

MILLS, ELEVATORS AND GRAIN STORAGE BINS: For the control of exposed stored grain weevil, moths and confused flour beetle, harbored in cracks, crevices, trash and equipment, apply residual spray by diluting 1 gallon of Methoxychlor E-2 with 4 gallons of water. Make application when facilities are empty and after they have been cleaned to prevent infestation of incoming grain to prevent infestation reaching clean grain. Grain already infested should be fumigated with a good grain fumigant. Avoid spraying grain or food products or directly into food processing equipment. Apply 2 gallons of diluted solution per 1000 square feet.

DO NOT APPLY WITHIN SEVEN DAYS OF HARVESTING OR GRAZING: For the control of velvet bean caterpillar on soybeans, velvet beans and peanuts, apply 2 quarts per acre in sufficient water to give adequate coverage. Make application when first signs of infestation are noted. Repeat application in 10 days if needed. If two or more applications are made, allow 14 days between last application and harvest.

**FOR CONTROL OF INSECT CARRIERS OF
DUTCH ELM DISEASE
TO CONTROL ELMBARK BEETLE:**

DORMANT TREATMENT: Apply Methoxychlor spray (50 gallons Methoxychlor E-2 with 100 gallons of water) when using a mist blower or apply Methoxychlor spray (8 gallons Methoxychlor E-2 with 100 gallons of water) when using a hydraulic or conventional sprayer any time after the leaves drop in the fall up to the appearance of elm flowers or leaves, usually March in the South, or April in the North. Thoroughly spray all bark surfaces. The average 50 ft. elm will require 2 to 3 gallons of spray mixture when using a mist blower, and about 25 gallons when using a hydraulic sprayer. Spray only when temperatures are above freezing and good spraying conditions prevail.

SUMMER TREATMENT WHEN REQUIRED: Apply 6% Methoxychlor spray (25 gallons Methoxychlor E-2 with 75 gallons water) when using a mist blower or apply a 1% Methoxychlor spray (4 gallons Methoxychlor E-2 with 96 gallons water) when using a hydraulic or conventional sprayer, 2 1/2 to 3 months after appearance of elm flowers or leaves in the spring. Thoroughly cover all leaf and bark surfaces. More spray is required per tree than in dormant period. On warm days white oil should be added to mist blower sprays.

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 20 gals. 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 PHL (preharvest limitation).

FORAGE AND FIELD CROPS

Alfalfa, Clover, Cowpeas, Forage Grasses-leafhopper, Spittlebug: 1 to 2 qts. per acre. Alfalfa Caterpillar, Flea Beetles: 1 1/2 to 2 qts. per acre.

Alfalfa Weevil (larvae), Webworms, Fall Armyworm, Clover Leaf Weevil, Mexican Bean Beetle, Blister Beetles, Cucumber Beetles, 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. PHL: 7 days.

For pea aphid and as an alternate program for control of alfalfa weevil add as an alternate program for control of alfalfa weevil add malathion (emulsifiable liquid) at the rate of 1 to 1 1/4 lbs. active per acre.

PEANUT, SOYBEAN

Velvet Bean Caterpillar, Mexican Bean Beetle, Japanese Beetle, Blister Beetle, Garden Webworm, Alfalfa Webworm, Cowpea Curculio, Leafhoppers, Fall Armyworm: 2 to 6 qts. per acre. PHL: 7 days.

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. PHL: 7 days.

Apricot, Cherry, Nectarine, Peach, Plum, Prune - Cherry Fruitworm, Cherry Fruitflies, Japanese Beetle, Plum Curculio, Rose Chafer, Tent Caterpillar, Cankerworms: 7 1/2 to 15 qts. per acre, or 2 to 3 qts. per 100 gals. water at 350 to 550 gals. per acre. PHL: 7 days for cherries, plums. Apply at petal fall and every 10 to 14 days thereafter as long as local conditions warrant.

Mix 1 gallon Methoxychlor E.C. per 3 gallons of water for mist blower solution, or 1 to 2 quarts of Methoxychlor E.C. per 100 gallons of water for conventional sprayer.

	Pints	6% Solution Per Tree	Gallons 62
	35-50	50-65	65-80
Insects			
Caterworm	2	2	3
Eastern Tent Caterpillar	2	2	3
Elm leaf beetle	2	4	6
Fall webworm	0.5	1	2
Forest tent caterpillar	1	1.5	2
Gypsy moth	0.5	1	2
Japanese beetle	2	4	6
Lace bug (Oaks & Sycamore)	1.5	2	3
May beetle	1.5	2	3
Tussock moth	2	2	3

Control of Elm Bark Beetle (Vectors of Dutch Elm Disease) - Apply first application before elm flowers or leaves sprout using a 12% spray solution of Methoxychlor E.C. 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 bark 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 Methoxychlor E.C. 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 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. Be sure to thoroughly cover all bark and foliar surfaces with each protective spray.

