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# AGWAY MALATHION® 25W

Insecticide for fruits, berries, vegetables, outdoor ornamentals and livestock

**ACTIVE INGREDIENT**

0,0 dimethyl dithiophosphate of diethyl mercaptosuccinate .....	25.0%
<b>INERT INGREDIENTS</b> .....	75.0%
<b>TOTAL</b> .....	100.0%

**CAUTION: KEEP OUT OF REACH OF CHILDREN.**

**DIRECTIONS FOR USE**

It is a violation of federal law to use this product in a manner inconsistent with its labeling. Please see attached insert for full directions.

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS:**

**CAUTION:** Harmful if swallowed or inhaled. Avoid breathing of spray mist or dust. Avoid contact with skin. Wash thoroughly after using. Avoid contamination of feed and foodstuffs.

**ENVIRONMENTAL HAZARDS**

This product is toxic to fish. Do not contaminate any body of water.

This product is highly toxic to bees exposed to direct treatment or residues on crops. Protective information may be obtained from your Cooperative Agricultural Extension Service.

Do not apply Malathion 25W on certain ferns including Boston, maidenhair and pteris, as well as some species of crassula.

**DISCLAIMER:** Buyer assumes all risks of use, storage or handling not in strict accordance with directions given herewith.

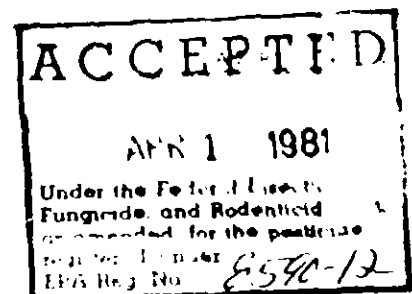
**NOTE:** This pesticide is to be sold ONLY in this original unbroken package.

EPA Reg. No. 8590-12

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**AGWAY INC., CHEMICAL DIVISION  
BOX 4933  
SYRACUSE, NY 13221**

**NET CONTENTS 5 LBS.**



10/9

2

# AGWAY MALATHION<sup>®</sup> 25W

**DIRECTIONS**  
Read these ~~and~~ directions and disclaimer. Use strictly in accordance with label cautions, warnings and directions.

EPA Reg No 8590-12

EPA Est No 8590 PA 1

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APR 1 1981  
Under the  
Fungicide Act of 1948  
as amended, this product  
registered under  
EPA Reg No. 8590-12

2-19

**DIRECTIONS FOR USE**

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

Read these entire directions and disclaimer. Use strictly in accordance with label cautions, warnings and directions

**STORAGE & DISPOSAL**

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

Do not spray on or use on food or feed. If sprayed on or used on food or feed, it should be disposed of in a landfill approved for pesticides or buried in a safe place away from water supplies

Dispose of in an incinerator or landfill approved for pesticide containers or bury in a safe place

Consult Federal, state or local disposal authorities for approved alternative procedures. Open burning is limited open burning

**FRUITS AND BERRIES**

Apply for budmoth, leathoppers, yellow-necked caterpillars and spotted tentiform leaf miner, apply 2 lbs. per 100 gallons for aphids, woolly apple, green apple and rose apple, Putnam scale and San Jose scale apply 2 to 2.5 lbs. per 100 gallons for Forbes scale and mealybug apply 2.5 lbs. per 100 gallons for tent caterpillar apply 2.5 to 4 lbs. per 100 gallons for bagworm, codling moth and plum curculio, and red-headed leaf roller, apply 3 lbs. per 100 gallons

Begin before insect infestations build up and repeat at 10 to 14 day intervals. For control of codling moth start at cover spray and repeat at 10 to 14 day intervals as long as local conditions warrant

Do not apply within 3 days of harvest

**APPLES (Dormant & Delayed Dormant)**

For aphids (woolly apple, green apple and rose apple) apply 2 lbs. plus 1 gal. superior oil (such as Spray Oil 6E [Aquway 70 Spray Oil E])

