

**CAUTION:**

Keep out of reach of children. May be harmful if swallowed. Avoid contact with skin. Avoid breathing spray mist. Avoid contamination of feed, seed and foodstuffs.

This product is toxic to fish. Keep out of lakes, streams, or ponds. 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. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where these are important resources. Apply this product only as specified on this label.

**CONTAINER DISPOSAL:** Do not reuse empty container. Destroy by perforating or crushing. Bury or discard in a safe place away from water supplies. Return drums to reconditioner or destroy.

**GENERAL INFORMATION**

Methoxychlor 2 E.C. 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 either high or low volume application equipment.

When applying Methoxychlor 2 E.C. 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.

**CAUTION:** This product is toxic to bees and should not be applied when bees are actively visiting the area being treated.

**DIRECTIONS FOR USE**

**FORAGE CROPS:** Alfalfa, clover grass, soybean, cowpea and peanut forage — Apply the following rates of Methoxychlor 2 E.C. 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.

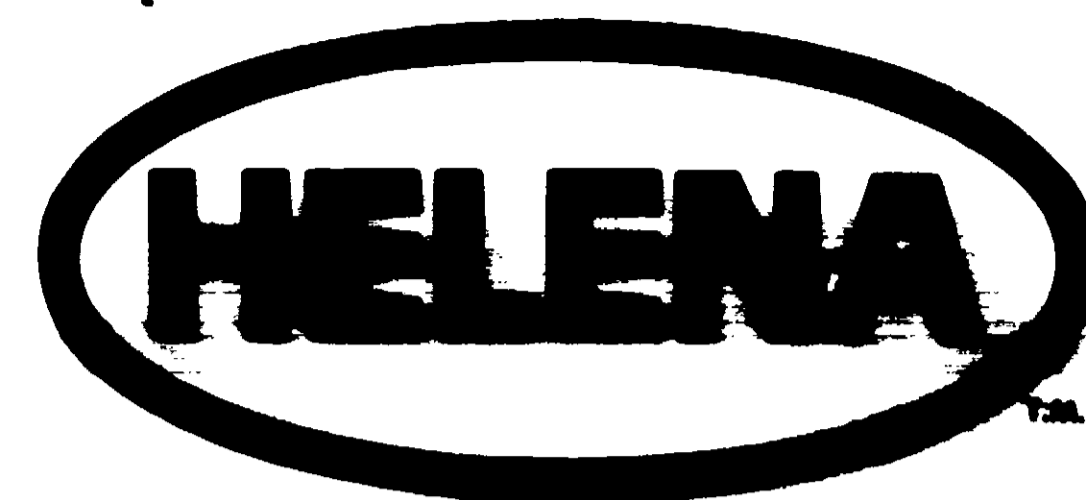
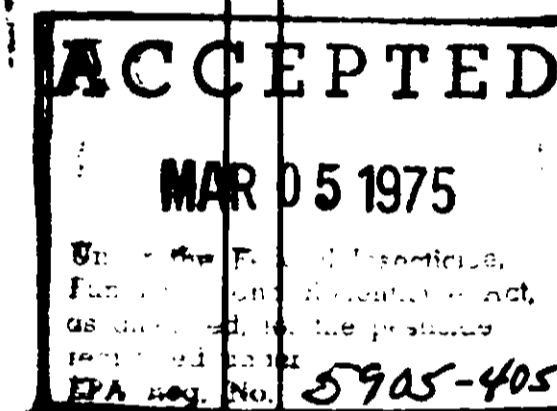
Leafhopper, spittlebug	1 to 2 qts. per acre
Alfalfa caterpillar, flea beetle	1 1/2 to 2 qts. per acre
Alfalfa weevil (larvae)*, alfalfa webworm, fall armyworm, clover leaf weevil, Mexican bean beetle, pea weevil, soybean caterpillar, velvet bean caterpillar	2 to 3 qts. per acre
Cowpea curculio, Japanese 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.

**VEGETABLES:** For control of the following insects apply 2 to 4 quarts of Methoxychlor 2 E.C. 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, Colorado potato beetle, leafhopper	0 days
Asparagus	Asparagus beetle	7 days if applied later to remove residues by washing or blanching spears.
Beans	Bean leaf beetle, corn earworm, fall armyworm, Japanese beetle, leafhopper, rose chafer, Mexican bean beetle	3 days
Black-eyed peas Cabbage	Cowpea curculio Imported cabbage worm, cross-striped cabbage worm, flea beetle	3 days
Beets	Blister beetle, flea beetle	7 days, 14 days if tops are to be used as food or feed.
Carrots	Leafhopper	

CROP	INSECTS	INTERVAL TO HARVEST
Cantaloupes	Cucumber beetle, melon worm	7 day
Cauliflower	Imported cabbage worm, cross-striped cabbage worm, flea beetle	
Cucumber	Cucumber beetle	
Eggplant	Flea beetle, leafhopper	
Kohlrabi	Flea beetle	
Melons	Cucumber beetle, melon worm	
Peas	Pea weevil	
Peppers	Flea beetle, Leafhopper, rose chafer	
Pumpkins	Cucumber beetle, squash vineborer	
Radishes	Flea beetle	
Rutabaga	Flea beetle	
Squash	Cucumber beetle, squash vineborer	
Tomatoes	Blister beetle, Colorado potato beetle, flea beetle, leafhopper, fall armyworm, tomato fruitworm, Japanese beetle, tomato hornworm	
Corn (field & sweet)	Fall armyworm, flea beetle, Japanese beetle, rose chafer	
Corn (sweet)	Corn earworm - 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	Imported cabbage worm, cross-striped cabbage worm, flea beetle	14 days
Brussels sprouts	Imported cabbage worm, cross-striped cabbage worm, flea beetle	
Collards	Flea beetle	
Kale	Flea beetle	
Turnips	Flea beetle	



