

MAR 20 1991

Mr. Michael Sarli
Whitmire Research Laboratories, Inc.
3568 Tree Court Industrial Boulevard
St. Louis, MO 63122

Dear Mr. Sarli:

Subject: Whitmire PT 170 X-Ciude
EPA Registration No. 499-233

The proposed amendment to the registration of the product cited above under the Federal Insecticide, Fungicide, and Rodenticide Act adding a new source for the active ingredient and changing the declaration of petroleum distillate from active to inert is acceptable subject to the comments listed below. A stamped copy of the label is enclosed for your records.

1. The correct name for the third active ingredient is:

N-Octyl Bicycloheptene Dicarboximide

2. The asterisk in the ingredient statement should appear after the ingredient, Technical Piperonyl Butoxide. The footnote refers to this ingredient.
3. Change the statement "Do not contaminate water by cleaning of equipment or disposal of wastes" to read "Do not contaminate water when disposing of equipment washwaters."

Sincerely yours,

RFM

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

Enclosure

57706:I:Tavano:L10-4:KEVRIC:03/13/91:04/07/91:tk:DD

CONCURRENCES

		CONCURRENCES						
SYMBOL	H75052							
SURNAME	Tavano							
DATE	3/15/91							

6/23/88

FRONT PANEL:

Whitmire
PT® 170 X-Clude™
Microencapsulated Time Release Pyrethrum
Liquid Concentrate

Kills and Repels: Angoumois Grain Moths, Ants, Aphids, Beetles [Aster Beetles, Blister Beetles, Carpet Beetles, Cigarette Beetles, Colorado Potato Beetles, Confused Flour Beetle, Cucumber Beetles, Dermestid Beetles, Dried Fruit Beetles, Drugstore Beetles, Flea Beetles, Horn Flies, House Flies, Japanese Beetles, Red Flour Beetles, Rose Chafer, Saw-toothed Grain Beetles, Stable Flies, Trogaderma, Watermelon Beetles, Weevils (Granary Weevils and Rice Weevils)], Caddises, Caterpillars (Cabbage Worms, Rose Slugs, Hornworms), Centipedes, Cockroaches, Crickets, Firebrats, Fleas, Flies, Fungus Gnats, Gnats, Grain Mites, Indian Meal Moths, Leafhoppers, Mealworms, Mealybugs, Mediterranean Flour Moths, Moths, Rose Aphids, Scales, Scorpions, Silverfish, Spiders, Spider Mites, Stink Bugs, Tarnished Plant Bugs, Ticks, and White Flies.

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, Hotels, Industrial Installations, Interiorscapes, Kennels, Landscapes, Loafing 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.

Active Ingredients:

Pyrethrins	1.1%
Technical Piperonyl Butoxide	2.2%
* N-Octyl Bicycloheptene	3.7%

Inert Ingredients 93.0%

*Equivalent to (butylcarbityl) (6-propylpiperonyl) ether and .44% rotenone compounds.
In EPA Letter Dated
MAY 19 1991

ACCEPTED
COMMENTS
MAY 19 1991
Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 499-233
EPA Reg. No. 499-MO-1.

KEEP OUT OF REACH OF CHILDREN
499-233
CAUTION

See side panel for additional precautionary statements.

NET CONTENTS: 12 fl. oz. (354 ml)

BACK PANEL:

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.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and birds. Do not apply directly to water. Keep out of lakes, streams, and ponds. Do not contaminate water by cleaning of equipment or disposal of wastes.

PHYSICAL OR CHEMICAL HAZARDS

Do not spray where 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.

DIRECTIONS FOR USE

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

Mixing and Dilution Instructions:

Structural Pest Control

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

Horticulture Use

Heavy Infestation: 2 fl. oz. X-Clude™ per gallon of water

Preventative and Maintenance: 0.5 fl. oz. X-Clude™

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 vigorously with a mixing stick. 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. Remove screen from sprayer.

BACK PANEL (cont.):

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, apply one second of spray injections every 12 inches. In long running cracks, move injector tip at rate of one linear foot per one second.

If sprayed to run off, 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, spray at the rate of 3 fluid ounces per 1,000 cubic feet of space. Direct spray 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 application. Do not remain in treated areas. Ventilate prior to re-entry. Repeat applications as necessary. Use only clean equipment. Clean equipment after completion of each use with 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. Direct spray on floors, walls, under pallets, behind shelves and drawers. Spray directly on insects in these locations where possible. Repeat as necessary.

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

Carpet Beetles: Make spray 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 and Ticks: Spray infested areas such as pet beds and resting areas and areas of floor and floor covering where these pests may be present. Old bedding of pets should be removed and replaced with clean, fresh bedding after treatments. Repeat application as necessary. **DO NOT APPLY DIRECTLY TO PETS**

BACK PANEL (cont.):

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. Food should be removed or covered during treatment. This treatment is supplemental to good housekeeping, since it will have no effect on insects breeding 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 fog 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. 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 space spray 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.

After space spraying in meat packing plants, bakeries, and other food processing plants, wash with an acceptable 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: Spray 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 where there are weeds or brushy non-crop areas, spray infested areas thoroughly. For ants, thoroughly wet hills and runways. Repeat application as necessary.

Perimeter Treatment - To help prevent infestations 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 find entrance.

BACK PANEL (cont.):

FLORISTS, GARDEN CENTERS, GREENHOUSES,
HOBBY GREENHOUSES, INTERIORSCAPES, LANDSCAPES AND NURSERIES

Spray 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, spray a few plants and observe for phytotoxicity prior to full scale application.

Direct spray 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, Camelia, Carnations, Celosia Jewel Box, Chrysanthemum, Cockscomb, Coleus, Cotoneaster, Crape Myrtle, Croton, Dahlia, Daisy Dianthus, Dogwood, Dusty Miller, Dwarf Lilac, Escalonia, Euonymus, Flat Topped Sedum, Floss Flower, Friendship Plant, Gardenia, Gazinia, Geranium, Golddust, Honeysuckle, Hydrangea, Ilex, Impatiens, Ivy, Jade Plant (Crassula), Japanese Arelia, Juniper, Leucothoe, Lilac, Malus, Maranta, Marigold, Mock Orange, Mugho Pine, Nandia, Oleander, Orchid, Ornamental Evergreens, Osmanthus, Pachysandra, Periwinkle, Petunia, Pfitzer Juniper, Photinia, Pineapple Guava, Pittosporum, Podocarpus, Primrose, Privit, Pyracantha, Raphiolepis, Phododendron, Rose, Salvia, Sansevieria, Scarlet Sage, Snake Plant, Snapdragon, Soft Maple, Spider Plant, Star Jasmine, Strawflower, Swedish Ivy, Sweet Pea, Tahitian Bridal Veil, Velvet Plant (Gynura), Verbena, Virvia, Wandering Jew, Wax Plant, Zinnia.

DO NOT USE ON: Cyclamen and Nasturtium.

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 fluid ounce X-Clude™ per gallon of water solution, direct fog upward in all directions at the rate of 3 fluid ounces per 1,000 cubic feet of space. Ventilate the area after treatment is completed.

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

For residual control of house flies and stable flies in 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 fluid ounces 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 begin treatments at the start of the fly season and repeat weekly during periods of heavy fly activity.

BACK PANEL (cont.):

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 land fill, or by incineration if allowed by state and local authorities.

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