

PN 12 41014-10 1985

DEC 23 1985

Mr. M. M. Watts
Kincaid Enterprises, Inc.
P.O. Box 671
Nitro, WV 25143

Dear Mr. Watts:

Subject: Added Crops and Pests
Marlate 2-MR Methoxychlor
EPA Registration No. 41014-10
Your Letter Dated November 14, 1985

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. A stamped copy is enclosed for your records.

Sincerely yours,

Jay S. Ellenberger
Product Manager (12)
Insecticide-Rodenticide Branch
Registration Division (TS-767)

Enclosure

163231
17/03
355

39496:Ellenberger:163231:RD-07:KENCO:12/16/85:12/26/85:dej:VO

CONCURRENCES

SYMBOL	SURNAME	DATE						

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41014-10

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

Caution: Harmful if swallowed. Avoid breathing dust. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling.

ENVIRONMENTAL HAZARDS

This product is toxic to fish. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of wastes.
This product is toxic to bees and should not be applied when bees are actively visiting the area.

DIRECTIONS FOR USE

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

RE-ENTRY STATEMENT

Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons. Do not enter treated areas without protective clothing until dusts have settled.
Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your state department of agriculture for further information.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.
Storage: Reclose container after each use. Store in a cool, dry place away from food or feed. If spilled, sweep up and dispose of below.
Waste Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.
Container Disposal: Completely empty can, then dispose of can in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

NOTICE OF WARRANTY

Kincaid Enterprises, Inc. warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with the directions under normal use conditions. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of K.E., Inc. In no case shall K.E., Inc. be liable for consequential, special or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the Buyer. K.E., INC. MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

MARLATE 2-MR

24% TECHNICAL METHOXYCHLOR

EMULSIFIABLE INSECTICIDE

ONE GALLON CONTAINS 2 POUNDS TECHNICAL METHOXYCHLOR

ACTIVE INGREDIENTS	93%
* Methoxychlor, Technical	24%
Methylated Naphthalenes	69%
INERT INGREDIENTS	7%
Total . . .	100%

* 24% methoxychlor, technical is equivalent to 21% 2,2-bis (p-methoxyphenyl)-1,1,1-trichloroethane and 3% other isomers and reaction products.
EPA Reg. No. 41014-10
EPA EST. 41014-WV01

KEEP OUT OF REACH OF CHILDREN

CAUTION

STATEMENT OF PRACTICAL TREATMENT

If Swallowed: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching finger to back of throat.
If On Skin: Wash thoroughly with soap and water.
If In Eyes: Flush with plenty of water.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

IF EXPOSED TO PROLONGED COLD, PLACE IN WARM STORAGE (50 TO 80°F) FOR SEVERAL HOURS AND AGITATE BEFORE USING

NET CONTENTS

U.S. GALLONS

Mfg.
KINCAID ENTERPRISES, INC.
BOX 671 • NITRO, WV 25143



Time-Tested MARLATE • Methoxychlor Insecticide
K.E. KINCAID ENTERPRISES, INC.
P.O. BOX 671, NITRO, WV 25143
MARLATE is a registered trademark of Kincaid Enterprises, Inc.

GENERAL INFORMATION.

"Marlate" 2-MR Insecticide contains 2 lbs. technical methoxychlor per gallon. On mixing with water it forms a stable emulsion for the control of various insects. It is suitable for use in either high or low volume ground or aerial application equipment. When applying "Marlate" 2-MR Insecticide, use sufficient spray volume to thoroughly cover all surfaces to be treated. Do not use this product with any spray material(s) that is not compatible with oil. Do not apply within 14 days of sulfur or sulfur containing products. **IMPORTANT:** Users should observe the usual precautions concerning application of oil-containing products to crops during high temperatures, since many crops are then more susceptible to oil injury.

LIVESTOCK (Beef and Dairy Cattle, Goats, Sheep and Swine)

Apply the following rates of "Marlate" 2-MR Insecticide for the control of hornflies, lice, short-nosed and long-nosed cattle lice, ticks, keds and fleas:
Beef Cattle—Mix 2 quarts in 25 gallons of water. As a spray, use 2 quarts of the mixture per head for larger animals and proportionally less for smaller ones. Thoroughly wet animals. Do not use in dipping vats.
Spot Treatment for Tail Lice—Mix 4 to 6 quarts in 25 gallons of water and apply as a spray on the infested tail only. Do not apply to animals being finished for slaughter. Do not contaminate feed or water.
Dairy Cattle (Non-Lactating)—Mix 2 quarts in 25 gallons of water. As a spray use 2 quarts of the mixture per head for larger animals and proportionally less for smaller ones. Thoroughly wet animals. Do not use as a dip. Do not apply during lactation or within 2 weeks of freshening.

