

**BEST AVAILABLE COPY**

113  
10/12  
10/12

**DUE TO ACUTE TOXICITY**

**RESTRICTED USE PESTICIDE**  
FOR RETAIL SALE AND USE ONLY BE LIMITED TO  
APPLICATORS AND PERSONS UNDER THEIR DIRECT  
SUPERVISION AND ONLY FOR THOSE USES  
COVERED BY THE CERTIFIED APPLICATORS  
CERTIFICATION

**GOWAN AZINPHOS-M 2 EC**  
EMULSIFIABLE INSECTICIDE  
ACTIVE INGREDIENT 34.4% W/W  
O, O-Dimethyl S-(4-hydroxyphenyl) Phosphorothioate 34.4  
(4H)-hydroxyethyl phosphorothioate 12.29  
INERT INGREDIENTS 77.80%  
TOTAL 100.00%  
Gowan Company Distillates

CONTAINS 2 LBS ACTIVE INGREDIENT PER GALLON

**KEEP OUT OF REACH OF CHILDREN**  
**⚠ DANGER-POISON ⚠**  
**⚠ PELIGRO ⚠**

**CAUTION: A GUARANTIA** Grated to English and  
este protección y la etiqueta debe ser  
amparada

**USE OF STORAGE AND AROUND THE HOME ENVIRONMENT**  
**SIDE PANELS OF STATEMENT OF PRACTICAL  
TREATMENT STATEMENT OF PRECAUTIONARY  
STATEMENTS**

Net Contents 1 Gal  
**Gowan Company**

Reg No 1549L P.O. Box 5569  
No 1534Z Yuma AZ 85368-5569

**STATEMENT OF PRACTICAL TREATMENT**  
This pesticide is for use on...  
Wear a protective suit of one or two pieces that covers all parts of the body except the head, hands and feet. Wear chemical resistant gloves and chemical resistant shoes, shoe coverings or boots. Wear a chemical resistant hood during airblast application.  
During application from an enclosed tractor cab or airplane cockpit, other suitable enclosure, the windows are rolled up, long sleeved shirt and long pants may be worn in place of the above protective clothing. Chemical resistant gloves must be available in the cab or cockpit and must be worn while exiting. This clothing is inadequate to protect you during equipment repair, equipment cleaning, re-entry or during pesticide disposal.  
**IMPORTANT! BEFORE REMOVING GLOVES, WASH THEM WITH SOAP AND WATER. ALWAYS WASH HANDS, FACE AND ARMS WITH SOAP AND WATER BEFORE SMOKING, DRINKING, EATING OR TOILETING.**  
After work, take off all clothing and shoes. Shower using soap and water. Do not wear contaminated clothing. Wash protective clothing and protective equipment with soap and water after each use. Respirators must be cleaned and filters replaced according to instructions included with the respirator. Personal clothing worn during use must be laundered separately from household articles. Clothing and protective equipment heavily contaminated or drenched with azinphos methyl must be destroyed according to state and local regulations. **HEAVILY CONTAMINATED OR DRENCHED CLOTHING CANNOT BE ADEQUATELY DECONTAMINATED.**  
During aerial application, human flaggers are prohibited unless in totally enclosed vehicle.

**NOTE TO PHYSICIAN**  
**ANTIDOTE:** No specific antidote is known. Supportive therapy should be given as necessary. The oral route is the most likely route of exposure and may be associated with gastrointestinal symptoms such as nausea, vomiting, diarrhea, and abdominal pain. The oral route may also result in systemic toxicity with symptoms of the central nervous system and the respiratory system. Watch for pulmonary edema. Watch for pulmonary edema. Watch for pulmonary edema. Watch for pulmonary edema. Watch for pulmonary edema.  
**POISON SIGNS (Symptoms):** Irritation of the eyes, nose, throat, and skin. Irritation of the eyes, nose, throat, and skin. Irritation of the eyes, nose, throat, and skin. Irritation of the eyes, nose, throat, and skin.

