. No. 73049-465"
- b. Make the following label revisions:

General Statement:

- 1. Delete all text throughout the label marked with "~~strikethrough~~."

Ingredient Statement section comment(s):

- 2. Revise this section to read:

ACTIVE INGREDIENTS:

Pyrethrins	3.0%
Piperonyl Butoxide, Technical*	15.0%
OTHER INGREDIENTS**:	<u>82.0%</u>
Total	100.0%

*Equivalent to 12.0% of (butylcarbityl)(6-propylpiperonyl) ether and 3.0% of related compounds.

**Contains petroleum distillates.

- 3. Your company name and address must be displayed prominently at the bottom of the front panel.

First Aid section comment(s): To facilitate inclusion of language from the acute toxicity review completed for this product:

- 4. Replace the 1st bullet found within the "If Swallowed:" subsection with: "Call a poison control center or doctor immediately for treatment advice."
- 5. Replace the 2nd sentence from the "HOT LINE NUMBER" subsection with the following: "For additional information on this product (including health concerns, medical emergencies or pesticide incidents), you may call 1-877-315-9819."¹

Precautionary Statements, Hazards to Humans and Domestic Animals section comment(s):

- 6. To facilitate inclusion of language from the acute toxicity review completed for this product, replace this section with:

"CAUTION

Contains Petroleum Distillate.

Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals."

- 7. Insert a new subsection heading that reads "User Safety Requirements:" immediately preceding the paragraph starting with "Follow manufacturer's instructions for ..."

¹ Please note that the "1-877-315-9819" must be substituted with a valid phone number that is available twenty-four (24) hours per day, seven (7) days per week for answering and responding to any medical emergencies or health concerns.

Directions for Use section comment(s):

8. To facilitate inclusion of language from the REDs for pyrethrins and piperonyl butoxide, replace the existing "GENERAL:" subsection with the following:

GENERAL PRECAUTIONS & USE RESTRICTIONS

- Apply this product only as specified on this label.
- Do not contaminate of food or feedstuffs.
- Do not use in aircraft cabins.
- Not for use in outdoor residential misting systems.
- Except when applying with a metered release device or after space spray applications, do not enter or allow others to enter until sprays have dispersed, and the treated area has been thoroughly ventilated. Do not remain in treated area. Exit area immediately and remain outside the treated area until sprays have dispersed.
- Except when applying with a metered release device, do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the treated area during application.
- Remove or cover exposed food and drinking water before application. Remove or cover dishes, utensils, food processing equipment and food preparation surfaces, or wash them before use.
- For indoor food handling/processing facilities: Do not make space spray applications when facility is in operation. During space spray applications, cover or remove exposed food. During space spray applications, cover food processing surfaces or clean after treatment with a suitable detergent, rinse with potable water before use. Do not apply more than 1 time per day.
- For metered release devices: Not for use in residential areas. Do not use in nurseries or rooms where infants, ill or aged persons are confined. Do not place metering device directly over or within 8 feet of exposed food, dishes, utensils, food processing equipment and food handling or preparation. Do not install within 3 feet of air vents. Carefully follow directions for the dispenser unit and when replacing cans or conducting maintenance.
- For indoor agricultural premises, commercial animal housing and equipment and direct application to non-domestic animals/livestock: Do not apply more than 1 time per day.
- When used in dairy barns or facilities: Close milk bulk tank lids to prevent contamination from spray and from dead or falling insects. Remove or cover milking utensils before application. Wash teats of animals before milking.
- For post-harvest applications to vegetables: Do not reapply within 7 days. Do not apply more than 10 times to sweet potatoes.
- For post-harvest applications to stored grain and seed: Do not reapply within 30 days.
- For food stored in bags: Direct application to food contact surfaces is prohibited.
- Remove pets, birds and cover fish aquariums before application.

9. In the 1st sentence of the paragraph immediately following the revised subsection added as part of Item #8 above, revise "automatic space spray system" to read "metered release device." In the last sentence, insert the word "listed" immediately preceding the word "crawling."

