

JUN 9 1994

5451901 $\frac{300}{17}$ 5463468 $\frac{305}{17}$

Mr. Christopher Davis
 Registration Manager
 Mycogen Corporation
 4980 Carroll Canyon Road
 San Diego, CA 92121

Dear Mr. Davis:

Subject: M-Pede Insecticide
 EPA Registration No. 53219-6
 Amendment dated October 15, 1993 and
 Submission of Efficacy Data dated December 13, 1993

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable with the following comments.

- 1) The efficacy data referenced above, submitted to support the use of M-Pede Insecticide on turf to control dollar spot, has been reviewed by the Fungicide/Herbicide Branch. The data submitted indicate that the product will control dollar spot adequately.
- 2) The current label directions for turf insecticide application indicate that irrigation should immediately follow application (600 gal. water per 1000 sq. ft.). Please indicate on the label whether irrigation should also be used in conjunction with fungicidal application on turf.
- 3) According to our files, the Environmental Hazards statement under the Precautionary Statements should be changed to read:

"This product may be hazardous to aquatic invertebrates. Do not apply directly to water, areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of water."

- 4) On page 6 of the label, the sentence "This product enhances activity of insecticides such as Baythroid 2, Bolstar 6, and Orthene for control of certain lepidopterous larvae" must be changed to read "This product enhances activity of insecticides when tank-mixed with insecticides such as Baythroid 2, Bolstar 6 and Orthene for control of certain lepidopterous

Bedwards A: 53219/6.2 6/9/94

209/14

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

larvae."

- 5) Submit one copy of your final printed labeling before you release the product for shipment.

Please note that the Precautionary labeling and the signal word may change upon Agency review of the dermal irritation data.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

A stamped copy of the labeling is enclosed for your records. If you have any questions about this letter, please contact Beth Edwards at (703) 305-5400 or (703) 305-6600.

Sincerely yours,

Robert A. Forrest
 Product Manager (14)
 Insecticide-Rodenticide Branch
 Registration Division (7505C)

Enclosure

CONCURRENCES

SYMBOL							
SURNAME							
DATE							

work copy

30/14

M-PEDE®

INSECTICIDE/FUNGICIDE

FOR COMMERCIAL USE

ACTIVE INGREDIENT

Potassium salts of fatty acids.....49% ✓

INERT INGREDIENTS.....51%

TOTAL.....100%

KEEP OUT OF REACH OF CHILDREN
CAUTION
 See side and back panels for additional precautionary statements

EPA Registration No. 53219-6

Net Contents: 2½ gallons

EPA Establishment No. ① 907-TN-01 ② 4091-CA-01 ③ 4091-TN-03

M-Pede is a registered trademark of Mycogen Corporation.



Mycogen Corporation
4980 Carroll Canyon Road
San Diego, California 92121
(800-745-7476)

ACCEPTED
with COMMENTS
in EPA Letter Dated

JUN 9 1994

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, this product is hereby
registered to [unclear] U.S.
53219-6

PRECAUTIONARY STATEMENTS

CAUTION

Hazards to Humans and Domestic Animals: Harmful if swallowed. May cause eye irritation; avoid eye contact.

First Aid: In case of eye contact, flush with plenty of water. Get medical attention if irritation persists.

Environmental Hazards: Keep out of lakes, streams and ponds.

Physical or Chemical Hazards: Do not use or store near heat or open flame.

For emergency medical information, call toll free 1-800-228-5635.

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling. Read the entire label before using this product.

GENERAL INFORMATION

M-Pede® is an effective contact insecticide, miticide and fungicide for control of soft bodied insects, mites and powdery mildew. The formulation is based on potassium salts of naturally derived fatty acids. Complete coverage of targeted pests is essential for maximum control. This product may be used to control targeted pests on numerous crops which include vegetables, grapes and other small fruits, tree fruits, tree nuts, cotton, tobacco, shrubs, shade and ornamental trees, turf, foliage and flowering plants growing outdoors, in greenhouses and in interiorscapes. This product can be applied up to harvest.

NON - AGRICULTURAL USE REQUIREMENTS

Certain uses of this product are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). These uses apply to plants growing in interior plantscapes, ornamental gardens or parks, or on golf courses or lawns and grounds. There are no reentry restrictions after the spray has dried.