**PRECAUTIONARY STATEMENTS**  
**HAZARDOUS TO HUMANS AND DOMESTIC ANIMALS**  
**DANGER**  
Irritant to skin and eyes. May be absorbed through the skin. May be breath vapor. Dust or spray may irritate the eyes, nose, and throat. Wash hands, arms, and face thoroughly with soap and water before eating or drinking. Wash all contaminated clothing with soap and water before reuse. Keep children and pets away from treated areas. Do not apply to areas where children or pets may have access through drift. Avoid runoff to water bodies. Do not apply to areas where children or pets may have access through drift. Avoid runoff to water bodies.

**WORK SAFETY RULES**  
Do not use or store near heat or open flame. Do not store in front of space heater or in front of open door. Store between 55°F and 120°F. Do not store adjacent to oils, cosmetics, dishes, furniture or clothing. Do not store near herbicides. Difficult to reconstitute formulation after exposure to cold. In case of fire, do not use water to extinguish.  
**DIRECTIONS FOR USE**  
It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.  
**RE-ENTRY STATEMENTS**  
Do not enter treated areas for 24 hours after application unless appropriate protective clothing is worn as described in the product labeling.  
Because certain states may require more restrictive re-entry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.  
Written or oral warnings must be given to workers who are expected to

handling the pesticide with a closed system, long sleeved shirt and long legged pants may be substituted for the protective suit and the respiratory equipment is waived (for liquid formulations only). WEAR THE FOLLOWING PROTECTIVE CLOTHING DURING APPLICATION: EQUIPMENT REPAIR, EQUIPMENT CLEANING, DURING RE-ENTRY TO TREATED AREA, AND DISPOSAL OF THE PESTICIDE.

Wear a protective suit of one or two pieces that covers all parts of the body except the head, hands and feet. Wear chemical resistant gloves and chemical resistant shoes, shoe coverings or boots. Wear a chemical resistant hood during airblast application.  
During application from an enclosed tractor cab or airplane cockpit, other suitable enclosure, the windows are rolled up, long sleeved shirt and long pants may be worn in place of the above protective clothing. Chemical resistant gloves must be available in the cab or cockpit and must be worn while exiting. This clothing is inadequate to protect you during equipment repair, equipment cleaning, re-entry or during pesticide disposal.

**IMPORTANT! BEFORE REMOVING GLOVES, WASH THEM WITH SOAP AND WATER. ALWAYS WASH HANDS, FACE AND ARMS WITH SOAP AND WATER BEFORE SMOKING, DRINKING, EATING OR TOILETING.**  
After work, take off all clothing and shoes. Shower using soap and water. Do not wear contaminated clothing. Wash protective clothing and protective equipment with soap and water after each use. Respirators must be cleaned and filters replaced according to instructions included with the respirator. Personal clothing worn during use must be laundered separately from household articles. Clothing and protective equipment heavily contaminated or drenched with azinphos methyl must be destroyed according to state and local regulations. **HEAVILY CONTAMINATED OR DRENCHED CLOTHING CANNOT BE ADEQUATELY DECONTAMINATED.**  
During aerial application, human flaggers are prohibited unless in totally enclosed vehicle.

**ENVIRONMENTAL HAZARDS**  
This pesticide is extremely toxic to fish and wildlife. Do not apply directly to water or wetlands (swamps, bogs, marshes and potholes). Do not contaminate water by cleaning of equipment or disposal of wastes. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas.

**PHYSICAL AND CHEMICAL HAZARDS**  
Do not use or store near heat or open flame. Do not store in front of space heater or in front of open door. Store between 55°F and 120°F. Do not store adjacent to oils, cosmetics, dishes, furniture or clothing. Do not store near herbicides. Difficult to reconstitute formulation after exposure to cold. In case of fire, do not use water to extinguish.

**DIRECTIONS FOR USE**  
It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.  
**RE-ENTRY STATEMENTS**  
Do not enter treated areas for 24 hours after application unless appropriate protective clothing is worn as described in the product labeling.  
Because certain states may require more restrictive re-entry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.  
Written or oral warnings must be given to workers who are expected to

enter treated areas or in areas adjacent to treated areas with this product. When written warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written and oral warnings must include the following information: (MANAGER - Area treated with Azinphos Methyl on (date of application). Do not enter without appropriate protective clothing for 24 hours after application. In case of accidental exposure, follow instructions under Statement of Practical Treatment section.