Directions for Use, INDOOR AREAS subsection comment(s):

10. Revise the beginning of this subsection to read "INDOOR AREAS for use in and around:"

11. In the paragraph starting with "INDOOR AREAS for use in and ...," delete the following use sites: "day-care centers," "hospices," "hospitals," "nursing homes" and "schools," since the RED for pyrethrins prohibits the use of metered release devices on these use sites.

Directions for Use, FOR THE CONTROL OF THE FOLLOWING INSECTS subsection comment(s):

12. Revise the subsection heading to read "FOR KILL OF THE FOLLOWING INSECTS:"

Directions for Use, AUTOMATIC SPACE SPRAY SYSTEMS subsection comment(s):

13. Revise the subsection heading to read "METERED RELEASE DEVICES:"

14. Revise the beginning of the 1st sentence to read "Use in metered release devices to kill exposed accessible..."

15. In the 3rd sentence, replace the word "the" with the word "a."

16. Revise the 4th sentence to read "Close off and vacate treated areas for at least 30 minutes and thoroughly ventilate before reoccupying."

Directions for Use, UL v AND SPACE SPRAY subsection comment(s):

17. In the 3rd sentence, replace the word "the" with the word "a."

18. Revise the 4th sentence to read "Close off and vacate treated areas for at least 30 minutes and thoroughly ventilate before reoccupying."

Directions for Use, CONTACT AND SPACE SPRAY subsection comment(s):

19. In the 6th sentence, replace the word "the" with the word "a."

20. Revise the 7th sentence to read "Close off and vacate treated areas for at least 30 minutes and thoroughly ventilate before reoccupying."

Directions for Use, Treatment of Food Stored in Bags subsection comment(s):

21. Revise the beginning of the 1st sentence to read "**Treatment of Food Stored in Bags:** For the kill of accessible adult stages of..."

Directions for Use, Application to Vegetables subsection comment(s):

22. Revise the beginning of the 2nd sentence to read "For the kill of accessible stages of..."

Directions for Use, INDOOR USE - DILUTED SPACE SPRAY subsection comment(s):

23. In the 1st sentence, replace the word "control" with the word "kill."

24. In the 4th sentence, replace the word "the" with the word "a."

25. Replace the 5th sentence with "Vacate treated areas for at least 15 minutes and thoroughly ventilate before reoccupying."

Directions for Use, Animal Quarters Use subsection comment(s):

26. Revise the subsection heading to read "**Non-Domestic/Livestock Animal Housing Use:**"

27. In the 1st sentence, replace the words "the control" with the word "kill."

28. In the 2nd sentence, replace the word "the" with the word "a."

29. Replace the 4th and 5th sentences with "Close off and vacate treated areas for at least 15 minutes and thoroughly ventilate before reoccupying."

Directions for Use, Zoos subsection comment(s):

30. Replace the 4th and 5th sentences with "Close off and vacate treated areas for at least 15 minutes and thoroughly ventilate before reoccupying."

Directions for Use, SURFACE SPRAY subsection comment(s):

31. Revise the beginning of the 1st sentence to read "**SURFACE SPRAY:** To kill accessible stages of: ..."

Directions for Use, Stored Grain and Seed subsection comment(s):

32. In the 1st sentence, replace the word "control" with the word "kill" and replace the word "the" with the word "a."

Directions for Use, CONTACT SPRAY subsection comment(s):

33. In the 3rd sentence, replace the word "the" with the word "a."

Directions for Use, Stored Food in Bags subsection comment(s):

34. In the 1st sentence, replace the word "control" with the word "kill."

35. In the 3rd sentence, replace the word "the" with the word "a."

Directions for Use, For Use on Animals subsection comment(s):

- 36. Revise the subsection heading to read "For Use on Non-Domestic/Livestock Animals:"
- 37. Revise the 2nd sentence to read "Apply as a light mist, sufficient to wet the tips of the hair, but not to the point of runoff or drip."
- 38. In the 3rd sentence, replace the word "control" with the word "kill."