MIXING AND APPLICATION

Mixing

- Always determine the compatibility of water, pesticides and other tank additives with this product prior to addition to the spray tank. Determine compatibility by conducting a jar test using proportional quantities of each material.
- For best results, use freshly mixed spray made with soft water. If water has high mineral content (hardness > 300 ppm or 17.5 grains/gallon), check for compatibility as described above. If needed, add an approved compatibility agent to the tank prior to the addition of this product.
- Rates are often provided as a % volume/volume (v/v) solution. A 2% v/v solution is prepared by adding 2 gallons of M-Pede to 98 gallons of spray solution.
- A defoaming agent may be needed for use in sprayers equipped with an agitator.
- This product is compatible with many pesticides which include Agri-mek®, Ambush®, Azatin®, Asana XL®, Avid®, Bayleton®, Baythroid® 2, Bidrin®, Bolstar® 6, Capture®, Cygon®, diazinon, Dursban®, Eagle®, Guthion®, Lannate®, Lorsban®, Margosan O®, malathion, Mavrik Aquaflow®, Monitor®, Orthene®, Pageant®, Pipro®n, Pounce®, Pyrellin®, Pyrenone®, Rally®, Rubigan®, Sevin®, Thiodan®, Phaser®, Talstar®, Vendex® and Zephyr®.

When using this product in a tank mix, read and follow all product labels. The recommended order of mixing is:

- Compatibility agent (if needed)
- Wettable and soluble powders
- Flowable liquids
- Emulsifiable oils and concentrates
- M-Pede

Application of spray mixtures should conform to use precautions and directions for all products included in the tank mix. Combinations should be kept agitated and sprayed promptly after mixing.

Application Guidelines

- This product may be applied with most types of ground or aerial spray equipment. Do not use with pulse or thermal fogger applicators. Do not apply through any type of irrigation system. ✓
- This product must come into contact with the targeted soft bodied pests or powdery mildew to be effective. Complete coverage of pests is essential for maximum control. Direct sprays to contact the pests.
- To decrease the potential for injury on foliage, fruit and flowers of sensitive plants, apply M-Pede solutions to wet (minimize run-off).
- Use freshly prepared spray solutions.
- Apply promptly after mixing with other pesticides to avoid or reduce alkaline hydrolysis of certain pesticides.
- Avoid applications when wind conditions impair thorough coverage.
- Unless otherwise noted, do not tank mix with penetrators, gibberellic acid, calcium nitrate or diatomaceous earth.
- Avoid applications on new transplants and unrooted cuttings.
- Do not apply to very sensitive plants such as: horse chestnut, Japanese maple, mountain ash, Cherimoya, bleeding heart or sweetpeas.

Evaluate the effect of this product alone or in combination with desired companion product(s) on a few test plants prior to full scale applications when sensitivity of plant species or cultivars under local use conditions is unknown. Do not make repeat applications at less than 7 day intervals, or make more than 3 sequential applications at 7 to 14 day intervals unless your prior experience has shown the use pattern to be non-injurious to the type and the developmental stage of plant(s) to be treated under local growing conditions.

Notes to User: Understanding Plant Sensitivity

Sensitivity of plants to this product can be influenced by several factors which include: cultivar, plant vigor, environmental conditions (temperature, relative humidity, moisture availability, light intensity, etc.), spray concentration, spray additives, pH of spray mixtures, delivery volume as well as the timing, number and frequency of applications.

- Potential for plant injury increases when this product is used under the following conditions:
 - * Plants are stressed, such as under hot (> 90° F), humid and/or drought conditions.
 - * More than 3 sequential applications are made at 7 day intervals.
 - * The pH of the final spray mixture is lowered below 8.0.
 - * High volume applications cause the spray to collect on the bottom of fruit such as apple, pear, nectarine, orange and grape.
 - * Tender new foliage is present on narrow leaf evergreen trees and shrubs.
- Tank mix combinations with various foliar nutrients, adjuvants such as spreader stickers or activators, alkaline based chelating agents (such as EDTA), Aliette®, chlorothalonil and pesticides containing sulfur or metallic ions (such as: manganese, magnesium, iron, zinc, etc.) may be physically incompatible and/or phytotoxic.
- Mixing sulfur (micronized and flowable) with this product or applying this product within 3 days of a sulfur application will increase potential for sulfur burn on sensitive plants such as grapes. Avoid tank mixes with wettable sulfur during hot weather (> 90° F).
- Application of this product may result in removal of the gaucous bloom from spruces and the waxy bloom on grapes.