# METHOXYCHLOR 2 E. C. Insecticide

FOR CONTROL OF VARIOUS INSECTS ON LIVESTOCKS, FORAGE CROPS, AGRICULTURAL PREMISES, FARM BUILDINGS, GRAIN STORAGE BINS, ORNAMENTALS AND SHADE TREES

DO NOT USE, POUR, SPILL OR STORE NEAR HEAT OR OPEN FLAME.

This product contains 2 lbs. technical Methoxychlor per gallon.

**ACTIVE INGREDIENTS:**

Methoxychlor, technical\* ..... 25.0%  
Xylene ..... 71.0%

**INERT INGREDIENTS:** ..... 4.0%

**TOTAL** ..... 100.0%

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

**LIVESTOCK**

**Beef Cattle:** Hornflies, and lice - 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):** Hornflies and Lice - 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.

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

**AGRICULTURAL PREMISES:** Insects requiring control measures - Larval and adult stages of house flies, stable flies, cadellies, confused flour beetles, flat-headed grain beetles, hairy fungus beetles, long-headed flour beetles, red flour beetles, saw-toothed grain beetles, Indian meal moths, and Mediterranean flour moths; adult and first instar of lesser grain borers and Angoumois grain moths; adult stage of granary weevils and the rice weevil complex. Apply the following rates as specified for various areas.

**KEEP OUT OF REACH OF CHILDREN  
CAUTION: SEE SIDE PANEL FOR ADDITIONAL  
CAUTION STATEMENTS**



101574



# METHOXYCHLOR

## 2 E. C.

### Insecticide

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STORAGE CROPS, AGRICULTURAL PREMISES, FARM BUILDINGS,  
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**Farm Buildings (Barns, Milk Rooms, Pens, Stalls, Alleys and Dumps)** - Mix 1 quart Methoxychlor 2 E.C. Insecticide in 2 1/2 gallons of water. Use as a residual spray applying 1 gallon of the prepared spray to 500 sq. ft. Repeat applications are required for effective control. Exclude dairy animals while treating barns. Do not contaminate milk, feed or drinking water.

**Grain Storage Bins** - Mix 1 quart Methoxychlor 2 E.C. Insecticide in 2 1/2 gallons of water. Apply 1 gallon of mixture 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, 2 to 4 weeks.

**Elevator Tunnels, Gallery Floors, Head Houses** - Mix 1 quart Methoxychlor 2 E.C. 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:** Methoxychlor 2 E.C. Insecticide is effective for controlling both adult and larval 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 Methoxychlor 2 E.C. 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 Methoxychlor 2 E.C. Insecticide in 4 7/8 gallons of light fuel oil (5 gallons per acre).

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

For spraying smaller areas, mix 1 1/2 pints of Methoxychlor 2 E.C. 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 Methoxychlor 2 E.C. Insecticide in 15 gallons of light fuel oil and apply approximately 4 gallons per acre.

For mosquito larval control, mix 1 pint of Methoxychlor 2 E.C. 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 only to known mosquito breeding sites.

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

PINTS 6% SOLUTION PER TREE  
TREE HEIGHT

INSECTS	35-50	50-65	65-80	80-120	Gallons 6% Solution Per Acre
Cankerworm	2	2	3	4	2
Eastern tent caterpillar	2	2	3	4	2
Elm leaf beetle	2	4	6	8	
Fall webworm	5	1	2	2	1
Forest tent caterpillar	1	2	2	3	2
Gypsy moth	5	1	2	2	2
Japanese beetle	2	4	4	4	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 2 E.C. 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 to 3 months after the first treatment. Reduce the active ingredients to 1% 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 2 E.C. Insecticide with a mist blower, or a 1% spray solution in a conventional sprayer. This application will be made in May in 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 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 Methoxychlor 2 E.C. Insecticide with 1 part water. 6% spray - dilute 1 part Methoxychlor 2 E.C. Insecticide with 3 parts water. 2% spray - dilute 1 part Methoxychlor 2 E.C. with 12 parts water. 1% spray - dilute 1 part Methoxychlor 2 E.C. Insecticide with 24 parts water.

**WARRANTY AND LIMITATION OF DAMAGES.** Helena Chemical Company warrants that this material conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use and Conditions of Sale, subject to the inherent risks referred to therein. Helena Chemical Company makes no other express or implied warranty, including any other express or implied warranty of **FITNESS** or of **MERCHANTABILITY** and no agent of Helena Chemical Company is authorized to do so except in writing with a specific reference to this warranty. Any damages arising from a breach of this warranty shall be limited to direct damages, and shall not include consequential commercial damages such as loss of profits or value, etc.