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APR 19 1989

Frank Miller & Sons, Inc.  
13831 South Emerald Avenue  
Chicago, IL 60627

Attention: Richard Kudia

Gentlemen:

Subject: Emulsifiable Spray Concentrate  
EPA Registration No. 8123-45  
Your Submission Dated July 16, 1987

The amendment referred to above, submitted in connection with registration under section 3(c)(7)(A) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), is acceptable provided that you:

1. Submit/cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Make the labeling change listed below before you release the product for shipment bearing the amended labeling:
  - Place "Keep Out of Reach of Children," "Caution," and "Statement of Practical Treatment" on the front panel.
3. Submit five (5) copies of your final printed labeling before you release the product for shipment.

Since some of the uses on this label are under the jurisdiction of the U.S. Department of Agriculture, you must obtain concurrent acceptance of the label before releasing this product for shipment.

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CONCURRENCES

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

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

Sincerely yours,



Phil Hutton  
Product Manager (17)  
Insecticide-Rodenticide Branch  
Registration Division (H7504C)

Enclosure

**KEEP OUT OF REACH OF CHILDREN  
CAUTION  
STATEMENT OF PRACTICAL TREATMENT  
(FIRST AID)**

**IF SWALLOWED** - Call a physician or Poison Control Center immediately. **DO NOT INDUCE VOMITING.** Vomiting may cause aspiration pneumonia.  
**IF INHALED** - Remove person to fresh air.  
**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 immediately if irritation persists.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

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

**CAUTION**

Harmful if swallowed. Keep out of reach of children. Avoid breathing spray mist. Avoid skin and eye contact. Wash thoroughly after handling and before eating or smoking.

Do not allow children or pets to contact treated surfaces until spray has dried. Do not use on plants. Do not allow spray to contact food, feedstuffs or water supplies. Thoroughly wash dishes and food handling utensils contaminated with this product with an effective cleaning product and rinse with potable water after spraying. Remove pets and cover fish bowls before spraying.

**ENVIRONMENTAL HAZARDS**

This product is toxic to fish, birds, and other wildlife. Do not apply directly to water. Do not contaminate water by disposal of wastes. Apply this product only as specified on this label.

**PHYSICAL HAZARDS**

Do not use or store near heat or open flame. Exposure to temperatures above 130° F may cause bursting.

**STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

**STORAGE:** Do not expose to extreme temperatures. Do not stack more than four drums high. Drums should be opened in well-ventilated areas. Leaking or damaged drums should be placed in overpack drums for disposal. Spills should be absorbed in sawdust or sand and disposed of in a sanitary landfill. Keep container closed when not in use.

**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:** 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.

APPROVED  
with COMMENTS  
in EPA REGISTER

APR 19 1989

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

8123-45

**EMULSIFIABLE SPRAY  
CONCENTRATE**

Authorized by U.S.D.A. for use in federally inspected meat  
and poultry plants

**ACTIVE INGREDIENTS:**

Pyrethrins	1.20%
Piperonyl Butoxide, Technical*	9.60%
Petroleum Distillates	81.20%

**INERT INGREDIENTS:**

8.00%

**TOTAL 100.00%**

\*Equivalent to 7.68% (Butylcarbityl 6-crotyl piperonyl) Ether and 1.92 related compounds

EPA REG. NO. 8123-45  
EPA EST. NO. 8123-IL-1

SOLD BY

**FRANK MILLER & SONS, INC.**  
13861 S. Emerald Avenue  
Chicago, Illinois 60627

**BEST AVAILABLE COPY**

DIRECTOR

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 manner that causes drift through drift exposure way. When being treated must be vacated. Do not enter treated areas until sprays have dried.

Because certain states may have different intervals for various crops, consult your State Department of Agriculture for more information.

USE PRECAUTIONS

The use of this product as a surface spray on plants should be confined to areas where plants are not in operation. Foods should be removed for treatment. All food processing equipment during treatment and thorough cleaning and rinsed with potable water. Do not use on any birds, pets, or fish aquaria.

When diluting with water, for immediate use. Holding time is not recommended. For other dilutions, a deodorized petting house is recommended.

Vacate premises after treatment. Sweep up and dispose of residue.

Repeat treatment as necessary. A combination of localized treatments is recommended.

Do not apply directly to food while food processing is in operation. Do not have to be sprayed with care and in accordance with the precautions indicated.