**STORAGE AND DISPOSAL**  
**CONTAMINATE** water, food or feed by storage or disposal of **PESTICIDE DISPOSAL** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. These wastes cannot be disposed of as household waste. Contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative of the nearest EPA Regional Office for guidance.  
**CONTAINER DISPOSAL** Triple rinse (or equivalent). Then offer for recycling where available, or puncture and dispose of in a sanitary landfill, or by other means as approved by State and local authorities.

**CHEMIGATION STATEMENT**  
Do not apply this product through any type of irrigation system.  
**ROTATIONAL CROP STATEMENT**  
Do not plant root crops other than those with registered azinphos methyl uses in azinphos methyl treated soil sooner than 6 months after the last application. Do not plant any other crop other than those with registered azinphos methyl uses in treated soil sooner than 30 days after last application.

**CROP USE DIRECTIONS**  
Use only according to instructions on attached booklet/folder.

**NOTICE ON CONDITIONS OF SALE**  
All representations for use of this product are based upon tests believed to be reliable. The use of this product being beyond the control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of such use. The results to be obtained if not used in accordance with directions or established safe practice. The buyer must assume all responsibility, including injury or damage resulting from its misuse as such or in combination with other materials.

**ACCEPTED**  
10/12/82  
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, this pesticide was registered under EPA Reg. No. 10163-80

# GOWAN AZINPHOS-M 2EC

## DIRECTIONS FOR USE

*Gowan Company*

P.O. Box 5569

Yuma, AZ 85366-5569

(602) 783-8844

EPA Reg. No. 10163-80

**BEST AVAILABLE COPY**

### DIRECTIONS FOR USE

This material is Federal Insecticide, Fungicide, and Plant Regulator Act registered with the EPA.

**MIXING:** Gowan Azinphos-M 2EC is available in 2.5 lb. and 5 lb. forms. An emulsion when diluted with water and is suitable for use in all power-operated ground and aerial sprayers. To mix with water pour the amount of Gowan Azinphos-M 2EC into the amount of water and then agitate. Gowan Azinphos-M 2EC may also be applied undiluted as an ultra-low-volume spray with either ground or aerial equipment that has been adapted and calibrated for ultra-low-volume spraying as described below under "Recommendations for more crops specific".

**DOSAGE:** Use specified dosage of Gowan Azinphos-M 2EC in the amount of water necessary to give complete coverage of foliage. The type of equipment used will determine the concentration required.

**SPRAYING:** Work so windward of harvest operators from drift or mist. When one or more sprays are applied, complete coverage and thorough application are essential for most effective results. Schedule applications in accordance with local conditions. Consult your State Agricultural Extension Service or Experiment Station for specific use information in your area.

### RECOMMENDATIONS FIELD CROPS

**COTTON** (Conventional or Low-Volume Spray): Aphids, Boll Weevil, Borer, Cotton Leafworm, Cotton Leafhopper, Cotton Leafworm, Lygus Bugs, Mites, Thrips—1 pint. Rapid Plant Bug, Tarnished Plant Bug—1 to 2 pints. Stink Bug—2 pints. Bollworm—2 to 4 pints. Apply specified dosage per acre by air or ground equipment

in at least 1 gallon of water. For early season control of Bollworm and Pink Bollworm, use 2 to 3 pints, and for mid- to late-season applications, use 3 to 4 pints. Repeat as necessary. Do not apply within 1 day of picking. If late season applications are made, do not graze livestock on treated areas or use on wastes for feed.

(1) **COTTON** (Ultra-Low Volume Spray): Bollweevil—1/2 to 1 pint. Gowan Azinphos-M 2EC may be used undiluted in any ground or aerial spray equipment that has been adapted and calibrated for ultra-low-volume spraying. Spray machines must be equipped with accepted low-volume devices that will produce droplets within the range of 30 to 100 microns in size. ULV aerial applications should be made at altitudes of 10 to 20 feet. Repeat applications as necessary, but not within 2 days of hand-picking. Cotton may be machine-harvested any time after application. If late season applications are made do not graze livestock on treated areas or use on waste for feed. For early and mid-season control, apply the specified dosage per acre in accordance with local recommendations.

**Diapause Weevil Control:** Hot, Wet—1 pint. The 1-pint per acre rate only is recommended for control of diapausing Boll Weevils. Schedule applications in accordance with local recommendations.