Storage and Disposal Statement section comment(s):

- 39. The "Storage:" subsection should be revised to read "Pesticide Storage:"
- 40. Within the "Container Disposal:" subsection, replace the statement "Clean container promptly after emptying." with: "Triple rinse container (or equivalent) promptly after emptying."

Storage and Disposal Statement section (containers 5 gallons or under) comment(s):

- 41. Insert the following text immediately following the last sentence in this subsection: "Offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities."

Storage and Disposal Statement section (containers over 5 gallons) comment(s):

- 42. Insert the following text immediately following the last sentence in this subsection: "Offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities."

Conditional Data Gaps:

- 43. Within one (1) year from the date of approval of this label amendment, Valent BioSciences Corporation is obligated to submit a One Year Storage Stability (830.6317) study and a Corrosion Characteristics (830.6320) study on this product in support of this registration.²

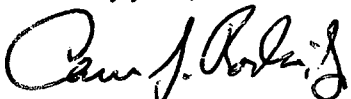
3. Submit two (2) copies of the revised final printed label for the record before the product is released for shipment.

Valent BioSciences Corporation should note that a notice of availability of EPA's reregistration eligibility decision (RED) document for products containing pyrethrins was published in the *Federal Register* on July 26, 2006 (Volume 71, Number 143, Pages 42387-42389). In addition, EPA's RED for products containing piperonyl butoxide was published in the *Federal Register* on July 26, 2006 (Volume 71, Number 143, Pages 42385-42386). As a result, additional data and/or labeling changes may be required for products containing pyrethrins and piperonyl butoxide.

If the above conditions are not complied with, the registration will be subject to cancellation in accordance with section 6(e) of FIFRA. Your release for shipment of the product bearing amended labeling constitutes accepting of these conditions.

A copy of your label stamped "Accepted with Comments" is enclosed for your records along with hard copies of the acute toxicity, product chemistry and efficacy reviews completed for this product. If you have any questions about this label review, please contact Mr. Carmen J. Rodia, Jr. at (703) 306-0327 or via e-mail at Rodia.Carmen@epa.gov.

Sincerely yours,

For


Richard J. Gebken
Product Manager (10)
Insecticide Branch
Registration Division (7505P)

- Enclosures:
- Copy of label stamped "Accepted with Comments"
 - Copy of acute toxicity review, dated July 15, 2009
 - Copy of product chemistry review, dated June 17, 2009
 - Copy of efficacy review, dated July 20, 2009

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² For more detailed information, please refer to page 2 of 4 of the product chemistry review for this product.

PRECAUTIONARY STATEMENTS
Hazards To Humans & Domestic Animals

CAUTION

Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco.

Personal Protective Equipment (PPE):

Mixers, loaders, applicators and other handlers must wear the following:

- Long-sleeve shirt
- Long pants
- Shoes and socks

In addition to the above PPE, applicators using hand held foggers in an enclosed area must wear a half-face, full-face or hood-style NIOSH-approved respirator with:

- A dust/mist filtering cartridge (MSHA/NIOSH approval number prefix TC-21C), or
- A canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or
- A cartridge or canister with any R,P or HE filter.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Discard clothing and other absorbent material that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

User Safety Recommendations:

- Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Environmental Hazards

This product is toxic to aquatic organisms, including fish and invertebrates. Do not contaminate water when disposing of equipment washwater or rinsate. See Directions for Use for additional precautions and requirements.

[for containers 5 gallons or greater]

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollution Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

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.

~~In Hospitals: Patients should be removed from room prior to treatment. Rooms should be ventilated for two hours after spraying. Do not return patients to room until after ventilation.~~

GENERAL:

- After surface applications, do not enter or allow others to enter until sprays have dried.
- Except when applying with an automatic space spray system, after space applications, do not remain in treated area. Exit area immediately and remain outside the treated area until aerosols, vapors and/or mists have dispersed. Do not enter or allow others to enter until vapors, mists and aerosols have dispersed and the treated area has been thoroughly ventilated.

