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US ENVIRONMENTAL PROTECTION AGENCY  
OFFICE OF PESTICIDES PROGRAMS  
REGISTRATION DIVISION (75-767)  
WASHINGTON, DC 20460

EPA REGISTRATION NO.  
44716-11

DATE OF ISSUANCE  
FEB 27 1991

TERM OF ISSUANCE  
Conditional

**NOTICE OF PESTICIDE:**  REGISTRATION  
 REREGISTRATION  
(Under the Federal Insecticide, Fungicide,  
and Rodenticide Act, as amended)

NAME OF PESTICIDE PRODUCT  
Mopane Bark Concentrate  
Mopane Bark Concentrate

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Harvard Manufacturing Company, Inc.  
1000 1st Street, S.W.  
South St. Paul, MN 55075

5386420

**NOTE:** Changes in labeling formula 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 U.S. 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.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this 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.

section 3(c)(7)(A) provided that you:

1. Submit/continue 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 changes listed below before you release the product for shipment:

- a. Add the phrase "EPA Registration No. 44716-11."
- b. Delete the claim "Provides Rapid Kill of Insects Named Without Objectionable Residues." We will also be bringing this item up with your supplier.
- c. Under ENVIRONMENTAL HAZARDS, expand the sentence "Do not apply directly . . ." to read "Do not apply directly to lakes, streams, or ponds. Do not apply directly to water or wetlands . . . except as indicated under mosquito larvae control. Shrimp and crabs may be killed at application rates recommended on this label. Do not apply where these are important resources."

Retain the remainder of your text as you have it drafted.

ATTACHMENT IS APPLICABLE

**BEST AVAILABLE COPY**

SIGNATURE OF APPROVING OFFICIAL

DATE

3. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

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 constitutes acceptance of these conditions.

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

*PHM*  
Phil Hutton  
Product Manager (17)  
Insecticide-Rodenticide Branch  
Registration Division (N7505C)

Enclosures

**BEST AVAILABLE COPY**

Equine Products Division  
 Fearing Manufacturing Co., Inc.  
 490 Villaume avenue  
 So. St. Paul, MN 55075

FEARING EQUINE INSECTICIDE ECONO-PAC

EPA Reg No. 44716- EPA Est. No. 44716-  
 MN-1

- \* FOR USE BY TRAINED PERSONNEL ONLY
- \* A HIGHLY VERSATILE PYRENONE<sup>®</sup> CONCENTRATE.
- \* MAY BE DILUTED WITH EITHER WATER OR OIL.
- \* FOR USE IN BAKERIES, BOTTLING PLANTS, CANNERIES, FLOUR MILLS, FOOD PROCESSING PLANTS, GRAIN ELEVATORS, HOSPITALS, HOTELS, MOTELS, RESTAURANTS, OUTDOORS FOR MOSQUITO CONTROL AND ON GROWING CROPS.
- \* PROVIDES RAPID KILL OF INSECTS NAMED WITHOUT OBJECTIONABLE RESIDUES.

ACTIVE INGREDIENTS

Pyrethrins .....	1.0%
*Piperonyl Butoxide, Technical .....	10.0%
**INERT INGREDIENTS .....	89.0%
	100.0%

\*Equivalent to min. 8.0% (butylcarbityl) (6-propylpiperonyl) ether and 2.0% related compounds

\*\*Contains Petroleum Distillate

PYRENONE - Registered Trademark of Fairfield American Corporation

KEEP OUT OF REACH OF CHILDREN

**CAUTION**

**STATEMENT OF PRACTICAL TREATMENT**

IF SWALLOWED: Contact a physician or poison control center immediately. Do not induce vomiting. Vomiting may cause aspiration pneumonia.

IF INHALED: Remove affected person to fresh air. Apply artificial respiration if indicated.

IF ON SKIN: Remove contaminated clothing and wash affected areas of skin with soap and water. Contact a physician if irritation persists.

IF IN EYES: Flush with plenty of water. Contact a physician if irritation persists.

See rear panel for additional precautions

NET CONTENTS 3.4 oz.

16.0 oz.

No. 44716-11

**DIRECTIONS FOR USE**

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

This concentrate is designed to be diluted with water or oil before use. The resulting spray solution should be applied using good mechanical or compressed air fogging equipment.

Food additive tolerances have been established for the insecticide components in this product. When this product is used as directed, allowable tolerance levels will not be exceeded.