Do not apply to lactating animals within five (5) hours of milking or during milking.

Goats, Sheep and Swine—Mix 2 quarts in 25 gallons of water. As a spray thoroughly wet animals. Do not apply to lactating goats.

SELF APPLICATOR FLY CONTROL ON CATTLE—(Except dairy animals)

For control of hornflies dilute 1 gal. "Marlate" 2-MR with 4 gals. of Diesel fuel or furnace type oil. Do not use any other type of oil. Use 1 gal. of solution to saturate burlap on "back rubber." soak burlap every two to three weeks.

AGRICULTURAL PREMISES

Insects requiring control measures—houseflies, stableflies, caddises, confused flour beetle, flat-headed grain beetle, granary weevil, hairy fungus beetle, lesser grain-borer, long headed flour beetle, red flour beetle, rice weevil, sawtoothed grain beetle, flat grain beetle, foreign grain beetle and grain moths. Apply the following rates as specified for various areas:
Farm Buildings (barns, milk rooms, pens, stalls, alleys, barnyards, dumps and other outdoor locations)—mix 1 quart "Marlate" 2-MR Insecticide in 2 1/2 gallons of water. Use as a residual spray applying 1 gallon of the prepared spray to 500 sq. ft. Apply as a residual spray to all exposed surfaces, paying attention to all cracks and crevices. Allow bins to air and dry before refilling with grain.

Elevator Tunnels, Gallery Floors, Head Houses—Mix 1 quart "Marlate" 2-MR Insecticide in 2 1/2 gallons of water. Apply 1 gallon of mixture to 500 sq. ft. Clean area thoroughly before spraying. Treat about 3 times per season (summer).

MOSQUITO CONTROL

"Marlate" 2-MR Insecticide is effective for controlling both adult and larva mosquitoes on non-agricultural lands such as parks, beaches, public dumps and residential areas.

Adult Mosquitoes—Thermal fogging is effective if applied during the active periods of the adults (morning and evening). Avoid fogging when winds exceed 5 miles per hour as its effectiveness is reduced.

For fogging large areas, prepare a 100 gallon batch of spray material. Mix 3 1/2 gallons of "Marlate" 2-MR Insecticide in 96 1/2 gallons of light fuel oil (No. 2 diesel, HAN, etc.) and apply 5 to 7 gallons per acre.

For fogging smaller areas, mix 1 pint of "Marlate" 2-MR Insecticide in 4 7/8 gallons of light fuel oil (5 gallon batch) and apply 5 gallons per acre.

Adult Mosquitoes—Mist blowers or sprayer equipment require mixing of the "Marlate" 2-MR Insecticide with water. For mist blowers or sprayers, mix 4 gallons of "Marlate" 2-MR Insecticide with 96 gallons of water and apply 5 to 7 gallons per acre.

For spraying smaller areas, mix 1 1/2 pints of "Marlate" 2-MR Insecticide in 4 7/8 gallons of water (5 gallon batch) and apply 5 gallons per acre.

For aerial application over large land masses at low volume, mix 1 gallon of "Marlate" 2-MR Insecticide in 15 gallons of light fuel oil and apply approximately 4 gallons per acre.

For mosquito larval control, mix 1 pint of "Marlate" 2-MR Insecticide in either light fuel oil or water to make 10 gallons of spray. Apply to 1 acre of marshland, swamp or low lying areas. Thorough, even coverage is essential for effective control. Repeat application as infestation warrants.

Apply around the perimeter of lakes, streams, ponds, swamps, marshes, estuaries and other areas of standing water (intermittently flooded areas, stagnant water, temporary rain pools, sloughs and ponds) where mosquito larvae are to be controlled.

NOTE: This product is toxic to fish. Keep out of lakes, streams and ponds. Rates recommended on this label are toxic to shrimp and crabs. Do not apply where these species are an important resource. Do not apply to water drainage areas where runoff or flooding will contaminate ponds.

FOREST AND SHADE TREES

For control of the following insects, use a 6% methoxychlor solution with a mist blower at rates recommended in the following table.