**BARLEY; OATS; RYE; WHEAT:** Cereal Leaf Beetle—1 1/2 to 2 pints per acre. Apply by air or ground equipment in sufficient water for complete coverage but not less than 1 gallon per acre. Do not apply more than once per season. Do not harvest for food, feed, forage, or graze within 30 days of treatment.

**PASTURE GRASSES** (States East of Mississippi River): Grasshopper, Meadow Spittlebugs (Adults)—Apply 2 to 3 pints per acre by air or ground equipment in sufficient water for complete coverage but not less than 1 gallon per acre. Do not apply more than once per cutting. Do not graze or harvest within 16 days of application at the 2 pint rate or 21 days at rates above 2 pints.

**SOYBEANS:** Aphids, Bean Leaf Beetle, Green Cloverworm, Leafhoppers, Leaf Miners, Leaf Rollers, Stink Bugs, Velvet Bean Caterpillar—1 1/2 to 2 pints. Mexican Bean Beetle—2 to 3 pints. Apply specified dosage per acre, by air or ground equipment, in sufficient water to give complete coverage, but not less than 1 gallon per acre. Repeat as necessary. One or two applications of rates up to 2 pints per acre may be made up to 14 days of harvest. For additional applications or for use of rates above 2 pints per acre, do not apply within 45 days of harvest. Do not graze or feed treated vines to livestock.

**SUGARCANE** (Conventional Spray—Florida, Louisiana and Texas Only): Sugarcane Borer—Apply 3 pints per acre by air, using a minimum of 2 gallons of water per acre. For best results, applications should be made at approximately cane-top level, and not more than 10 feet above cane-top level. Do not apply more than 6 times per season, or within 30 days of harvest. Because from sugarcane treated with Gowan Azinphos-M 2EC may be used for feed of cattle, goats and sheep. Consult your State Agricultural Extension Service or Experiment Station for specific use information.

(1) **SUGARCANE** (Ultra-Low-Volume Spray—Florida, Louisiana and Texas Only): Sugarcane Borer—Apply 3 pints per acre undiluted. Gowan Azinphos-M 2EC may be used undiluted in any aerial spray equipment that has been adapted and calibrated for ultra-low-volume spraying. Planes must be equipped with accepted low-volume devices that will produce droplets within the range of 30 to 100 microns in size. For best results, applications should be made at approximately cane-top level, and not more than 10 feet above cane-top level. Do not apply more than 5 times per season, or within 30 days of harvest. Because from sugarcane treated with Gowan

Azinphos-M 2EC may be used for feed of cattle, sheep and goats. Consult your State Agricultural Extension Service or Experiment Station for specific use information.

**TOBACCO:** Aphids, Grasshoppers, Tobacco Flea Beetle, Tobacco Hornworm—2 to 3 pints. Tobacco Budworm—3 pints. Apply specified dosage per acre by air or ground equipment, in sufficient water for complete coverage but not less than 1 gallon per acre. Treat for horn worms as soon as egg masses or worms are first found. Repeat as necessary, but not within 6 days of harvest. Prune before treating.

### FRUIT

**APPLES; CRABAPPLES; QUINCES** (Washington, Oregon, Idaho and Utah): Apple Maggot, Codling Moth, European Apple Sawfly, Eye-Spotter, Bud Borer, Fruit Tree Leaf Roller, Green Fruitworm, Orange Tortrix, Plum Curculio, Red-Banded Leaf Roller—2 to 4 pints. Apply specified dosage per acre undiluted by helicopter or fixed wing aircraft using equipment capable of applying ultra-low volume sprays. Use Beecomist nozzles with 20-micron sleeves. Do not apply more than 5 times per season or within 7 days of harvest. Do not graze livestock in treated orchards or groves for 21 days after treatment.