For mites and red-banded leaf roller, apply 2 lbs. plus 1 gal. superior oil (such as Spray Oil 6E [Aquway 70 Spray Oil E])

For Scales (Forbes, Putnam & San Jose) apply 3 lbs. plus 1 gal. superior oil (such as Spray Oil 6E [Aquway 70 Spray Oil E])

Take full coverage dormant or delayed dormant sprays only

**APRICOTS**

For codling moth, European fruit lecanium, Orange tortrix and soft brown scale apply 4 lbs. per 100 gallons. Do not apply within 7 days of harvest

**BLACKBERRIES, BOYSENBERRIES, DEWBERRIES, LOGANBERRIES & RASPBERRIES**

For aphids & Rose scale apply 2 lbs. per acre

For leathoppers, mites & thrips apply 2 lbs. per 100 gal

For Japanese beetle apply 4 lbs. per 100 gal

For Sap beetle (on raspberries only) apply 4 to 5 lbs. per 100 gal

Do not apply within 7 days of harvest on any of the berries listed

**BLUEBERRIES**

For blueberry maggot apply 2 lbs. plus 1 qt. Staley's Sause Base #7 per 1,000 gal. per acre

For cranberry fruitworm apply 2 lbs. per 100 gal

For cherry fruitworm apply 4 lbs. per 200 gal. per acre

For plum curculio & sharp-nosed leathopper apply 6 to 8 lbs. per acre

APR 1 1961  
Under the  
Fungicide  
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EPA Reg. No. 8590-12

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Do not apply within 1 day of harvest except for blueberry maggot control (do not apply within 8 hrs. of harvest)

**CHERRIES**

For black cherry aphid, cherry fruit fly and Japanese beetle apply 2 lbs. per 100 gal.

For forbes scale & San Jose scale apply 2 to 2 1/2 lbs. per 100 gal.

For lesser peach tree borer apply 4 lbs. per 100 gal. For maximum borer control trunk and main branch should be thoroughly sprayed.

Do not apply within 1 day of harvest.

**CHERRIES (Dormant & Delayed Dormant)\***

For aphids & scale insects apply 2 lbs. plus 1 gal. superior oil such as Spray Oil 6E [Agway 70 Spray Oil E] or 3 lbs. plus 1 gal. superior oil such as Spray Oil 6E [Agway 70 Spray Oil E].

\* Make full coverage dormant or delayed dormant sprays only.

**CRANBERRIES**

For black-headed fireworm, cranberry fruitworm, leafhoppers & spotted-winged hoppers apply 2 lbs. per acre. Make thorough applications and repeat as necessary.

Do not apply to wet foliage. Do not apply within 3 days of harvest.

**CURRENTS**

For mites apply 2 lbs. per 100 gal.

For Japanese beetle apply 4 lbs. per 100 gal.

For dormant aphid and imported currant worm apply 8 lbs. per acre.

Do not apply within 3 days of harvest.

**GRAPES\***

For Urosophia apply 4 to 5 lbs. per acre.

For leafhoppers apply 3 to 3 1/2 lbs. per 100 gal.

For Japanese beetle apply 2 lbs. per 100 gal.

\* Marathon 25W may injure Ribier, Italia, Cardinal & Artemis varieties if applied after clusters appear.

**PEACHES**

For aphids, green peach, Black cherry, Black peach, Rusty plum apply 2 lbs. per 100 gal.

For Japanese beetle apply 2 lbs. per 100 gal.

For mites & scale insects on peach, European fruit lecanium and terrapins apply 2 to 2 1/2 lbs. per 100 gal. For maximum scale control apply when crawlers are present.

For oriental fruit moth and gum cures apply 3 lbs. per 100 gal.

For lesser peach tree borer apply 4 lbs. per 100 gal. For maximum borer control trunk and main branch should be thoroughly sprayed.