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. PHL: 14 days.

VEGETABLES

Asparagus - Asparagus Beetles: 2 to 4 1/2 qts. per acre. PHL: 3 days. If applied within 3 days of harvest, remove residues by washing or blanching.

Beans, Balck-eyed Peas - Corn Earworm, Cucumber Beetles, Fall Armyworm, Webworm, Flea Beetles, Mexican Bean Beetle, Potato Leafhopper, Bean Leaf Beetle, Japanese Beetle: 2 to 6 qts. per acre. PHL: 3 days; apply within 3 days of harvest in vines are not used for feed or forage. Do not feed treated vines to livestock.

Brussels Sprouts, Beets, Broccoli, Cabbage, Carrot, Cauliflower, Collard, Eggplant, Kale, Kohlrabi, Lettuce, Pepper, Radish, Rutabaga, Spinach, Turnip - Blister Beetles, Flea Beetles, Leafhoppers, Alfalfa Looper, Fall Armyworm, Japanese Beetle, Imported Cabbageworm: 2 to 4 1/2 qts. per acre. PHL: 14 days, except: Cauliflower and rutabaga, 7 days; cabbage 3 days; eggplant, kohlrabi and pepper, 7 days (1 day at 3 1/2 qts. per acre or less).

Corn (Field and Sweet) - Fall armyworm, Armyworm, Japanese Beetle, Flea Beetles: 2 to 4 1/2 qts. per acre. PHL: 7 days.

Peas - Alfalfa Looper, Pea Weevil (to foliage early bloom before eggs are laid and again 5 days later), Bean leaf Beetle: 2 to 6 qts. per acre. PHL: 7 days.

Potato (Irish) - Colorado Potato Beetle, Flea Beetles, Fall Armyworm, Leafhoppers, Blister Beetles: 2 to 4 1/2 qts. per acre. PHL: None.

Sweet Potato, Yam - Fall Armyworm, Flea Beetles - 1 to 4 1/2 qts. per acre. PHL: None.

Tomato - Colorado Potato Beetle, Flea Beetles, Fall Armyworm, Leafhoppers, Blister Beetles: 2 to 6 qts. per acre. PHL: 1 day for rates of 3 1/2 qts. and below, otherwise, 7 days.

BUILDINGS & STORAGE AREAS

Contact and Space Spray for Flies and Mosquitoes - To reduce populations of houseflies and mosquitoes in farm buildings, in barnyards, in alleys, on dumps and other outdoor locations dilute 1 pt. with 2 1/2 gallons of water and apply in space by mist blower or directly to flies by hydraulic sprayer, hand sprayer or cylindrical pressure sprayer. Care should be taken to avoid contamination of milk handling equipment, feedstuffs, feed troughs and watering receptacles. Dairy animals should not be present while spraying.

GRAIN STORAGE BINS, ELEVATOR TUNNELS (GALLERY FLOOR, HEADHOUSE), PEANUT WAREHOUSES, FREIGHT CARS, GRAIN TRUCKS, SHIPS HOLDS

Aids in control of cadelle, flat-headed grain beetle, saw-toothed grain beetle, lesser grain borer, red flour beetle, long-headed flour beetle, rice weevil, granary weevil, confused flour beetle, foreign grain beetle and hair fungus beetles: Use 1 gal. in 10 gals. water and apply 2 gals. spray per 1,000 sq. ft. treat when empty. Do not add grain to bin for at least 24 hours or until walls have dried.

MOSQUITO BREEDING AREAS

Apply in undiluted or diluted form by ground sprayer or aircraft to known mosquito breeding sites.

Prehatch Larvicide - Make a single application during the winter months at 1 to 2 qts. per acre. Larvicide - Apply as needed during the spring and summer at 3 1/2 to 2 pints per acre.

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.

FOREST AND SHADE TREES

For control of the following insects, use a 6% (1 gal. per 3 gal. water) methoxychlor solution with a mist blower at rates recommended in the following table:

7C 1

Mr. David Lichtenwalter
Mid America Chemical Co., Inc.
402 South 5th Street
Leavenworth, KS 66048

Dear Mr. Lichtenwalter:

Subject: Methoxychlor D-2
EPA Registration No. 36480-15
Your Application Dated July 29, 1982

The amendment referred to above, submitted in connection with registration under FIFRA sec. 3(c)(7)(A), is acceptable provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data.

2. Submit five (5) copies of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 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.