- 60714
- The following plants may be sensitive to this product: bald cypress, begonia, chrysanthemum, Crown of Thorns and other Euphorbia, cucumber, delicate ferns, narrow leaf evergreens (especially when stressed or when tender new growth is present), Dieffenbachia, fuschia, gardenia, impatiens, jade plant, lantana, ornamental ivy, palms, poinsettia, redbud, river birch, schafflera, Zebra plant and some succulents. Test first on a few plants prior to broad scale applications when sensitivity under local use conditions is unknown.
 - Flowers of plants including African violet, ageratum, azalea, begonia, camellia, chrysanthemum, dahlia, geranium, gloxinia, impatiens, lily, marigold, orchid, pansy, petunia, poinsettia bracts, rose, salvia, snapdragon, vinca and zinnia may be injured when sprayed with this product. Safety to blooms should be determined for each individual cultivar of plant to be treated by conducting a small test under local use conditions.

INSECTICIDAL/MITICIDAL USES

This product may be used as a foliar spray to control or suppress soft bodied pests which include: adelgid, aphid, earwig, lace bug, leafhopper, mealybug, mole cricket, plant bug, psyllid, sawfly larva, scale, spider mite, tent caterpillar, thrips, whitefly, gypsy moth, and chinch bug.

VEGETABLES, HERBS AND SPICES

Vegetables: Asparagus, Brassica (cole) (such as: broccoli, brussell sprout, cabbage, Chinese cabbage/bok choy and kale), Bulb (such as: onion and garlic), Cucurbit (such as: cucumber, melon, pumpkin and summer squash), Fruiting (such as: eggplant, pepper and tomato), Leafy (such as: celery, lettuce and spinach), Legume (such as: bean, pea and soybean), Root and tuber (such as: potato, radish and sugarbeet).

✓Herbs and spices: (such as: basil, chive, dill, marjoram and sage).

Pests controlled: aphid, leafhopper, spider mite, broad mite, tomato russet mite, plant bug, exposed thrips and whitefly.

Timing: Initiate applications as soon as pest is observed. Repeat applications at one to two week intervals, or as needed, to control reinfesting or increasing pest populations.

Rate when used alone: Use a 2% v/v solution of this product.

Rate when used in tank mixes: To achieve enhanced and residual pest control, use a 1 to 2 % v/v solution of this product in combination with a recommended product such as: Avid, Asana XL, Capture, Lorsban, Orthene, Pyrellin, Pyrenone or Thiodan.

- Use a 1% v/v rate with most companion pesticides targeted at the same pest(s) as M-Pede.
- Lower rates (0.25 - 1 % v/v solution) of this product may be used in tank mixes for knockdown/suppression of adult whiteflies.

See Application Guidelines and Notes to User: Understanding Plant Sensitivity for additional comments.

BEST AVAILABLE COPY

FRUIT AND NUT CROPS:

Citrus fruits (such as: orange, lemon and grapefruit), Pome fruits (such as: apple, crabapple and pear), Stone Fruits (such as: cherry, nectarine, peach and plum), Small Fruits and Berries (such as: cane berries, cranberry, grape and strawberry) and Tree Nuts (such as: almond, English walnut and pecan).

Pests controlled: aphid, whitefly, scale crawlers, pear psylla, pear slug (sawfly larvae), leafhopper, campyloma, apple rust mite, citrus red mite, Pacific mite, Willamette mite, European red mite, pear rust mite and two spotted spider mite.

Timing: Initiate applications as soon as pest is observed. Repeat applications at one to two week intervals, or as needed, to control reinfesting or increasing pest populations.

Rate when used alone: Use a 2% v/v solution of this product.

Rate when used in tank mixes: To achieve enhanced and residual pest control, use a 1 to 2 % v/v solution of this product in combination with a recommended product such as: Agri-Mek, Lorsban, Thiodan, Pyrellin, Pyrenone, Kelthane or Vendex.

- Use a 1% v/v rate with most companion pesticides targeted at the same pest(s) as M-Pede.
- Lower rates (0.25 - 1.0 % v/v solution) of this product may be used in tank mixes for knockdown/suppression of adult whiteflies.

Application: Apply to wet (minimize run off) with an air blast or other appropriate sprayer.