Do not apply within 1 day of harvest.

**PEACHES (Dormant & Delayed Dormant)\***

For aphids apply 2 lbs. plus 1 gal. superior oils such as Spray Oil 6E [Agway 70 Spray Oil E].

For lesser peach tree borer and scale insects apply 3 lbs. plus 1 gal. superior oil such as Spray Oil 6E [Agway 70 Spray Oil E].

**PEARS**

For aphids apply 2 lbs. per 100 gal.

For forbes scale, mites, San Jose scale & San Jose scale apply 2 to 2 1/2 lbs. per 100 gal.

For mites apply 2 lbs. per 100 gal.

For European fruit lecanium and gum cures apply 3 lbs. per 100 gal.

APR 1 1961  
Under the  
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as amended  
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EPA Reg. No. 29012

4/3/7

5

Start applications at petal fall & repeat at 10 to 14 day intervals as long as local conditions warrant. Do not apply within 1 day of harvest.

**PEARS (Dormant & Delayed Dormant)\***

For aphids, leafrollers & pear psylla apply 2 lbs. plus 1 gal. superior oil such as Spray Oil 6E (Aquway 70 Spray Oil E).

\*Make full coverage dormant or delayed dormant sprays only.

**PLUMS & PRUNES\*\***

For peach plum aphid & minor scale insects apply 2 lbs. plus 1 gal. superior oil such as Spray Oil 6E (Aquway 70 Spray Oil E).

For lesser peach tree borer apply 4 lbs. per 100 gal. of formulation. Do not spray trunk and main branch should be thoroughly sprayed.

Begin applications as infestations start to build up. Do not apply within 3 days of harvest.

**PLUMS & PRUNES (Dormant & Delayed Dormant)\***

For aphids apply 2 lbs. plus 1 gal. superior oil such as Spray Oil 6E (Aquway 70 Spray Oil E).

For scale insects apply 5 lbs. plus 2 gal. superior oil such as Spray Oil 6E (Aquway 70 Spray Oil E).

\*Make full coverage dormant or delayed dormant sprays only.

**STRAWBERRIES**

For aphids & spider mites apply 2 lbs. per 100 gal.

For potato leafhopper, strawberry leaf miner, strawberry root weevil & white flies apply 4 to 6 lbs. per acre.

For field crickets, lygus bugs, spider mites and thrips apply 4 to 8 lbs. per acre.

Do not apply within 3 days of harvest.

**VEGETABLES**

**BEANS (Green, Lima, Navy, Red Kidney, Snap & Wax Beans, Cowpeas & Blackeyed Peas)**

For aphids, cucumber beetle & Japanese beetle apply 5 lbs. per acre. Do not apply within 1 day of harvest.

**CABBAGE & RELATED CROPS (Broccoli, Brussels Sprouts, Collards, Dandelions, Kale, Kohlrabi, Mustard Greens, Parsley, Swiss Chard, Turnips & Watercress)**

For aphids apply 2 lbs. per 100 gal.

For cabbage looper (on cabbage, broccoli, kale, mustard greens & turnips only) apply 2 lbs. per 100 gal.

For diamond back moth (on cabbage, Brussels sprouts, broccoli, collards only) apply 5 lbs. per acre.

For imported cabbage worm (cabbage, broccoli, kale, mustard greens & turnips only) apply 2 lbs. per 100 gal.

For flea beetles (mustard greens only) apply 4 to 5 lbs. per acre.

Use chop pipes to obtain maximum underleaf coverage. Do not apply within 7 days of harvest (3 days on broccoli).

**CARROTS**

For aphids apply 2 lbs. per 100 gal.

For leafhoppers apply 6 lbs. per acre.

**CAULIFLOWER**

For diamond back moth apply 5 lbs. per acre.

**CUCURBITS (Cucumbers, Pumpkin & Squash)**

For pickleworm on squash apply 5 lbs. per acre.