Mix 1 gallon "Marlate" 2-MR Insecticide per 3 gallons of water for mist blower solution, or 1 to 2 quarts of "Marlate" 2-MR Insecticide per 3 gallons of water for mist blower solution, or 1 to 2 quarts of "Marlate" 2-MR Insecticide per 100 gallons of water for conventional sprayer.

Insects	Pints 6% Solution Per Tree				Gallons 6% Solution Per Acre
	Tree Height				
	35-50'	50-65'	65-80'	80-120'	
Cankerworm, Eastern Tent Caterpillar, Sawfly, Spittlebug, Tent Caterpillar, Leafhopper, Leaf Roller, Rose Chafer, Rose Slug, Blister Beetle, Cucumber Beetle, Fall Armyworm, Flea Beetle, Inchworm, Tussock Moth, Water Caterpillar, Mountain Ash Sawfly, Maple Trumpet Skeletonizer, Oak Skeletonizer, Red Headed Pine Sawfly, White Peach Scale,					
White Pine Weevil	2	2	3	4	2
Elm Leaf Beetle	2	4	6	8	
Fall Webworm	.5	1	2	2	1
Forest Tent Caterpillar	1	1.5	2	3	2
Gypsy Moth	.5	1	2	2	2
Japanese Beetle	2	4	4	4	3
Lace Bug (Oaks & Sycamore)	1.5	2	3	4	2
May Beetle	1.5	2	3	4	2

Control of Elm Bark Beetle (Vectors of Dutch Elm Disease)—Apply first application before elm flowers or leaves sprout using a 1 1/2% spray solution of "Marlate" 2-MR Insecticide with a mist blower, or a 2% spray solution in a conventional sprayer. This application will usually be applied in March in the Southern States and in April in the Northern States. Use 2 to 3 gallons of spray solution, wetting all surfaces thoroughly.

Second application should be made 2 1/2 to 3 months after the first treatment. Reduce the active ingredient to 6% for mist blower, and 1% for conventional sprayer. Cover all leaf and back surfaces.

Control of Elm Leafhopper (Vectors of Elm Phloem Necrosis)—Apply first application when elm leaves are fully grown. Use a 6% spray solution of "Marlate" 2-MR Insecticide with a mist blower, or a 1% spray solution in a conventional sprayer. This application will be made in May in the Southern States and in June in the Northern States. Thoroughly cover all leaf surfaces. When second flush of growth appears, usually 1 to 2 months after first treatment, repeat the above application covering all leaf surfaces thoroughly.

In those states where both the elm leafhopper and elm leaf beetle are known to be present a three spray schedule will provide effective control. Apply protective spray before elm flowers or leaves sprout, follow with second protective spray 2 1/2 to 3 months after the first. Then apply the third protective spray about 1 to 3 months after the second protective spray. Be sure to thoroughly cover all bark and foliar surfaces with each protective spray.

Preparation of Spray Solutions—12% spray—dilute 1 part "Marlate" 2-MR Insecticide with 1 part water. 6% spray—dilute 1 part "Marlate" 2-MR Insecticide with 3 parts water. 2% spray—dilute 1 part "Marlate" 2-MR Insecticide with 12 parts water. 1% spray—dilute 1 part "Marlate" 2-MR Insecticide with 24 parts water.

AGRICULTURAL CROPS

Apply at recommended rates as a spray with ground or aerial equipment to thoroughly cover foliage and fruit. Mix in water using the appropriate volume of water for equipment to be used (for example, 2 to 3 qts. per acre for aircraft or ground concentrate sprayers and greater amounts for high volume sprayers).

Begin application at first sign of infestation (for fruits, begin at petal fall) and repeat at 7 to 14 day intervals or as needed. Do not apply to crops within the number of days specified before harvest or grazing as shown by RHL (preharvest limitation).

FORAGE CROPS: (Alfalfa, clover, grass, soybean, cowpea and peanut forage). Apply the following rates of "Marlate" 2-MR Insecticide in 15 to 30 gallons of water per acre. Apply every 10 to 14 days, or as needed. Do not apply during blooming. No application later than 7 days before harvesting or grazing.