**AS A SURFACE SPRAY:** For insect infestations dilute a 4 parts water or oil. For federally inspected meat and poultry plants, dilute 1 part oil. To control ROACHES, CRICKETS, CLOVERMITE, WEEVILS, RICE WEEVILS, RUST RED FLOUR BEETLES, SPIDER BEETLES, DRUGSTORE BEETLES, SCORPIONS, BOX ELDER BEETLES: Use a good spray nozzle. Wet, spray. Direct the spray into crevices, under pallets, around the bases of machines. For SILVERFISH: Spray trails, nests and points of infestation. To be used, spray floors, at a rate of 1 gallon to 750 sq. ft.

To control CARPET BEETLES and under carpeting and rug floor and baseboards. Spray and infested areas of infestation as necessary.

To control **BEDBUGS**: Spray mattresses lightly, particularly around tuft and seams. Take bed apart and spray all joints. Treat baseboards, mouldings and floors. Repeat treatment as needed.

To control **FLEAS AND BROWN DOG TICKS**: Thoroughly spray infested areas, pet beds, resting quarters, nearby cracks and crevices, along and behind baseboards, mouldings, window and door frames and localized areas of floor covering. Fresh bedding should be placed in animal quarters following treatment. Concurrent treatment of animals with an approved insecticide is recommended. Repeat treatment as needed.

**AS A SPACE SPRAY**: Dilute at a rate of 1 part concentrate to 19 parts water or oil. Apply with mechanical or compressed air equipment (non-thermal) adjusted to deliver a fine mist. Close doors and windows and shut off ventilating systems. For rapid control of **FLIES, FRUIT FLIES, GNATS, MOSQUITOES, SKIPPER FLIES, WASPS, HORNETS, ANGOUMOIS GRAIN MOTHS, MEDITERRANEAN FLOUR MOTHS, INDIAN MEAL MOTHS, SMALL FLYING MOTHS, AND TOBACCO MOTHS**. Spray direct at an upward angle distributing it uniformly through the entire area at a rate of 1 ounce per 1,000 cubic feet of space. Keep area closed for at least 10 minutes. Ventilate and sweep up and destroy dead and fallen insects before reoccupying.

**U.L.V. APPLICATION**: For rapid kill of exposed or accessible stages of the insects named on this label, dilute 1 part concentrate to 1 to 9 parts water or oil. Apply using conventional mechanical or compressed air equipment (non-thermal) following directions for space spraying. Apply the above dilutions at a rate of from 1 to 10 ounces per 1,000 cubic feet of space. When used in meat and poultry processing plants, a dilution of no less than 1 to 1 (50%) is acceptable, and it must be dispersed from equipment adjusted to deliver an aerosol spray in droplets over 50 microns in diameter and 80% less than 39 microns.

**FOR USE ON LIVESTOCK**: To control **HORN FLIES, HOUSE FLIES, MOSQUITOES, AND GNATS**. Dilute 1 part concentrate and 39 parts water and apply to wet the hair thoroughly, with particular attention to the top line, under the flanks, withers, and other infested areas. Repeat treatment at intervals of 5 to 12 days for small insect populations or as needed when flies are emerging in large numbers.

To control **STABLE FLIES, HORSE FLIES AND DEER FLIES**: Dilute 1 part concentrate and 9 parts water and apply one quart per adult animal to wet hair thoroughly with particular attention to the legs, flanks, barrel, top line, and other body areas commonly attacked by these flies. Repeat treatment each week as needed.

To control **FACE FLIES**: Dilute 1 part concentrate and 9 parts water. Use a spray which produces large wetting droplets. Apply to the face of the animal in the morning before releasing to pasture. Apply sufficiently to wet the face but not more than 1 1/2 ounces per animal.

For effective control of **MOTILE STAGES OF (BITING) YELLOW LICE AND (SUCKING) BLUE LICE ON CATTLE, HORSES, SHEEP, GOATS AND HOGS**: Dilute this concentrate at a rate of 1 part in 100 parts of water. Spray to thoroughly wet hair of the animal including the head and brush of the tail. Repeat treatment in 10 days to kill newly hatched lice.

To control **POULTRY LICE**: Using a  $\frac{1}{2}$  or 1 to 100 in water, dip birds by submerging in a barrel, tank or tub of the solution holding the wings away from the body to insure thorough wetting of all infested areas. In order to avoid chilling the fowls, dip them on a warm day or in a warm building.

For control of **BEDBUGS AND MITES IN POULTRY HOUSES**: Dilute 1 part concentrate and 9 parts of water and spray crevices of roost poles, cracks in walls, and cracks in nests where the bedbugs and mites hide.

To control **SHEEP "TICK" OR KED**: Dilute at the rate of 1 part of concentrate to 100 parts of water and thoroughly wet all portions of the body by dipping or by spraying with a nozzle adjustment to give penetration of the wool. Treat at a rate sufficient to wet the animal.