Precautions: This product can cause some marking of fruit. Application of excessive water volumes will increase the potential for fruit injury by causing collection of spray on the bottom of fruit, especially when poor drying conditions exist.

See Application Guidelines and Notes to User: Understanding Plant Sensitivity for additional comments.

Additional use recommendations and precautions for specific fruit and nut crops:

Apple	Control of apple leafhopper: Target 1st generation white apple leafhopper nymphs before they mature into flyers.
Pear	Control of pear psylla: Make one application at delayed dormant to control winterform and newly hatched nymphs. Make follow-up applications on processing pears at petal fall and turn down for control of 1st and 2nd generation nymphs before they mature into fourth instars. Applications of this product are not recommended after the delayed dormant stage on fresh market varieties including d'Anjou and Asian pear. Applications after fruit set may cause marking which can reduce market value of the fruit.
Stone fruit	Application: Concentrate (air blast) applications are recommended with a maximum volume of 100 gallons per acre on smooth skinned fruits and 175 gallons per acre on peaches. Precaution: Do not make dilute spray applications on smooth skinned fruit after fruit formation. This product is not recommended for use on yellow skinned nectarine varieties.
Citrus	Precaution: Some marking may occur on oranges and other types of citrus fruit, especially when excessive application volumes result in runoff and concentration at the base of fruit. Marking may also occur when sooty mold is present.

BEST AVAILABLE COPY

80714

Grape

Control of Leafhopper: Scout and make first application to control leafhopper nymphs during the first generation (first brood) when the majority of nymphs are in the third through fourth instars. Repeat applications as needed to control the reinfesting populations. This product is effective for late season and preharvest suppression of leafhoppers in wine and raisin grapes.

Precautions:

- * Applications of this product in combination with sulfur or within 3 days of a sulfur application will increase potential for sulfur injury, especially on early season new growth.
- * Applications during the bloom period may effect fruit set and/ or increase shatter of some grape cultivars. Therefore, avoid applications during the bloom period unless prior experience and/or small scale trials have demonstrated no adverse effects on the cultivar(s) to be sprayed under local use conditions.
- * This product may alter the waxy bloom and or cause marking on the surface of grapes which can affect the quality rating of table grapes at harvest. To reduce potential for fruit injury, do not apply in greater than 75 gallons of water per acre on table grapes after berries are 6 -7 mm in diameter.
- * Do not apply at any time to Calmeria or Italia varieties of table grapes.

FIELD CROPS

Alfalfa, Canola, Cotton, Peanut, Tobacco and Wheat

when tank mixed with insecticide

Pests controlled or suppressed: aphid, exposed thrips, greenbug, fleahopper, plant bug (such as lygus and stink bugs), spider mite and whitefly. This product enhances activity of insecticides such as Baythroid 2, Bolstar 6 and Orthene for control of certain lepidopterous larvae.

Timing: Initiate applications as soon as pest is observed, or as needed to avoid economic injury. Repeat applications at one to two week intervals, or as needed, to control reinfesting or increasing pest populations.

Rate when used alone: In situations where thorough coverage of pests is not possible or practical, it is recommended that this product be tank mixed with a companion pesticide with residual activity targeted at the same pest(s).

Cotton, alfalfa, peanut, tobacco and wheat: Use 4 pints of this product per acre when applications are made in 3 to 25 gallons of water per acre. Use a 2% v/v spray solution of this product when 25 or more gallons of water are applied per acre.

Canola: Use a 2 % v/v solution.

Rate when used in tank mixes: (To achieve enhanced and residual pest control, tank mix with a recommended product such as: Bidrin, Thiodan, Phaser, Orthene, Asana XL, Capture or Zephyr. M-Pede may be used in tank mixes with penetrator type adjuvants for application to cotton, peanuts and tobacco only if prior use under local use conditions has demonstrated plant safety.

Cotton, alfalfa, peanut, tobacco and wheat: Use 0.75 to 4 pints of this product per acre when applied in 3 to 25 gallons of water per acre. Use a 1 to 2% v/v solution of this product when greater than 25 gallons of water are applied per acre.

Canola: Use a 1 to 2% v/v spray solution of this product.

See Application Guidelines and Notes to User: Understanding Plant Sensitivity for additional comments.

BEST AVAILABLE COPY

9044

TURF

Pests controlled or suppressed: chinch bug, greenbug, mite, mole cricket, sod webworm, flea and grubs.