Leafhopper, spittlebug	1 1/2 qts. per acre
Alfalfa caterpillar, flea beetle	1 1/2 to 2 qts. per acre
Alfalfa weevil (larvae), alfalfa webworm,	

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fall armyworm, clover leaf weevil, Mexican bean beetle, pea weevil, soybean caterpillar, velvet bean caterpillar 2 to 3 qts. per acre

Cowpea curculio, Japanese beetle 3 qts. per acre

Armyworm 3 to 4 qts. per acre

*For pea aphid and as an alternate program for control of alfalfa weevil (larvae), add Malathion (emulsifiable) at 1 to 1 1/2 lbs. active ingredient per acre.

FRUITS

Apple, Pear, Quince—Apple Maggot, Codling Moth, Japanese Beetle, Plum Curculio, Tent Caterpillar 7 1/2 to 15 qts. per acre or 2 to 3 qts. per 100 gals. water at 350 to 500 gals. per acre per 7 days.

Apricot, Cherry, Nectarine, Peach, Plum, Prune—Cherry Fruitworm, Cherry Fruitflies, Japanese Beetle, Plum Curculio, Rose Chafer, Tent Caterpillar, Leafhopper, Pear Slug, Cankerworms, 7 1/2 to 15 qts. per acre or 2 to 3 qts. per 100 gals. water at 350 to 500 gals. per acre. PHL 7 days for cherries, plums, prunes. 21 days for apricots, nectarines, peaches.

Blueberry, Cranberry, Currant, Gooseberry—Japanese Beetle, Cranberry Fruitworm, Leafhoppers, San Jose Scale Crawlers; 2 to 6 qts. per acre or 2 to 3 qts. per 100 gals. water at 100 to 200 gals. per acre, PHL 14 days.

Blackberry, Loganberry, Raspberry, Boysenberry, Dewberry, Youngberry, Strawberry—Rose Chafer, Strawberry Weevil, Flea Beetles, Omnivorous Leaf Tier, Spittlebugs, Japanese Beetle, 2 to 3 qts. per acre or 2 to 3 qts. per 100 gals. water at 100 to 200 gals. per acre, PHL 14 days.

Grape—Berry Moth, Grape Leafhopper, Japanese Beetle, Leaf Skeletonizer, Rose Chafer, 2 to 6 qts. per acre or 2 to 3 qts. per 100 gals. of water at 100 to 200 gals. per acre. PHL 14 days

VEGETABLES

For the control of the following insects apply 2 to 4 quarts of "Marlate" 2-MR insecticide in 25 gallons of water per acre. Thoroughly spray upper and lower foliage surfaces as well as the fruit. Begin treatment at first sign of insect infestation and repeat at 7 to 10 day intervals as infestation warrants.

Crop	Insects	Interval to Harvest
Potatoes	Flea beetle, blister beetle,	0 days
Sweet Potatoes,	Colorado potato beetle, leaf-	
Asparagus	Asparagus beetle	3 days If applied later remove residues by washing or blanching spears
Bean	Cowpea curculio, corn earworm, cucumber beetles, fall armyworm, alfalfa and garden webworms, flea beetles, Mexican bean beetle, potato leafhopper, bean leaf beetle, Japanese beetle, rose chafer	3 days Do not feed treated vines to livestock
Black eyed peas	Cowpea curculio, corn earworm, cucumber beetles, fall armyworm, alfalfa and garden webworms, flea beetles, Mexican bean beetle, potato leafhopper, bean leaf beetle, Japanese beetle, rose chafer	
Cabbage	Imported cabbage worm, cross-striped cabbage worm, blister beetles, flea beetles, leafhoppers, alfalfa looper, fall armyworm, Japanese beetle	3 days
Beets	Blister beetles, flea beetles, Leafhoppers, alfalfa looper, fall armyworm, Japanese beetle, imported cabbageworm	14 days
Carrots	Blister beetles, flea beetles, leafhoppers, alfalfa looper, fall armyworm, Japanese beetle, imported cabbageworm	
Cantaloupes	Melon worms, squash vine borer, fall armyworm, cucumber beetles, flea beetles	7 days
Cauliflower	Cross-striped cabbage worms, blister beetles, flea beetles, leafhoppers, alfalfa loopers, fall armyworms, Japanese beetles, imported cabbage worms	
Cucumbers	Squash vine borers, fall army	