To kill **FLEAS ON LIVESTOCK AND PETS** and to obtain protection against reinfestation: Dilute at a rate of 1 part concentrate and 9 parts water and wet the animal by dipping or spraying. For best results against fleas and ticks on dogs, the kennels or animal quarters and bedding should also be treated.

To control **SPINOSE EAR TICK**: Dilute at the rate of 1 part concentrate and 24 parts of water and apply by individual treatment, syringing or pouring 1 to 2 ounces in each ear of large animals or a few drops into ears of dogs.

**IN BARN, MILKING PARLORS, MILK ROOMS AND DAIRIES**: To control **FLIES, MOSQUITOES AND GNATS**: Dilute at the rate of 1 part of concentrate and 9 parts of water or oil and apply as a fog or fine mist, a resting spray toward the ceiling and upper corners until the area is filled with mist using about 2 ounces per 1,000 cubic feet of space. For best results, close doors and windows before spraying and keep them closed for ten to fifteen minutes. Vacate the area and ventilate before reoccupying. Repeat application as necessary.

**MOSQUITO CONTROL OUTDOORS**: To control **ADULT MOSQUITOES**: Using ground application, dilute 1 part concentrate and 7 parts water or oil. Apply as a fine mist or fog. Treat entire area with particular attention to shrubbery and vegetation where mosquitoes may rest, also low or marshy areas, shore lines and stagnant pools or ponds. Repeat as necessary, usually once or twice a week.

With mobile or truck mounted equipment, the above application rate will result if a 400 foot swath is treated, traveling at 15 miles per hour, dispersing spray at a rate of 40 gallons per hour.

Application using fixed wing aircraft. Use 6 to 12 ounces of concentrate in 4 gallons of water per acre.

To control **MOSQUITO LARVAE**: Dilute in oil at a rate of 1 part concentrate to 150 parts oil (5 pints in 50 gallons) and apply at a rate of 20 to 25 gallons per acre. Apply as a coarse wetting spray uniformly over wetlands, swamps, marshes or bodies of water where larvae may breed. Do not exceed this dosage or fish kill may result.

**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 pre-harvest 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" to flush insects out of hiding and into contact with spray residues.

On the following crops to control named insects, use 12 to 36 ounces per acre in sufficient water 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, BRUSSEL SPROUTS, CAULIFLOWER: APHIDS, CABBAGE LOOPER, CROSS-STRIPED CABBAGE WORM, DIAMONDBACK MOTH-LARVAE, FLEA-BEETLE, HARLEQUIN BUG, IMPORTED CABBAGE WORM, STINK BUG CELERY: GREEN PEACH APHIDS, CABBAGE LOOPER, LEAF TIER CRANBERRIES: FIREWORMS, LEAFHOPPER EGG-PLANTS: BLISTER BEETLE, COLORADO POTATO BEETLE, FLEA BEETLE, GREEN PEACH APHID DIAMONDBACK MOTH LARVAE, IMPORTED CABBAGE-WORM.

**MUSTARD GREENS, KALE, COLLARDS, TURNIPS**: IMPORTED CABBAGE WORM, DIAMONDBACK CATERPILLER, APHIDS, CABBAGE LOOPER PEPPERS: GREEN PEACH APHIDS POTATOES: APHIDS, COLORADO POTATO BEETLE, FLEA BEETLE, LEAF HOPPER 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.

**DROSOPHILA OR FRUIT FLY CONTROL**: Dilute at the rate of 6 parts concentrate with 1,200 parts (6 pints per 150 gallons or 6 tablespoons with 4 gallons of water). Thoroughly mix the emulsion in the spray tank. Make treatments as follows:

1. Apply liberally to tomatoes and fruits in baskets, on trucks and plants. Use sprayers at a high pressure for applying at the rate of 5 or 6 pints of the diluted spray to a two-ton load of tomatoes. Direct the spray for a maximum coverage of the baskets or hampers. It is important to spray between and beneath the containers. This spray not only kills the flies, but the emulsion loosens any dead flies so that they are readily washed from the fruit.
2. Spray the raw stock stacked in the yard.
3. Dip baskets in the diluted spray after dumping the fruit to kill adhering larvae and pupae.
4. After washing and cleaning up the inside of the processing plant and just prior to bringing fruit into it, the entire space inside the cannery should be sprayed at a dilution of 6 parts concentrate to 59 parts water (6 pints) with 7 gallons 3 pints water or 12 tablespoonfuls with 3 1/2 gallons water). At the rate of 1 gallon to 750 square feet direct spray on walls, ceilings, and floors, paying special attention to forcing spray into all cracks and crevices.

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