- Except when applying with an automatic space spray system, do not apply this product in a way that will contact worker or other persons, either directly or through drift. Only protected handlers may be in the area during application.
- Remove or cover exposed food and drinking water before application. Remove or cover dishes, utensils, food processing equipment and food preparation surfaces or wash them before use.
- Do not use in aircraft cabins except in compliance with PR Notice 96-3.
- When used in dairy barns or facilities: Close milk bulk tank lids to prevent contamination from spray and from dead or falling insects. Remove or cover milking utensils before application. Wash teats of animals before milking.
- In the food/feed areas of food/feed handling establishments, do not make space spray applications when facility is in operation. During space spray applications, cover or remove food and cover food processing surfaces or clean after treatment with a suitable detergent and rinse with potable water before use.
- Not for use in automatic space spray systems in residential areas.
- Do not use automatic space spray systems in nurseries or rooms where infants, ill or aged persons are confined.
- Do not place metering device directly over or within 8 feet of exposed food, dishes, utensils, food processing equipment and food handling or preparation.
- Do not install automatic space spray systems within 3 feet of air vents.
- Carefully follow directions for the directions for the automatic space spray system dispenser unit when installing the dispenser and replacing cans or conducting maintenance.

This concentrate is designed for use undiluted in automatic space spray systems and mechanical sprayers which give particles of aerosol size. It can be diluted with refined kerosenes, which meet Food Additive Regulations as defined by CFR Title 21, 172.884, and applied in fogging equipment that give larger than aerosol particle size or applied as a contact spray to kill crawling insects shown on this label.

INDOOR AREAS ~~for use in and around, but not limited to [such as]~~

Animal areas & quarters, animal shelters, animal control centers, apartments, arcades, attics, auditoriums, bakeries, beverage plants, bars, basements, bathrooms, boats, bottling plants, breweries, brewery warehouses, buildings, buses, cabins, cabinets, cafeterias, campers, canneries, churches, cit missions, circus tents, closets, club houses, coffee warehouses, commercial buildings, communication centers, condominiums, concession stands, court houses, crawl spaces, crematoriums, ~~day care centers~~, delicatessens, department stores, diners, dog houses, drug stores, dumpsters, dwellings, egg processing plants, factories, flour mills, food processing plants, freight containers, fruit packing sheds, funeral parlors, garbage bins, garbage cans, garbage compactors, garbage trucks, gas stations, grain elevators, grain harvesting & handling equipment, garages, grain mills, granaries, grocery stores, homes, horse stables & barns, horse trailers, ~~hospices, hospitals~~, hotels, indoor eating establishments, industrial installations, institutional dining areas, institutions, jails, kennels, laboratories, laundromats, lavatories, libraries, liquor stores, locker rooms, marinas, mausoleums, meat packing plants, mess halls, mini-storages, mobile canteens, mobile homes, morgues, mortuaries, motels, movie theaters, museums, ~~nursing homes~~, office building, other public buildings, parking garages, peanut warehouses, pool halls, prisons, public storage, railroad cars, recreational vehicles, research animal quarters, restaurants, retail stores, rice mills, ~~schools, ships~~, ship holds, smoke shops, sports stadiums, stables, storage bins (areas), stored food in multi-walled paper or cloth bags, stores, supermarkets, taverns, textile mills & warehouses, theaters, tobacco factories, tobacco warehouses, tool sheds, trains, transportation equipment, trucks, truck trailers, tunnels, utilities, utility rooms, false ceilings vending machines, veterinary hospitals, wall & equipment voids, warehouses, washrooms, wholesale stores, wine cellars, wineries and zoos.