Eggplants	worms, cucumber beetles, flea beetles, Blister beetles, flea beetles, leafhoppers, alfalfa loopers, fall armyworms, Japanese beetles, imported cabbageworms, cross-striped cabbageworms	7 days
Kohlrabi	Blister beetles, flea beetles, leafhoppers, alfalfa loopers, fall armyworms, Japanese beetles, imported cabbageworms, cross-striped cabbage worms	
Pumpkins	Squash vineborers, fall armyworms, cucumber beetles, flea beetles	
Radishes	Blister beetles, flea beetles, leafhoppers, alfalfa loopers, fall armyworms, Japanese beetles, imported cabbageworms	
Rutabaga	Blister beetles, flea beetles, leafhoppers, alfalfa loopers, fall armyworms, Japanese beetles, imported cabbageworms	
Squash	Squash vine borers, fall armyworms, cucumber beetles, flea beetles	
Summer Squash	Squash vine borers, fall armyworms, cucumber beetles, flea beetles	
Tomatoes	Blister beetles, Colorado potato beetles, flea beetles, leafhoppers, fall armyworms, tomato fruitworms, Japanese beetles, tomato hornworms	
Corn (Field & Sweet)	Fall armyworms, flea beetles, Japanese beetles, rose chafer	
Corn (Sweet)	Corn earworms—apply to silks as soon as they appear. Make 3 to 4 applications at 2 to 3 day intervals as infestation warrants. Re-apply immediately after a rain.	
Broccoli	Blister beetles, flea beetles, leafhoppers, alfalfa loopers, fall armyworms, Japanese beetles, imported cabbageworms, cross-striped cabbageworms	14 days
Brussel Sprouts	Blister beetles, flea beetles, leafhoppers, alfalfa loopers, fall armyworms, Japanese beetles, imported cabbageworms, cross striped cabbageworms	
Collards	Blister beetles, flea beetles, leafhoppers, alfalfa loopers, fall armyworms, Japanese beetles, imported cabbageworms	
Kale	Blister beetles, flea beetles, leafhoppers, alfalfa loopers, fall armyworms, Japanese beetles, imported cabbageworms	
Lettuce	Blister beetles, flea beetles, leafhoppers, alfalfa loopers, fall armyworms, Japanese beetles, imported cabbageworms, cross-striped cabbageworms	
Spinach	Blister beetles, flea beetles, leafhoppers, alfalfa loopers, fall armyworms, Japanese beetles, imported cabbageworms	
Turnips	Blister beetles, flea beetles, leafhoppers, alfalfa loopers, fall armyworms, Japanese beetles, imported cabbageworms	

ROSES, FLOWERS, EVERGREENS, SHRUBS
 Andromeda, Arborvitae, Asters, Azaleas, Begonias, Bird's eye, Carnations, Camellias, Chrysanthemums, Coleus, Dahlias, Delphiniums, Euonymus, Geraniums, Gladiolus, Juniper, Marigolds, Nasturtium, Rhododendron, Rose, Snap Dragon, Texas, and Zinnia

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For control of:

Flea beetles, blister beetles, Japanese beetles, leafhoppers, flea hoppers, laceworms, cankerworms and rose chafer.

Directions:

Use 1 to 2 tablespoons per gallon of water. Spray thoroughly to cover all plant surfaces. Repeat at 7 to 14 day intervals as needed to maintain effective control. For acreage, use 2 to 3 qts. per 100 gallons of water at 100 to 200 gallons per acre.

ORNAMENTALS such as BIRCH, DOGWOOD, ELM, HOLLY, MAGNOLIA, MAPLE, OAK, PINE, SYCAMORE

For Control of:

Aphids, bagworms, four-lined bug, rose leafhoppers, potatoe leafhoppers, birchleaf miners, boxwood leafminers, mealy bugs, spider mites, European red mites, two-spotted mites, European pine shoot moths, scale insects such as black, Euonymus, oystershell, scurfy and soft scales, thrips, whiteflies, walnut caterpillars, pine needle miners, juniper webworms, leaf tiers, linden loopers, pine sawflies, spruce sawflies, larch sawflies, hemlock loopers, larch casebearers, imported willow leaf beetles, club gall.

Directions:

Use 1 to 2 tablespoons per gallon of water. Spray thoroughly to cover all plant surfaces. Repeat at 7 to 14 day intervals as needed to maintain effective control. For acreage, use 2 to 3 qts. per 100 gallons of water at 100 to 200 gallons per acre. Do not spray Chinese elms, Japanese maples, red maples or redbuds, as foliage may be damaged.

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