**INDOOR APPLICATION:** Remove pets, birds, and over fish aquarium before spraying.

To control exposed stages of house flies, including *Fruit Flies, Mosquitoes, Gnats, Cluster Flies, and Flying Moths*, dilute 1 part concentrate in 19 parts water or oil (6 1/2 ounces per gallon or 5 gallons per 100). Close doors and windows and shut off ventilating systems. Apply as a fog or fine mist directing the spray toward the upper portions of the room and toward windows and other light sources which attract these insects. Thoroughly fill the area with mist using 1 to 2 ounces over 1000 cubic feet. Keep area closed for 10 minutes or more. Vacate after treatment and ventilate before reoccupying. Do not apply while food processing is underway. Repeat treatment as needed.

For initial clean out of infestations of *Cockroaches, Ants, Spiders, Silverfish, Earwigs, Palmetto Bugs, Waterbugs, Firebrats, Flat Beetles, Crickets, Boxelder Bugs, Scorpions, and Clover Mites*: dilute 1 part concentrate in 4 parts water or oil. Apply as a coarse droplet surface spray using approximately 1 gallon to 750 square feet. Spray thoroughly all surfaces where these insects are usually found including walls, baseboard molding, doors, cabinets, shelves, sinks and pipes, with special attention to cracks and crevices, niches, dark corners, drains and similar hiding places. Treat ant trails, nests and runs. When possible, spray insects directly.

Repeat treatment using a dilution of 1 plus 9 at the same rate of application after an interval of one month or when reinfestation occurs.

**IN MILLS, ELEVATORS AND GRANARIES:** For rapid initial kill of exposed or accessible stages of *Granary Weevils, Rice Weevils, Confused Flour Beetles, Red Flour Beetles, Caddis, Sawtoothed Grain Beetles, Spider Beetles, Dried Fruit Beetles, Dark Meal Worms, Dermestid Beetles, Bean Weevils, Cheese Mites and Grain Mites*: dilute at a rate of 1 part concentrate to 9 parts water or oil. Clean out any waste grain, dust, dirt or debris and destroy before spraying. Apply as a coarse droplet spray using approximately 1 gallon to 750 square feet of surface.

Infested stored products should be fumigated or treated by other effective methods using an approved product intended for this

**BEST AVAILABLE**

In mills, elevators, and granaries, the and other surfaces of bins, storage particular attention to cracks, crevices, locations. Treat chording, handling inside of steel conveyors, pulleys, rollers, and choppers, pick up conveyors around the base of heavy machinery.

Thoroughly treat walls, floors, sloped surfaces, and lightly spray each layer as stacked.

Sack surfaces of bagged grain can be slightly moist.

For protection in transit, treat truck holds before loading. Using a dilution of 1 part concentrate to 9 parts water, apply at a rate of 1 gallon per 1000 square feet with particular attention to crevices and hiding places.

To control exposed accessible stages of *Angoumois Grain Moth* in stored concentrate in 4 parts water and a bin of binned grain at a rate of 2 gallons per 100 square feet. Apply a fine mist with the first appearance of infestation. Repeat treatment at intervals of 10 to 15 days. In case of severe infestation, take before spraying and make a record of infestation.

**ON LIVESTOCK:**

To control *Horn Flies, House Flies* dilute at the rate of 1 part concentrate to 9 parts water and apply to wet the hair thoroughly with a spray. Repeat treatment at intervals of 5 to 7 days or as needed when fly populations are high.

To control *Stable Flies, Horse Flies* dilute 1 part concentrate to 9 parts water and apply to wet the hair thoroughly with a spray. Repeat treatment at intervals of 5 to 7 days or as needed when fly populations are high.

To control *Face Flies*, dilute 1 part concentrate to 9 parts water and apply to wet the face of the animal in the morning. Apply sufficiently to wet the face but not the animal. Repeat daily as needed. Repeat treatment at intervals of 5 to 7 days or as needed when fly populations are high.

the 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 dilution of 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 of concentration with 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 concentrate to 100 parts of water and thoroughly wet all portions of the body by dipping or by spraying with sufficient pressure and 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 1 to 16 in 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 *Spliose Ear Tick*, dilute at the rate of 1 part concentrate to 24 parts water and apply by individual treatment, spraying or pouring 1 to 2 ounces into each ear of large animals or a few drops into the ears of dogs.

**IN BARNs, MILKING PARLORS, MILK ROOMS and DAIRIES:** To control *Fleas*, *Mosquitoes* and *Gnats*, dilute at the rate of 1 part concentrate to 9 parts of water or oil and apply as a fog or fine mist, directing the spray toward the ceiling and upper corners until the area is filled with mist using about 2 ounces per 1000 cubic feet of space. For best results, close doors and windows before spraying and keep them closed for ten to fifteen minutes. Vacate the treated area before reoccupying. Repeat application as necessary.