**APRICOTS; NECTARINES; PEACHES:** Aphids, Cottony Peach Scale, European Fruit Lecanium Scale, Forbes Scale, Lesser Peach Tree Borer, Mites, Peach Tree Borer, Platynota Nevada Leaf Roller, Plum Curculio, Red-Banded Leaf Roller, San Jose Scale, Stink Bug, Tarnished Plant Bug, Tortoise Scale, Walnut Scale, White Peach Scale—1 to 1 1/2 pints. Oriental Fruit Moth, Peach Twig Borer—1 to 1 1/2 pints. **NECTARINES:** Thrips—1 to 1 1/2 pints. Apply specified dosage in 100 gallons of water as a full coverage spray, using not more than 800 gallons of finished spray per acre. Repeat as necessary. Do not apply more than 8 times per season, or within 21 days of harvest for Apricots, Nectarines and Peaches. Apply the 1 1/2 pint rate for Oriental Fruit Moth and Peach Twig Borer on Apricots, Nectarines and Peaches only before mid-season. For control of Peach Tree Borer, apply 2 to 3 sprays to trunk from ground to scaffold limbs, timed with moth flight. For Scale control, apply when crawlers are present. Note: It is suggested that when treating Nectarines during bloom period, bees, etc., should be warned well in advance to remove hives a safe distance from orchards to be treated. Do not graze livestock in treated orchards or groves for 21 days after treatment.

**PLUMS; PRUNES:** Aphids, Eye-Spotted Bud Moth, Forbes Scale, Fruit Tree Leaf Roller, Lesser Peach Tree Borer, Mites, Orange Tortrix, Peach Tree Borer, Peach Twig Borer, Plum Curculio, Red-Banded Leaf Roller, San Jose Scale, Stink Bug, Tarnished Plant Bug, Tortoise Moth—1 to 2 pints. California Plum Borer—2 pints. Apply specified dosage in 100 gallons of water as a full coverage spray, using not more than 800 gallons of finished spray per acre. Repeat as necessary. Do not apply more than 8 times per season or within 15 days of harvest for Plums or Prunes. For control of Peach Tree Borer, apply 2 to 3 sprays to trunk from ground to scaffold limbs, timed with moth flight. For Scale control, apply when crawlers are present. Do not graze livestock in treated orchards or groves for 21 days after treatment.

**BLACKBERRIES; BOYSENBERRIES; LOGANBERRIES; RASPBERRIES:** Leafhoppers, Leaf Rollers—1 pint. Leaf Miners—1 1/2 pints. Aphids—1 1/2 to 2 pints. Obscure Root Weevil—2 pints. Apply specified dosage per acre to foliage, using approximately 200 gallons of water for good coverage. Where ground conditions dictate an air application, use specified rate in a minimum of 1 gallon of water per acre. Repeat as necessary, but not within 14 days of harvest.

**BLACKBERRIES; BOYSENBERRIES; LOGANBERRIES; RASPBERRIES:** Raspberry Crown (Root) Borer—4 to 8 pints. Obscure Root Weevil—2 pints. For control of root weevils and borers prior to harvest, apply specified dosage per acre to lower portion of canes and to the soil beneath the plants, using approximately 200 gallons of water. Do not apply more than twice per season. Do not make applications within 3 days of harvest at rates up to 4 pints per acre. Rates above 4 pints per acre should be applied only before fruit set, or after crop is harvested.

**BLUEBERRIES** (Eastern and North Central States Only): Blueberry Maggot, Fruit Weevils, Lecanium Scale, Plum Curculio—2 to 3 pints. Apply specified dosage per acre using approximately 200 gallons of water for good coverage. Where ground conditions dictate an air application, use specified rate as a minimum of 1 gallon of water per acre. Repeat as necessary, but not more than 4 times per season, nor within 3 days of harvest. If multiple late-season applications of dust formulations containing Azinphos-M are to be made by Blueberry Maggot control, do not make more than two applications of Gowan Azinphos-M 2EC per season, with the last spray no later than June 15.

**CRANBERRIES:** Cranberry Fruitworm, Sparganothis sulcata, Tipworm—2 to 4 pints. Fireworms—4 pints. Apply specified dosage per acre using approximately 200 gallons of water for good coverage. Where ground conditions dictate an air application, use specified rate in a minimum of 1 gallon of water per acre. Repeat as necessary. Do not apply within 21 days of harvest.