For pickleworm on cucumber apply 6 lbs. per acre.

For cucumber beetle on cucumbers & squash apply 7 lbs. per acre.

APR 2 1961  
Under the  
Fungicide Act  
as amended  
Registration No. 8590-12  
EPA Reg. No.

32/9

6

For squash vine borer on pumpkin and squash apply 7 lbs per acre  
Apply in 50 gal or more of water to obtain maximum coverage  
Apply only when plants are dry. Do not apply to cucumbers & squash  
within 1 day of harvest (3 days on pumpkins)

**ENDIVE (Escarole) & LETTUCE (Head & Leaf)**  
For aphids apply 2 lbs per 100 gal

For mites (endive only) apply 2 lbs per 100 gal

For leafhoppers (lettuce only) apply 5 lbs per acre

Do not apply within 7 days of harvest on endive & head lettuce (14 days on leaf lettuce)

**FALIC**

For aphids & thrips apply 4 lbs per 100 gal

Do not apply within 3 days of harvest

**HORSERADISH**

For aphids apply 2 lbs per 100 gal

Do not apply within 7 days of harvest

**LEeks**

For aphids apply 4 to 5 lbs per acre

For onion maggot flies apply 6 lbs per acre

For thrips apply 8 lbs per acre

Do not apply within 3 days of harvest

**OKRA**

For Japanese beetle apply 5 lbs per acre

For aphids apply 6 lbs per acre

Do not apply within 1 day of harvest

**ONIONS**

For thrips apply 4 lbs per acre

For onion maggots apply 6 lbs per acre

Do not apply within 3 days of harvest

**RADISHES**

For aphids apply 2 lbs per 100 gal

Do not apply within 7 days of harvest

**SHALLOTS**

For aphids & thrips apply 4 lbs per 100 gal

Do not apply within 3 days of harvest

**SWEET CORN**

For cereal leaf beetle apply 3 to 4 lbs per acre

Do not apply within 5 days of harvest

**SWEET POTATOES**

For leafhoppers apply 2 lbs per acre

Do not apply within 3 days of harvest

**TOMATOES, PEPPERS, EGGPLANTS**

For aphids apply 2 lbs per 100 gal

For spider mites on tomatoes & eggplants apply 2 lbs per 100 gal

For tomato russet mites (on tomatoes) apply 2 to 4 lbs per acre

For drosophila (on tomatoes) apply 6 lbs per acre

For maggots (on peppers) apply 6 lbs per acre

Apply before insect build up occurs & repeat as necessary. Do not apply within 3 days of harvest (7 days on tomatoes)

APR 1 1961

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6/9

**FIELD CROPS**

7

**ALFALFA**

For armyworms apply 3 lbs. per acre  
Can be applied up to day of harvest

**BARLEY**

For cereal leaf beetle apply 3 to 4 lbs. per acre  
Do not apply within 7 days of harvest

**CLAMPER**

For aphids, grasshoppers, leafhoppers & mites apply 4 lbs. per acre  
Can be applied up to day of harvest

**CORN (Field & Pop)**

For cereal leaf beetle apply 3 to 4 lbs. per acre  
Do not apply within 5 days of harvest

**GRASS & GRASS HAY**

For aphids & leafhoppers apply 2 lbs. per acre  
For armyworms apply 3 lbs.  
Can be applied up to day of harvest

**GRASS (Barngrass, Canarygrass, Fescue Orchard Grass, Red Top, Timothy, Yellow Foxtail)**

For cereal leaf beetle apply 3 to 4 lbs. per acre  
Can be applied up to day of harvest

**HOPS**

For aphids & mites apply 2 lbs. per acre  
Do not apply within 7 days of harvest

**OATS & RYE**

For winter grain mites apply 1 lb. per acre

Do not apply within 7 days of harvest

**PASTURE & RANGE GRASS**

For aphids & leafhoppers apply 2 lbs. per acre  
For armyworms apply 3 lbs. per acre  
Can be applied up to day of harvest

