

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

9 MAR 1995

Mr. Michael Sarli
 Manager, Regulatory Affairs
 Whitemire Research Laboratories
 3568 Tree Court Industrial Boulevard
 St. Louis, MS 63122-6620

Subject: Labeling amendment for:
 Whitemire PT 170 X-Clude
 (EPA Reg. No. 499-233)
 Application dated September 9, 1994

Dear Registrant:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable subject to the comments listed below. One copy of the finished labeling must be submitted prior to releasing the product for shipment.

Comments:

1. Correct the typographical errors within the box entitled Agricultural Use Requirements (i.e. exceptons and ths to exceptions and this).
2. Within the section entitled "For Use Outdoors":
 - a) Delete "Attention:";
 - b) Move the following statement to the end of the statements within the box entitled Non-Agricultural Use Requirements: "Keep children and pets off treated areas until spray has dried."; and
 - c) move the following statement to the end of the first paragraph under Hazards to Humans and Domestic Animals: "Keep out of lawn and garden fish pools and other bodies of water."
3. Add the following statement to the end of those within the box entitled Non-Agricultural Use Requirements: "Do not use in patient rooms or in any rooms while occupied by the elderly or the infirm. After treatment ventilate room for two hours before returning patient to room."

CONCURRENCES

SYMBOL	<i>Pm 10</i>						
SURNAME	<i>Martin</i>	<i>Pm 10</i>					
DATE	<i>3/7/95</i>	<i>3/8/95</i>					

4. Within the section entitled For Use In: add (except patient rooms while occupied) after the sites "hospitals" and "nursing homes".

Sincerely,

/s/

Richard P. Keigwin
Acting Product Manager 10
Insecticide & Rodenticide Branch
Registration Division (7505C)

PT[®] 170
X-CLUDE[®]
 Microencapsulated Timed
 Release Pyrethrum
 Liquid Concentrate



Kills and Repels: Angoumois Grain Moths, Ants, Aphids, Armyworms, Bees, Beetles (Aster Beetles, Blister Beetles, Bugs (Boxelder, Lace and Plant), Cadelles, Carpet Beetles, Caterpillars (Cabbage Worms, Rose Slugs, Hornworms), Carpenter Ants, Centipedes, Cigarette Beetles, Clover Mites, Cockroaches, Colorado Potato Beetles, Confused Flour Beetles, Crickets, Cucumber Beetles, Dermestid Beetles, Dried Fruit Beetles, Drugstore Beetles, Earwigs, Firebrats, Flea Beetles, Fleas, Flies (Horn Flies, House Flies, Stable Flies), Fruitworm, Fungus Gnats, Fungus Gnat Larvae, Gnats, Grain Mites, Grasshoppers, Indian Meal Moths, Japanese Beetles, Leafminers, Leafhoppers, Leafrollers, Loopers, Mealworms, Mealybugs, Mediterranean Flour Moths, Millipedes, Mosquitoes, Moths, Psylla, Red Flour Beetles, Rose Aphids, Rose Chafers, Saw-toothed Grain Beetles, Scale, Scorpions, Silverfish, Sowbugs, Spiders, Spider Mites, Stink Bugs, Tarnished Plant Bugs, Thrips, Ticks, Trogaderma, Wasps, Watermelon Beetles), Weevils (Granary Weevils and Rice Weevils), Yellowjackets and Whiteflies.

For Use In: Airplanes, Bakeries, Beverage Plants, Calf Hutches, Canneries, Dairies, Florists, Flour Mills, Food Processing Plants, Food Storage Areas, Garden Centers, Grain Mills, Greenhouses, Hobby Greenhouses, Hog Operations, Homes, Horse Barns, Hospitals, Industrial Installations, Interiorscapes, Kennels, Landscapes, Loading sheds, Meatpacking Plants, Milk Rooms, Milking Parlors, Motels, Mushroom Houses, Nurseries, Nursing Homes, Office Buildings, Poultry Operations, Rail Cars, Residences, Restaurants, Schools, Ships, Stables, Supermarkets, Truck Trailers, Warehouses and Zoos.