**CITRUS FRUITS:** Aphids, Black Scale, Brown Soft Scale, Chaff Scale, Citricola Scale, Citrus Mealybug, Citrus Rust Mite, Citrus Thrips, Cottony-Cushion Scale, European Brown Snee, Florida Red Scale, Fruit Tree Leaf Rollers, Fuller Rose Beetle, Glover Scale, Orange Tortrix, Purple Scale, Snow Scale, Western Tussock Moth, Whiteflies—1 to 1 1/2 pints. California Red Scale, Texas Citrus Mite, Yellow Scale—1 1/2 pints. Apply specified dosage in 100 gallons of water as a full coverage spray, using not more than 2000 gallons of finished spray per acre. A single application per year may be applied up to within 7 days of picking. Where 2 applications are required, the second spray should not be applied within 28 days of harvest. Do not apply more than twice per fruit year. Do not pick fruit or do other work involving contact with the trees, such as pruning, within 7 days of treatment. Do not graze livestock in treated orchards or groves for 21 days after treatment.

**GRAPES:** Grape Berry Moth, Grape Cane Girdler, Grape Mealybug, Leafhoppers, Mites, Red-Banded Leaf Rollers, Thrips—1 to 2 pints. Apply specified dosage in 100 gallons of water as a full coverage spray, using not more than 300 gallons of finished spray per acre. Repeat as necessary, but not more than 3 times per season. Minimum dosage specified may be applied up to harvest. Higher rates up to 1 1/2 pints require a 10-day interval to harvest, and above 1 1/2 pints, a 28-day interval to harvest.

**STRAWBERRIES:** Aphids, Meadow Spittlebug, Oblique-Banded Leaf Roller, Obscure Root Weevil, Oriental Leaf Tier, Pear Leaf Weevil, Small Black (Rasp) Weevil, Strawberry Leaf Rollers, Whitefly—2 pints. Apply specified dosage in 200 gallons of water per acre as a full coverage spray. Where ground conditions dictate an air application, use specified rate in a minimum of 1 gallon of water per acre. Repeat as necessary. Do not apply within 5 days of harvest.

### NUTS

**ALMONDS:** Peach Twig Borer—1 1/2 to 2 pints. Apply specified dosage in 100 gallons of water as a full coverage spray, using not more than 500 gallons of finished spray per acre. Do not apply more

than twice per season, nor within 80 days of harvest. Allow 30 days between applications. Do not graze livestock in treated orchards or groves for 21 days after treatment.

**FILBERTS (Pacific Northwest Only):** Apple Mealybug, Filbert Aphid, Filbert Leaf Roller, Filbertworm—1 to 3 pints. Apply specified dosage in 100 gallons of water as a full coverage spray using not more than 1000 gallons of finished spray per acre. Repeat as necessary. Do not apply within 30 days of harvest. Do not graze livestock in treated orchards or groves for 21 days after treatment.

**PECANS:** Aphids, Fall Webworm, Hickory Shuckworm, Leaf Miners, May Beetles, Mites, Fawn Caterpillar, Southern Green Stink Bug, Spottedbug, Twig Girdlers, Walnut Caterpillar—1½ to 2½ pints. Apply specified dosage in 100 gallons of water as a full coverage spray using not more than 1000 gallons of finished spray per acre. Repeat as necessary. Do not apply after husks split. Do not graze livestock in treated orchards or groves for 21 days after treatment.

**WALNUTS:** Aphids, Codling Moth, European Red Mite, Filbertworm—1½ to 3½ pints. Apply specified dosage in 100 gallons of water as a full coverage spray using not more than 1100 gallons of finished spray per acre. Repeat as necessary. Do not apply after husks split. Do not graze livestock in treated orchards or groves for 21 days after treatment.

#### VEGETABLES

**ARTICHOKES:** Plum Moth—Apply 6 pints per acre by air or ground equipment in sufficient water for complete coverage, but not less than 1 gallon per acre. Repeat as necessary. Do not apply within 30 days of harvest. Do not feed or ensile treated forage.

**BEANS (Snap and Dry):** Leaf Rollers, Mites—1 to 2 pints. Aphids, Bean Leaf Beetle, Green Cloverworm, Leafhoppers, Leaf Miners, Stink Bugs, Velvet Bean Caterpillar—1½ to 2 pints. Mexican Bean Beetle, Spotted Cucumber Beetle, Striped Cucumber Beetle, Tarnished Plant Bug, Western-Striped Cucumber Beetle—2 pints. Apply specified dosage per acre by air or ground equipment in sufficient water for complete coverage, but not less than 1 gallon per acre. Repeat as necessary. Do not apply to Snap Beans within 7 days of harvest, nor to Dry Beans within 30 days of harvest. Do not exceed 4 applications on Dry Beans. Do not feed or ensile treated forage.