**POTATOES**

For aphid & leafhoppers apply 2 lbs. per 100 gal

For false chinch bug apply 4 lbs. per acre

For mealybugs apply 6 lbs. per acre

Can be applied up to day of harvest

**WHEAT**

For cereal leaf beetle apply 3 to 4 lbs. per acre

Do not apply within 7 days of harvest

**SOYBEANS**

For Mexican bean beetle apply 6 to 8 lbs. per acre

Do not apply within 3 days of harvest

**SUGAR BEETS**

For aphids & mites apply 5 lbs. per acre

For grasshoppers apply 3 lbs. per acre

Do not apply within 3 days of harvest

**COMMERCIAL GREENHOUSE USES**

**VEGETABLES**

In all cases spray plants thoroughly. Repeat applications as necessary.

APR 1 1961

Under the  
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EPA Reg. No.

70/7

### CUCUMBERS

For aphids, armyworms, cabbage loopers, earwigs, garden flea hoppers, mealybugs, spider mites, thrips & white flies apply 4 to 5 lbs. per 100 gal.

Do not apply to cucurbits unless plants are dry. Do not apply within 1 day of harvest.

### ENDIVE

For aphids, armyworms, cabbage loopers, serpentine leafminers, thrips & whiteflies apply 4 to 5 lbs. per 100 gal.

Do not apply within 7 days of harvest.

### LETTUCE

For aphids, armyworms, cabbage loopers, serpentine leafminers, thrips & whiteflies apply 4 to 5 lbs. per 100 gal.

Do not apply within 7 days of harvest.

### BRASSICAS

For aphids & flea beetles apply 4 to 5 lbs. per 100 gal.

Do not apply within 7 days of harvest.

### TOMATOES

For aphids, armyworms, cabbage loopers, cutworms, Dirosophila, garden flea hoppers, mealybugs, R. set mites, serpentine leaf miners, spider mites, thrips & white flies apply 4 to 5 lbs. per 100 gal.

Do not apply within 1 day of harvest.

### WATERCRESS

For aphids, serpentine leafminers & thrips apply 4 to 5 lbs. per 100 gal.

Do not apply within 7 days of harvest.

## OUTDOOR ORNAMENTALS

### FLOWERS, SHADE TREES, SHRUBS

Injury may occur on ferns, hickory, Viburnum, Lantana, crassula & canaeri Juniper following the use of this product. Slight injury has also been reported on Boston, Pteris & maidenhair ferns, petunias, small leaf spirea, white pine & maples.

For tent caterpillars apply 2 tablespoons per gal.

For aphids, mealybugs, spider mites & white flies apply 2 tablespoons per gal.

For litcher scale apply 3 tablespoons per gal.

For psyllids, lacebugs & pine needle scale apply 4 tablespoons per gal.

For black scale crawlers, Florida Red Juniper, Monterey pine & soft brown scales apply 6 tablespoons per gal.

Apply before insect build up occurs & repeat as necessary.

### LIVESTOCK

#### CATTLE (Beef & Non-Milking)

For horn flies apply 16 to 24 lbs. per 100 gal. (4 to 6 lbs. per 5 gal.) Apply complete coverage spray. Repeat at two week intervals if needed.

For ticks apply 16 lbs. per 100 gal. (4 lbs. per 5 gal.) Apply complete coverage spray. One treatment may be sufficient.

Repeat if needed.

For ticks apply 16 to 32 lbs. per 100 gal. (4 to 8 lbs. per 5 gal.) Apply complete coverage spray. Repeat at two week intervals if needed.

Do not spray on lactating dairy animals or non-lactating dairy animals within 2 weeks of freshening. Do not treat animals under one month of age. May be applied on day of slaughter.

APR 1 1961

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8/9