Authorized by USDA for use in Federally inspected meat and poultry plants

Active Ingredients:

Pyrethrins	1.1%
Technical Piperonyl Butoxide*	2.2%
N-octyl Bicycloheptene Dicarboximide	3.7%
Inert Ingredients	93.0%

*Equivalent to 1.76% butylcarbityl (6-propoxy-piperonyl) ether and 0.44% related compounds

NET CONTENTS 1 QUART

EPA Reg. No. 499-233
 EPA Est. No. 499-MO-1
**KEEP OUT OF REACH
 OF CHILDREN
 CAUTION**

DIRECTIONS FOR USE

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

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 area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

How to mix X-Clude[®]: Shake container well. Wet measuring cup with water and pour out excess. Add the appropriate amount of X-Clude[®] concentrate to the measuring cup. Add water in amounts of two to three times the quantity of X-Clude[®] and mix. Fill spray tank half full with water. Add the X-Clude[®] mixture from the measuring cup to the spray tank. Rinse out the measuring cup with additional water and add rinsate to the spray tank. Add remaining water to spray tank and mix well. Agitate material while using. Use 50 mesh screen in sprayer.

FOR HOSE-END SPRAYERS: Add water to the selected mark for the number of diluted gallons desired. Add the amount of X-Clude[®] selected from the dilution chart to obtain the desired dilution. Shake sprayer to disperse the X-Clude[®] and shake occasionally during use to maintain dispersion.

FOR USE WITH COMPRESSED AIR SPRAYERS: For surface applications, apply as a coarse wet spray. Apply at rate of 1 gallon diluted product per 1,000 sq ft. of surface. For crack and crevice application, make one second injections every 12 inches. In long running cracks, move injector tip at rate of one linear foot per one second. If sprayed to runoff, excess may be wiped off with a damp cloth or removed by vacuuming.

FOR USE IN MECHANICAL AND ELECTRICAL FOGGING EQUIPMENT: Close room or warehouse and shut off ventilation. Use a spraying device similar to a Challenger, Root-Lowell Misting Machine or Microsol machine that produces a fine spray. Using a mixture of 1 fl. oz. X-Clude[®] per gallon solution, treat at the rate of 3 fl. oz. per 1,000 cubic feet of space. Direct treatment toward ceiling and upper walls of areas as well as behind and under obstructions. Food should be covered or removed during treatment. Food contact surfaces should be covered during treatment or thoroughly cleaned before using. Do not apply while food processing is under way. Leave room closed for at least 1 hour after applica-

tion. Do not remain in treated areas. Ventilate prior to re-entry. Repeat applications as necessary. Use only clean equipment. Clean equipment after each use with water.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, greenhouses and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE). The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard. Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours. PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls, waterproof gloves, and shoes plus socks.

HORTICULTURE USE

Mixing and Dilution Instructions:
 Heavy Infestation: 2 fl. oz. X-Clude[®] per gallon of water
 Preventive and Maintenance: 0.5 fl. oz. X-Clude[®]

ORNAMENTAL PLANTS

For Use In: Florists, Garden Centers, Greenhouses, Hobby Greenhouses, Interiorscapes, Landscapes and Nurseries.

KILLS: Aphids, Armyworms, Bees, Beetles, Bugs (Boxelder, Lace and Plant) Centipedes, Clover Mites, Crickets, Earwigs, Firebrats, Flies, Fruitworm, Fungus Gnats, Fungus Gnat Larvae, Grasshoppers, Leafminers, Leafrollers, Loopers, Mealybugs, Millipedes, Mosquitoes, Psylla, Scale insects, Scorpions, Sowbugs, Spiders, Thrips, Wasps, Yellowjackets and Whiteflies

Treat upper and lower foliage surfaces of plants uniformly

Special Notice: This product has demonstrated excellent plant safety, however, all varieties of the plants listed have not been tested. When treating large numbers of plants of a single variety, treat a few plants and observe for phytotoxicity prior to full scale application

Direct treatment to some open blooms may cause petal drop

For Use Indoors and Outdoors On, But Not Limited To: African Violets, Agapanthus, Ageratum, Aluminum Plant, Alyssum, Arrowhead, Aster, Azalea,

Begonia, Bird's Nest Fern, Blue Spruce, Boston Fern, Bottlebrush, Cactus, Calendula, Camellia, Carnation, Celosia Jewel Box, Chrysanthemum, Cockscomb, Coleus, Cotoneaster, Crape-Myrtle, Croton, Dahlia, Daisy, Dianthus, Dogwood, Dusty Miller, Dwarf Lilac, Escallonia, Euonymus, Flat Topped Sedum, Floss Flower, Friendship Plant, Gardenia, Gazania, Geranium, Gold dust, Honeysuckle, Hydrangea, Ilex, Impatiens, Ivy, Jade Plant (Crassula), Japanese Aralia, Juniper, Leucothoe, Lilac, Malus, Maranta, Marigold, Mock Orange, Mugo Pine, Nandina, Oleander, Orchid, Ornamental Evergreens, Osmanthus, Pachysandra, Periwinkle, Petunia Pfitzer Juniper, Photinia, Pineapple Guava, Pityosporum, Podocarpus, Primrose, Privet, Pyracantha, Raphiolepis, Rhododendron, Rose, Salvia, Sansevieria, Scarlet Sage, Snake Plant, Snapdragon, Soft Maple, Spider Plant, Star Jasmine, Straw Flower, Swedish Ivy, Sweet Pea, Tahitian Bridal Veil, Velvet Plant (Gynura), Verbena, Vervia, Wandering Jew, Wax Plant, Zinnia.