Sincerely yours,

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

Enclosure

TS-767:JSEllenberger:DCR-28960:WANG-1058C:lwj:Raven:479-2013:11/05/82
REVISED:ELLENBERGER:DCR-28967:WANG-1236C:pjb:11/19/82

**PRECAUTIONARY
STATEMENTS
HAZARDS TO HUMANS
AND DOMESTIC ANIMALS
CAUTION**

Harmful if swallowed. May be absorbed through skin. Do not breathe spray mist. Do not get in eyes, on skin or on clothing. Wash thoroughly after handling. Avoid contamination of food and feed. Keep out of reach of domestic animals. Do not use on humans, household pets, or livestock. Do not permit children or pets to go onto the sprayed grass until spray has completely dried.

ENVIRONMENTAL HAZARDS

This product is toxic to fish, birds, and other wildlife. Birds and other wildlife in treated areas may be killed. Do not apply directly to water. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment, or disposal of wastes. Apply this product only as specified on this label.

This pesticide is highly toxic to bees exposed to direct treatment or to residues remaining on the treated area. Do not apply when bees are actively visiting the crop, cover crop, or weeds blooming in the treatment area. Applications should be timed to provide the maximum possible interval between treatment and the next period of bee activity.

**PHYSICAL OR CHEMICAL
HAZARDS**

Do not use near open flame or heat.

DIRECTIONS FOR USE

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

STORAGE AND DISPOSAL

Prohibitions: Do not contaminate water, food, or feed by storage or disposal.
Pesticide Disposal: Pesticide spray mixture or residue that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticides or buried in a safe place away from water supplies.
Container Disposal: Triple rinse (or equivalent) and offer for recycling, reconditioning, or disposal in approved landfill or bury in a safe place.
General: Consult Federal, state or local disposal authorities for approved alternative procedures.

ANIMAL USES: To control hornflies and lice on beef cattle, hogs, and horses, dilute 1 pint of Methoxychlor E-2 in 1 gallon of water or 1 gallon of Methoxychlor E-2 in 50 gallons of water. Agitate thoroughly and apply as dip or with an effective sprayer using a driving spray of medium sized droplets (1 to about 2 quarts of spray per beef animal and a proportionate amount for smaller animals). Repeat treatment as needed for continued control. For the control of sheep and goats, use the above solution as a dip making sure each animal is held in vat at least 2 minutes and submerged twice during dipping.

Do not apply to lactating goats. Do not apply to dairy cattle. Do not dip calves under 1 month of age.

To control the type fly problem on automatic cattle feeders, dilute 1 quart of Methoxychlor E-2 in 1 gallon of water or 1 quart of Methoxychlor E-2 in 50 gallons of water. Apply this solution to saturate the interior of the automatic feeder. Repeat every two weeks or as necessary for continued control. An insecticide solution of the concentration of type fly problem with a light feed of water as a treatment with the Methoxychlor E-2 solution may be used. Do not use this solution for control of house flies or other pests.

RESIDUAL SPRAY: Dilute 1 quart of Methoxychlor E-2 in 1 gallon of water and apply at the rate of 1 quart per 100 square feet of area. Wash thoroughly with water after treatment. Do not use this solution on surfaces they frequent, such as walls, floors, and feed troughs. Do not use this solution for control of house flies or other pests.

Do not use this solution for control of house flies or other pests on surfaces they frequent, such as walls, floors, and feed troughs. Do not use this solution for control of house flies or other pests.

MACCO

**METHOXYCHLOR
E-2**

Contains Methoxychlor 2 Lbs. Per Gallon

ACTIVE INGREDIENTS:

Methoxychlor* Technical 25.0%
Xylene 71.0%

INERT INGREDIENTS 6.0%
100%

Equivalent to 22% 2,2-bis (p-methoxyphenyl) -1,1,1-trichloroethane and 3% other isomers and related compounds.

DEC 1 1982

Under the Federal Insecticide, Fungicide, and Rodenticide Act, this product is registered under EPA Reg. No. 36480-15.

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

STATEMENT OF PRACTICAL TREATMENT

Call a physician immediately. Gastric lavage is indicated if material was taken internally. DO NOT INDUCE vomiting unless other treatment is not available. Vomiting may cause aspiration pneumonia. If it is necessary to induce vomiting, give victim one or two glass of water and insert finger in back of throat. Repeat until vomit fluid is clear. Do not induce vomiting or give anything by mouth to an unconscious person.

If inhaled - Remove victim to fresh air. Apply respiration if indicated.
If on skin - Wash immediately with soap and water.
If in eyes - Flush eyes with plenty of water. Call a physician immediately.

See side back panels for additional precautionary statements.

NET CONTENTS GALLON

EPA Reg. No. 36480-15

EPA Est. No.

Manufactured by:

MACCO

MID AMERICA CHEMICAL CO., INC.
402 South Fifth Street
Leavenworth, Kansas 66048.