**MOSQUITO CONTROL OUTDOORS:** To control Adult Mosquitoes, using ground application, dilute 1 part concentrate in 7 parts of water or oil. Apply as a fine mist or fog. Treat shrubbery and vegetation where mosquitoes may rest. Shrubby and vegetation around stagnant pools, marshy areas, ponds and shore lines may be treated. Application of this product to any body of water is prohibited, when using for adult mosquito control. 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 mph, dispensing 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 2 1/2 pints of concentrate in 5 gallons of oil and apply at a rate of 5 gallons per acre. Apply as a coarse wetting spray uniformly over wet lands, swamps, marshes, or shallow waters. 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" where insects are flushed out of hiding and into contact with spray residues.

On the following crops to control the insects named, use 12 to 36 ounces per acre in sufficient water to allow thorough coverage (usually 100 gallons) or 3 oz. in 1 gallon of water to treat 500 square feet. Coverage of upper and lower leaf surfaces is essential for good control:

**CROPS:** Asparagus, Beans, Broccoli, Cabbage, Brussels Sprouts, Cauliflower, Celery, Cranberries, Eggplants, Lettuce, Mustard Greens, Kale, Ccillards, Turnips, Peppers, Potatoes, Radishes, Spinach and Tomatoes.

**TO CONTROL:** *Asparagus Beetles, Aphids, Leafhoppers, Whiteflies, Mexican Bean Beetles, 12-Spotted Cucumber Beetles, Cabbage Loopers, Cross-Striped Cabbageworms, Diamondback Moth Larvae, Flea Beetles, Harlequin Bugs, Imported Cabbageworms, Stink Bugs, Green Peach Aphids, Leaf Tiers, Fireworms, Blister Beetles, Colorado Potato Beetles, and Webworms.*

**ORNAMENTALS:** (African Violets, Astors, Azaleas, Begonias, Camellias, Carnations, Chrysanthemums, Dahlias, Dogwood, Geraniums, Gladioli, Marigolds, Roses, Rubber Plants, Wandering Jew, etc.) *Aphids, Flea Beetles, Leafhoppers, Whiteflies, Japanese Beetles and Gypsy Moth Adults and Caterpillars.*

**DROSOPHILA OR FRUIT FLY CONTROL:** Dilute at the rate of 6 parts concentrate with 1200 parts water (6 pints per 150 gallons or 6 tablespoonsful with 4 gallons water). Thoroughly mix the emulsion in the spray tank. Make treatments as follows:

1. To protect tomatoes and fruits in baskets, on trucks or in plants, use a product registered for this use such as Pyrenone Crop Spray, Code 12870.
2. Spray the raw stock stacked in the ward.
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 tablespoons with 3 1/4 pints water). At the rate of 1 gallon to 750 square feet (1 quart to 188 square feet) direct spray on walls, ceilings and floors, paying special attention to forcing spray into all cracks and crevices.

## STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. **PESTICIDE STORAGE AND SPILL PROCEDURES:** Store upright at room temperature. Avoid exposure to extreme temperature. In case of spill or leakage, soak up with an absorbent material such as sand, sawdust, earth, filler's earth, etc. Dispose of with chemical waste.

**PESTICIDE DISPOSAL:** Pesticide, spray mixture or rinse water that cannot be used according to label instructions must be disposed of at or by 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 approved State and local procedures.

**CONTAINERS ONE GALLON AND SMALLER:** Do not reuse container. Wrap container in several layers of newspaper and discard in trash.

## ENVIRONMENTAL HAZARDS

This product is extremely toxic to fish. Do not apply directly to water or wetlands (swamps, bogs, marshes, potholes). Runoff and drift from treated areas may be hazardous to aquatic organisms in adjacent sites. Do not contaminate water when disposing of equipment washwaters.

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS & DOMESTIC ANIMALS

#### CAUTION

Harmful if swallowed. Remove pets, birds and cover fish aquaria before spraying. Do not breathe spray mist. Wear mask or respirator of a type recommended by the US Bureau of Mines to give adequate protection against this material. Wear protective clothing. Wash exposed skin surfaces with soap and water after handling and before eating or smoking. Wash all contaminated clothing with soap and hot water before reuse.

Do not apply as a space spray while food processing is underway. Except in Federally inspected meat and poultry plants, when applied as a surface spray with care and in accordance with the directions and precautions given above, food processing operations may continue. Food processing operations may continue. Do not apply at any time as an undiluted space spray in edible product areas of Federally inspected meat and poultry plants. Foods should be removed or covered before treatments. Thoroughly wash all food processing surfaces before reuse. In food processing plants and Federally inspected meat and poultry plants, all surfaces in processing areas must be washed and rinsed in potable water after spraying.

When using in animal quarters, do not apply directly to food, water or food supplements. Wash teats of dairy animals before milking.

## PHYSICAL OR CHEMICAL HAZARDS

Do not use, pour or spill near heat or open flame.

Buyer assumes all risks of use, storage or handling of this product not in strict accordance with directions given herewith.