DO NOT USE ON: Cyclamen, Nasturtium or Brilliant Diamond poinsettias. Do not treat vegetable gardens.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses

PEST CONTROL

Mixing and Dilution Instructions
 Clean Out: 6 fl. oz. X-Clude[®] per gallon of water

Maintenance: 2 fl. oz. X-Clude[®] per gallon of water

Fogging and Outdoor: 1 fl. oz. X-Clude[®] per gallon of water

FOR USE INDOORS

Crawling Insects: Make spot treatment and/or crack and crevice injections into hiding places such as cracks and crevices, moist areas, openings around pipes and sinks, under refrigerators and manholes. Treat floors, walls, under pallets, behind shelves and drawers. Apply directly on insects

in these locations where possible. Repeat as necessary

Ants: Treat trails, nests, and points of entry around doors, bookcases and storage areas. Apply directly on insects in these locations where possible

Carpenter Ants: Locate source of infestation. Inject 5-10 seconds of product into insect tunnels and cavities

See other side for Precautionary Statements

(OVER)

Carpet Beetles: Make applications on and under edge of floor coverings, under carpets and furniture and in closets or other localities where these insects are found. Entire carpets may be treated.

Fleas: Treat infested areas such as pet beds and resting areas and areas of floor and floor covering where these pests may be present. Replace old pet bedding with clean fresh bedding after treatment. Repeat application as necessary.

Ticks: Direct X-Clude® toward pet beds and resting areas. Treat adjacent cracks and crevices such as behind baseboards and edges of carpet and floor covers. Treat higher cracks such as upper door jams and window framing, behind pictures and other areas where females may crawl to lay eggs. Repeat treatment as necessary.

Stored Product Pests: Make spot and/or crack and crevice treatment to localized areas including shelves, cupboards, walls and floors where food products suspected of being infested are stored. Remove or cover food before treatment. This treatment is supplemental to good housekeeping, since it will have no effect on insects within packaging. Infested food packaging should be destroyed.

Flying Insects: (For use only with Mechanical and Electrical Foggers) Close all windows and doors and direct treatment upward at a rate of 5-8 seconds per 1,000 cubic feet. Disperse in all locations. Keep area closed for at least 15 minutes. Do not remain in treated area. Treat normal fly resting areas such as ceilings, screens, upper corners of the area, around windows and doors, light fixtures and other surfaces known to attract flies. Apply as a coarse wet spray. Using a mixture of 2 fl. oz. X-Clude® per gallon of water apply at the rate of 1 gallon diluted product per 1,000 square foot of surface. For best results initiate treatment at the beginning of the fly season and repeat weekly during periods of heavy fly activity. Repeat application as necessary.

FOOD AREAS: Do not apply directly to food. In commercial food handling facilities, cover or remove any food, utensils, food processing equipment during application. All food contact surfaces should be covered during treatment or thoroughly cleaned before using. When using this product as a ULV treatment in food areas, do not apply while food processing is under way. Except in Federally inspected meat and poultry plants, careful crack and crevice application for inspection purposes is permissible at all times. Use in edible product processing areas of Federally inspected meat and poultry plants is limited to crack and crevice treatment only.

After space treatment in meat packing plants, bakeries, and other food processing plants, wash with an accept-

able detergent solution and then rinse with potable water all equipment, benches, shelves, etc., where exposed food will be handled. Treat areas for receiving, storage, preparing, processing, packaging, edible waste storage and serving.

FOR USE OUTDOORS

Flying Insects: Treat outside surfaces of screens, doors, window frames, or wherever insects may enter indoors. Also treat surfaces around light fixtures on porches, in garages, and other places insects light or congregate. Repeat application as necessary.

Crawling Insects: For treatment of localized infestations of these insects in outdoor areas which are landscaped, planted, mulched or unmaintained, treat infested areas. For ants, wet hills and runways. Repeat applications as infestation warrants and as reinfestations occur. Apply X-Clude® to cracks and crevices where insects may enter premises. Areas to be treated include, but are not limited to, weep holes, under siding, wall voids, soffits, around attic vents, cracks and crevices, openings around windows, doors and pipes. Treatment of infested fences and tree holes is permitted.