FOR THE CONTROL OF THE FOLLOWING INSECTS:

Almond Moths, Angoumois Grain Moths, Ants, Black Fly, Boxelder Bugs, Brown Dog Ticks, Cadelles, Carpet Beetles, Cereal Beetles, Cheese Mites, Cheese Skippers, Chocolate Moths, Cigarette Beetles, Clothes Moths, Clover Mites, Cockroaches, Coffee Bean Weevils, Confused Flour Beetles, Crickets, Dark Mealworms, Darkling Beetles, ~~Deer Flies~~, Dermestid Beetles, Dried Fruit Beetle, Drugstore Beetles, Earwigs, Face Fly, Firebrats, Flat Grain Beetles, Fleas, Flies, Fruit Flies, Gnats, Grain Mites, Granary Weevils, Horn Flies, Hornets, ~~House Flies~~, Indian Meal Moths, Khapra Beetles, Lesser Grain Borers, Lesser Housefly, Mediterranean Flour Moths, Merchant Grain Beetle, Midges, Miller Moths, Millipedes, Mosquitoes, Flying Moths, Palmetto Bugs, Pillbugs, Red Flour Beetles, Rice Flour Beetles, Rusty Grain Beetles, Saw-Toothed Grain Beetle, Silverfish, Skipper Fly, Spiders, Spider Beetles, Stable Flies, Sowbugs, Ticks, Ticks That May Carry and Transmit Lyme disease, Tobacco Moths, Warehouse Beetles, Wasps, Waterbugs, Yellow Jackets, Yellow Mealworms.

INDOOR USE – UNDILUTED

AUTOMATIC SPACE SPRAY SYSTEMS: Use in automatic space spray systems to kill exposed accessible stages of: *Flies (including Fruit Flies), Mosquitoes, Small Flying Moths, Fleas, Gnats, Wasps, Hornets, Clover Mites,*

Cheese Mites, Cheese Skippers, Boxelder Bugs, Earwigs, Ants and the following common stored product pests: *Granary Weevils, Rice Weevils, Confused Flour Beetles, Saw-Toothed Grain Beetles, Spider Beetles, Cigarette Beetles, Drugstore Beetles, Angoumois Grain Moths, Mediterranean Flour Moths, Indian Meal Moths, Tobacco Moths, Yellow Mealworms, Dark Mealworms, Grain Mites, Cadelles and Red Flour Beetles*. Close room and shut off all air conditioning or ventilating equipment. Set system to apply undiluted concentrate at ~~the~~ rate of ½ to 1.0 fluid ounce / 1000 cu. ft. of space. Leave room closed for at least 1/2 hour and ventilate thoroughly before re-entry.

ULV AND SPACE SPRAY: Use in aerosol generators to kill exposed accessible stages of: *Flies (including Fruit Flies), Mosquitoes, Small Flying Moths, Fleas, Gnats, Wasps, Hornets, Clover Mites, Cheese Mites, Cheese Skippers, Boxelder Bugs, Earwigs, Ants* and the following common stored product pests: *Granary Weevils, Rice Weevils, Confused Flour Beetles, Saw-Toothed Grain Beetles, Spider Beetles, Cigarette Beetles, Drugstore Beetles, Angoumois Grain Moths, Mediterranean Flour Moths, Indian Meal Moths, Tobacco Moths, Yellow Mealworms, Dark Mealworms, Grain Mites, Cadelles and Red Flour Beetles*. Close room and shut off all air conditioning or ventilating equipment. Set system to apply undiluted concentrate at ~~the~~ rate of ½ to 1.0 fluid ounce / 1000 cu. ft. of space. Leave room closed for at least 1/2 hour and ventilate thoroughly before re-entry. Do not apply more than 1 time per day.

CONTACT AND SPACE SPRAY: TO KILL *Cockroaches, Silverfish, Earwigs, Ants, Spiders*, use a mechanical aerosol generator or a fogger. First, apply as a spot & crack & crevice treatment at ½ gallon / 1000 sq. ft. of surface area. Direct the spray into all cracks and crevices, behind all equipment, cupboards, obstructions or dark harborage areas, walls, floors, underneath sinks, behind pipes and in all places that harbor insects to provide maximum penetration and impingement on the insects. Contact as many insects as possible. Then treat as a space spray. Apply at ~~the~~ rate of ½ to 1.0 fluid ounce / 1000 cu. ft. of space. Leave the room closed for at least 1/2 hour and ventilate thoroughly before re-entry. Do not apply more than 1 time per day.