**BROCCOLI; BRUSSELS SPROUTS; CABBAGE, CAULIFLOWER:** Aphids, Cabbages Looper, Diamondback Moth, Imported Cabbageworm—Apply 2 to 3 pints per acre by air or ground equipment in sufficient water for complete coverage, but not less than 1 gallon per acre. Repeat as necessary. Do not apply within 7 days of harvest for Brussels Sprouts, 15 days of harvest for Broccoli and Cauliflower, or within 21 days of harvest for Cabbage. Cabbage Maggot—Mix ½ pint in 50 gallons of water. Apply 4 to 6 ounces of the emulsion per plant immediately after transplanting.

**BROCCOLI; BRUSSELS SPROUTS; CABBAGE; CAULIFLOWER (Transplant Fields in California Only):** Cabbage Maggot—Apply 3 pints in 300 to 400 gallons of water per acre as a soil drench in the rows when damage first appears. Additional applications may be necessary. Do not apply within 21 days of harvest.

**BROCCOLI; BRUSSELS SPROUTS; CABBAGE; CAULIFLOWER (Direct-Seeded Fields in California Only):** Cabbage Maggot—Apply 3 pints per acre in sufficient water for uniform distribution. Mix in the upper 2 inches of soil prior to seeding, or spray in the seed row at planting time. Usually, 2 to 3 additional sprays are necessary during the growing season, depending upon time of year and maggot population. Do not apply within 21 days of harvest.

**CELERY:** Aphids, Leaf Miners, Leafhoppers, Spittlebugs, Tarnished Plant Bug—Apply 2 pints in 100 gallons of water as a full coverage spray using not more than 200 gallons of finished spray per acre. Repeat as necessary, but not within 14 days of harvest.

**BLACKEYED PEAS (Southern Peas, Crowder Peas):** Corn Earworm, Cowpea Curculio—3 to 4 pints. Leaf Miners, Stink Bug—1½ to 2 pints. Apply specified dosage per acre by air or ground equipment in sufficient water or complete coverage, but not less than 1 gallon per acre. Do not apply more than 4 times per season, nor within 7 days of harvest. Do not use vines for feed or forage, nor pasture treated areas.

**CUCUMBERS:** Spotted Cucumber Beetle, Striped Cucumber Beetle, Western-Striped Cucumber Beetle—Apply 2 pints per acre by air or ground equipment in sufficient water for complete coverage, but not less than 1 gallon per acre. Do not apply more than 3 times per season, nor within 7 days of harvest.

**EGGPLANT:** Leaf Miners—1½ to 2 pints. European Corn Borer, Flea Beetles—2 pints. Apply specified dosage per acre by air or ground equipment in sufficient water for complete coverage, but not less than 1 gallon per acre. Repeat as necessary. Do not apply after fruit set.

**ONIONS (Green and Dry):** Thrips—Apply 2 to 3 pints per acre by air or ground equipment in sufficient water to give complete coverage, but not less than 1 gallon per acre. Do not apply more than 3 times per season, nor within 28 days of harvest of Dry Onions, or 7 days of harvest of Green Onions.

**PEPPERS:** Leaf Miners—1½ to 2 pints. European Corn Borer, Flea Beetles—2 pints. Apply specified dosage per acre by air or ground equipment in sufficient water to give complete coverage, but not less than 1 gallon per acre. A maximum of 4 treatments may be made up to within 3 days of harvest. Where more than 4 applications are required, do not apply last spray within 14 days of harvest.

**POTATOES:** Colorado Potato Beetle—1½ pints. Banded Cucumber Beetle, Leaf Miners—1½ to 2 pints. European Corn Borer, Flea Beetle, Leafhoppers, Spittlebugs, Tarnished Plant Bug—2 to 3 pints. Tuberworm—2¼ to 3 pints. Apply specified dosage per acre by air or ground equipment in sufficient water to give complete coverage, but not less than 1 gallon per acre. Repeat as necessary. Do not apply within 7 days of harvest.