Perimeter Treatment: To help prevent infestation of buildings, treat a band of soil 6 to 10 feet wide around and adjacent to the building. Also, treat the building foundation to a height of 2 to 3 feet where pests are active and may enter.

Attention: Keep children and pets off treated areas until spray has dried. Keep out of lawn and garden fish pools and other bodies of water.

USE IN AND AROUND LIVESTOCK HOUSING

For fast knockdown of flying insects: Remove food and cover all food and milking utensils. Close milk bulk tank lids to prevent contamination from spray and dead or falling insects. Close all windows and doors. Using a mixture of 1 fl. oz. X-Clude® per gallon of water solution, direct fog upward in all directions at the rate of 3 fl. oz. per 1,000 cubic feet of space. Ventilate the area after treatment is completed.

Do not apply to lactating or food animals. Do not contaminate milk, food or drinking water.

For residual control of house flies and stable flies in animal areas such as dog kennels, hog barns, rabbit hutches, dairy areas, milkrooms, calf hutches, calving pens and parlors: Treat normal fly resting areas such as ceilings, screens, upper corners of the area, around windows and doors, light fixtures and other surfaces known to attract flies. Apply as a coarse wet spray. Using a mixture of 2 fl. oz. of X-Clude® per gallon of water. Apply at a rate of 1 gallon diluted product per 1,000 sq. ft. of surface. For best results initiate treatments at the beginning of the fly season and repeat weekly during periods of heavy fly activity.

For flea control: Treat animal areas such as dog kennels and runs. Apply as a coarse wet spray using a mixture of 2 fl. oz. of X-Clude® per gallon of water. Apply at a rate of one gallon diluted product per 1,000 sq. ft. of surface.

For treatment of non-lactating and non-food animals (Dogs, cats, and horses): Use 2 fl. oz. of X-Clude® per gallon of water (use 4 fl. oz. for quick knockdown and longer residual control) and apply as a low pressure spray. Lightly mist animals thoroughly, but do not treat to runoff. Do not spray directly toward the face or eyes. Application may be repeated daily or as necessary.

STORAGE AND DISPOSAL

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

Storage: Store in original container. Keep away from children. Do not store below 32°F. If exposed to temperatures below 32°F, thaw completely and mix well before using.

Pesticide Disposal: Pesticide, spray mixture or rinse water that cannot be used according to label directions must be disposed of according to applicable Federal, state or local procedures.

Container Disposal: Triple rinse container then offer for recycling or reconditioning or dispose of in a sanitary landfill or by incineration if allowed by state and local authorities.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Avoid contact with eyes. In case of contact, immediately flush eyes with plenty of water. Get medical attention if irritation persists. Avoid breathing spray mist. Keep container closed when not in use. Cover or remove fish bowls and aquaria. Food should be removed or covered during treatment. All food contact surfaces and cooking utensils should be covered during treatment or thoroughly cleaned before using.

APPLICATORS AND OTHER HANDLERS MUST WEAR: Long-sleeved shirt and long pants, waterproof gloves, shoes plus socks. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergents and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS: Users should: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. 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 pesticide is toxic to fish and birds. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Keep out of lakes, streams and ponds. Do not contaminate water when disposing of equipment washwaters.

PHYSICAL OR CHEMICAL HAZARDS: Do not spray when electrical short circuits might result, such as wall outlets, conduits, motors, switches, etc. Do not spray directly into any electronic equipment, such as radio, televisions, computers, telephones, etc.

LIMITATION OF LIABILITY

Use only as directed. Buyer assumes all risks in using or handling this product in any way. WHITMIRE EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE AND MERCHANTABILITY. IN NO CASE SHALL WHITMIRE BE LIABLE FOR CONSEQUENTIAL, SPECIAL, INCIDENTAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. DAMAGES FROM THE USE OF THIS PRODUCT ARE EXPRESSLY LIMITED TO REPLACEMENT OF THE PRODUCT OR REFUND OF THE PURCHASE PRICE.

A Prescription Treatment brand insecticide from:
Whitmire Research Laboratories, Inc.
3568 Tree Court Ind. Bldg.
St. Louis, Missouri 63122
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Label No. 17-0231-B

ACCEPTED
with COMMENTS
in EPA Letter Dated

9 MAR 1995

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended and the pesticide registration provisions of the Code of Federal Regulations, Registration No.

499-333