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

Treatment of Food Stored in Bags: For ~~the control~~ of accessible adult stages of *Almond Moths, Angoumois Grain Moths, Ants, Cadelles, Cereal Beetles, Cheese Mites, Cheese Skippers, Chocolate Moths, Cigarette Beetles, Cockroaches, Confused Four 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, Saw-Toothed 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 Beetle* and other listed pests, apply as a space spray at ~~the~~ rate of ½ -1.0 ounce / 1000 cu. ft. of space. Fumigate or destroy infested stored products or treat by other effective methods using an approved product intended for this purpose. Direct application to food contact surfaces is prohibited.

Application to Vegetables (Potato, Tomato, Pea, Sweet Potato), Fruits (Apple, Blackberry, Blueberry, Boysenberry, Cherry, Crabapple, Currant, Dewberry, Fig, Gooseberry, Grape, Guava, Loganberry, Mango, Muskmelon, Orange, Peach, Pear, Pineapple, Plum, Raspberry), Nuts (Almonds, Walnuts) and other Commodities (Copra and Peanut): For the control of accessible stages of *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, Saw-Toothed 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 listed insects. Apply as a surface application at a rate of 6.0 ounces / 1000 sq. ft. Also spray walls, floors and other surfaces, storage and handling areas thoroughly, being especially careful to treat cracks, crevices and similar hiding places. Or apply as a space spray at the rate of ½ ounce / 1000 cu. ft. of space by directing the spray toward the ceiling and upper corners of the area and behind any obstructions. Do not reapply within 7 days. Do not apply more than 10 times to sweet potatoes. Do not apply both surface and space sprays within the same 7-day period.

VOID INJECTION - TO KILL *Cockroaches*: Using an appropriate ULV spraying device, inject the aerosol spray directly into cracks and crevices to fill wall, equipment and other small structural void areas. Leave room ventilation or air conditioning equipment on during application.

INDOOR USE - DILUTED

SPACE SPRAY: For use in mechanical fogging, thermal fogging or spraying equipment to ~~control~~ accessible stages of *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, Saw-Toothed 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 and Khapra Beetles*. Close room and shut off all air conditioning or ventilating equipment. Dilute concentrate with a white mineral oil conforming to Regulations at 21 CFR 121.2589(b) or an odorless light petroleum hydrocarbon conforming to 121.1182 at the rate of one part concentrate to two parts oil and mix well. Apply at ~~the~~ rate of ½ to 1.0 fluid ounce / 1000 cu. ft. of space, filling the room with mist. Vacate treated area and ventilate before re-entry. Do not apply more than 1 time per day.

Animal Quarters Use: For use in cattle barns, horse barns, poultry houses, swine houses & zoos for ~~the control of~~ *Flies, Mosquitoes, Small Flying Moths* and *Gnats*: Dilute 1 part concentrate with 29 parts oil (refined Kerosene or Deo-base Kerosene) and mix well. Apply at ~~the~~ rate of 2.0 fluid ounces / 1000 cu. ft. above the animals. Direct spray toward the upper portions of the enclosure filling the room with mist. Keep area closed off for at least 15 minutes. Vacate treated areas and ventilate before reoccupying.

Zoos: As a space spray diluted for use in conventional mechanical fogging equipment to kill *Flies, Gnats, Mosquitoes, Small Flying Moths*, dilute 1 part concentrate plus 29 parts oil (refined Kerosene) and mix well. Apply at a rate of 2 ounces per 1000 cu. ft. of space above the animals. Direct spray towards the upper portions of the enclosure filling the room with mist. Keep area closed for at least 15 minutes. Vacate treated area and ventilate before reoccupying.