**SPINACH:** Aphids, Leaf Miners, Mites—Apply 1½ to 2 pints per acre by air or ground equipment in sufficient water to give complete coverage, but not less than 1 gallon per acre. Repeat as necessary. Do not apply within 14 days of harvest.

**TOMATOES:** Colorado Potato Beetle—1½ pints. Banded Cucumber Beetle, Drosophila, Green Stink Bug, Leaf Miners, Whitefly—1½ to 2 pints. Aphids, European Corn Borer, Flea Beetles, Grasshoppers, Leafhoppers, Thrips—2 to 3 pints. Tuberworm—2¼ to 3 pints. Corn Earworm, Fruitworm, Hornworm, Pinworm, Yellow-Striped Armyworm—3 to 6 pints. Apply specified dosage per acre by air or ground equipment in sufficient water for complete coverage, but not less than 1 gallon per acre. Repeat as necessary. The high rates should be used where heavy infestations of late-instar lepidopterous larvae (large worms) and pinworms are present. Rates of 3 pints or less per acre may be applied up to day of harvest. Rates above 3 pints per acre require an interval of 14 days between application and harvest.

#### MELONS

**HONEYDEW MELONS; MUSKMELONS (Cantaloupe); WATERMELONS; OTHER MELONS:** Leafhoppers, Leaf Miners—1½

to 2 pints. Rindworms, Spotted Cucumber Beetle, Striped Cucumber Beetle, Western-Striped Cucumber Beetle—2 pints. Apply specified dosage per acre by air or ground equipment in sufficient water to give complete coverage, but not less than 1 gallon per acre. Repeat as necessary up to the day of harvest, but not more than 4 times per season.

#### ORNAMENTALS:

**ORNAMENTALS; NURSERY PLANTS; SHADE TREES:** Aphids, Black Vine Weevil, Calico-coccus Scale, Eucynimus Scale, Juniper Scale, Lace Bugs, Leafhoppers, Mass Olive Scale, Oystershell Scale, Pulvinaria Scale, Thrips—1½ to 2 pints. Brown Soft Scale, Putnam Scale—4 pints. Black Pine Leaf Scale, European Elm Scale—3 to 4 pints. Apply specified dosage per 100 gallons of water (2 teaspoons per gallon). Spray all foliage surfaces, including the underside of leaves, for complete coverage. For control of Black Pine Leaf, Brown Soft, European Elm and Putnam Scales, use 1 tablespoonful per gallon. Repeat as necessary.

**ORNAMENTALS; NURSERY PLANTS; SHADE TREES:** Cone Moth, Cone Moth—Apply 8 to 16 pints per 100 gallons of water. Time applications to coincide with moth flight when cones are open for pollination. Thorough coverage of cones is necessary for maximum control. Repeat as necessary. European Pine Shoot Moth, Nantucket Pine Tip Moth—Apply 1½ to 3 pints per acre in sufficient water for good coverage. Time applications to coincide with moth flights. For application to individual trees, use 1 tablespoonful of Gowan Azinphos-M ZEC per gallon of water.

**NOTE:** Injury to Hawthorn or American Linden may occur under some conditions. Do not allow children or pets on treated area until material has been washed into soil and treated area is dry.

\*This concentration is calculated for conventional hydraulic-type sprayers. When lower volumes of spray are applied per acre with concentrate sprayers, increase the concentration of Gowan Azinphos-M ZEC in the spray mixture in order to apply amount of Gowan Azinphos-M ZEC per acre equivalent to a full coverage spray. Where conditions dictate an air application, apply dosage per acre equivalent to a full coverage ground spray, in not less than 1 gallon of water per acre.

(1) NOTE: This formulation, when used undiluted, may cause spotting of automobile finishes if prolonged exposure is permitted. Do not spray directly over automobiles. If accidental exposure does occur, automobiles should be washed immediately.

**BEST AVAILABLE COPY**

#### NOTICE ON CONDITIONS OF SALE

Our recommendations for use of this product are based upon tests believed to be reliable. The use of this product beyond the control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of such or the results to be obtained if not used in accordance with directions or established sale practice. The buyer must assume all responsibility, including injury or damage, resulting from its misuse as such, or in combination with other materials.  
rev 788