SURFACE SPRAY: To ~~control~~ accessible stages of: *Ants, Drugstore Beetles, Earwigs, Cockroaches, Silverfish, Beetles, Boxelder Bugs, Clover Mites, Crickets* and other listed insects, dilute in a range of 1 part concentrate plus 4 parts suitable diluent to 1 part concentrate plus 29 parts suitable diluent, mix well and apply as a coarse wetting spray using approximately 1 gallon of spray mixture per 750 sq. ft. of surface. To ensure maximum control of listed crawling insects, spray thoroughly into all cracks, molding, crevices, walls, floors and other surfaces, around the base of heavy machinery and equipment, storage and handling areas. Particular attention should be paid to areas where moisture collects such as drains, sinks and water pipes, around the base of heavy machinery and equipment contacting as many insects as possible. *Ants:* Spray directly into nests, along trails and directly on all ants observed.

Stored Grain and Seed (Barley, Beans, Lima Beans, Birdseed, Buckwheat, Cocoa beans, Corn, Cottonseed, Flax, Grain sorghum, Oats, Field Peas, Rice, Rye, Wheat): To ~~control~~ *Indian Meal Moth* and *Angoumois Grain Moths* in stored grain, apply diluted spray to the surface of binned grain at ~~the~~ rate of 1 gallon per 1000 sq. ft. Do not reapply within 30 days. Apply with the first appearance of moths and continue until early fall. In the case of severe infestation, break up webbing with rake before spraying.

CONTACT SPRAY: Diluted for use with sprays that give large wetting spray particles to kill *Cockroaches* and accessible stages of granary insects: *Cadelles, Confused Flour Beetles, Grain Mites, Granary Weevils, Meal Moth Larvae and Adults, Red Flour Beetles, Rice Weevils and Saw-Toothed Grain Beetles*. Cover or remove exposed food and close room as described above. Dilute concentrate with oil at ~~the~~ rate of 1 part concentrate plus 29 parts of oil or 4.5 ounces per gallon and mix well. Spray outside walls of grain bins, flooring, around the base of milling machinery, walls and baseboards, areas behind cabinets, around pipes and other insect harborages using 1 gallon of spray per 1,000 sq. ft. of space. Force spray into all cracks and crevices.

Stored Food in Bags: in flour mills, grain elevators, granaries, storage rooms, warehouses for ~~control~~ of *Angoumois Grain Moths, Cadelles, Cheese Mites, Cheese Skippers, Cigarette Beetles, Confused Flour Beetles, Dark Mealworms, Grain Mites, Granary Weevils, Indian Meal Moths, Mediterranean Flour Moths, Red Flour Beetles, Rice Weevils, Saw-Toothed Grain Beetles, Yellow Mealworms*. Remove and destroy infested products. Dilute concentrate with oil at ~~the~~ rate of 1 part concentrate plus 29 parts oil or 4.5 ounces per gallon and mix well and treat as a space spray. Fumigate infested stored products or treat by other effective methods using an approved product intended for this purpose. Use a dosage of ½ fluid ounce per 1000 cu. ft. of space. Direct application to food contact surfaces is prohibited. This application will kill accessible, exposed stages of those stored product pests listed above. Sweep up and destroy fallen insects.

For Use On Animals: To protect beef and dairy cattle and horses from *Horn Flies, Houseflies, Mosquitoes* and *Gnats*, dilute 1 part of concentrate with 29 parts oil (deo-base Kerosene) and mix well. Apply a light mist, sufficient to wet the tips of the hair. To control *Stable Flies, Horse Flies* and *Deer Flies* on beef and dairy cattle and horses, apply

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2 ounces per adult animal sufficient to wet the hair but not to soak the hide. ~~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. Do not apply more than 1 time per day.~~

STORAGE AND DISPOSAL

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

Storage: Store product in original container in a cool, dry, area away from heat or open flame.

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: Non-refillable container. Do not reuse or refill this container. Offer for recycling if available. Clean container promptly after emptying.

[containers 5 gallons or under] Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with solvent used to dilute the product for use and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

[containers over 5 gallons] Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with solvent used to dilute the product for use. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store for later use or disposal. Repeat this procedure two more times.

IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following conditions, disclaimer of warranties and limitations of liability.

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