Timing: Initiate sprays when pests first appear and repeat at one or two week intervals as needed, or time sprays based on local State Agricultural Experiment Station or Extension Service recommendations.

Rate when used alone: Apply a 2% v/v solution of this product in adequate spray volume to achieve thorough coverage of the pest. In situations where thorough coverage of the pest is not possible or practical, apply this product in combination with a residual insecticide/miticide.

Rate when used in tank mixes: To achieve enhanced and residual pest control, use a 1 to 2% v/v solution of this product in combination with recommended products such as: Pageant, Dursban, malathion, diazinon or Orthene.

See Application Guidelines and Notes to User: Understanding Plant Sensitivity for additional comments.

HOPS, COFFEE, ARTICHOKE, WATERCRESS, BANANA AND PINEAPPLE:

Pests controlled: aphid, leafhopper, mealybug, spider mite, plant bug, scale, exposed thrips and whitefly.

Timing: Initiate applications as soon as pest is observed. Repeat applications at one to two week intervals, or as needed, to control reinfesting or increasing pest populations.

Rate when used alone: Use a 2% v/v solution of this product.

Rate when used in tank mixes: To achieve enhanced and residual pest control, use a 1 to 2 % v/v solution of this product in combination with a recommended companion product.

- Use a 1% v/v rate with most companion pesticides targeted at the same pest(s) as M-Pede.
- Lower rates (0.25 - 1.0 % v/v solution) of this product may be used in tank mixes for knockdown/suppression of adult whiteflies.

See Application Guidelines and Notes to User: Understanding Plant Sensitivity for additional comments.

BEST AVAILABLE COPY

100214

ORNAMENTAL LANDSCAPE TREES AND SHRUBS, CHRISTMAS TREES, FLOWERS, BEDDING AND INDOOR PLANTS

Pests controlled: adelgid, ants, aphid, buck moth larvae, earwig, elm leaf beetle larvae, sawfly larvae, gypsy moth eggs and larvae, Japanese beetle, lace bug, leafhopper, mealybug, rust mite, phylloxera, spider mite, shore fly, plant bug, psyllid, scale, tent caterpillar, exposed thrips and whitefly.

Timing: Initiate applications as soon as pest is observed. Repeat applications at one to two week intervals, or as needed, to control reinfesting or increasing pest populations.

Rate when used alone: Unless otherwise noted, apply a 2% v/v solution of this product.

Rate when used in tank mixes: To achieve enhanced and residual pest control, use a 1 to 2 % v/v solution of this product in combination with a recommended product such as: Avid, Diazinon, Dursban, Malathion, Orthene, Thiodan, Mavrik Aquaflow, Pageant, Pounce, Talstar or Tempo. Avoid tank mixes with sulfur.

- Use a 1% v/v rate with most companion pesticides targeted at the same pest(s) as M-Pede.
- Lower rates (0.25 - 1.0 % v/v solution) of this product may be used in tank mixes for knockdown/suppression of adult whiteflies.

Note: Unless otherwise noted, apply this product to wet (minimize run off). If wilting occurs a few hours after application, rinse with a clean water spray. Since applications may cause injury to flowers of some plant cultivars, test product on a few flowering plants under local use conditions prior to large scale use.

See Application Guidelines and Notes to User: Understanding Plant Sensitivity for additional comments.

11044

Insect	Additional Use Instructions
Adelgid, psyllid, scale on trees and shrubs	Spray to wet infested plant surface.
Balsam woolly adelgid	Spray trees thoroughly when nymphs are abundant in early spring and/or fall. Make a second application 10 days later.
Cocley Spruce gall adelgid	Apply a 4% v/v solution to spruce in fall or spring when females begin egg laying. On Douglas fir, control exposed "woolly aphids" in early spring immediately before bud break (April) or in the fall (Sept.-Oct.) after foliage has hardened off.
Hemlock woolly adelgid	Apply this product immediately after detecting an adelgid infestation to avoid the spread of the pest. In regions with heavy infestations and on trees with a history of infestation, a total of four applications made in April/May, June, August/September and October may be necessary. Because it is a contact insecticide, do not use this product as a preventive control measure.
Conifer and pine needle scale	When insects first appear, apply a 1.0 to 2.0% v/v spray to thoroughly wet crawlers.
Tent caterpillar	Apply a 3% v/v solution. Spray directly on young larvae when congregated on outside of tent or dismantle tents and spray to thoroughly wet larvae.
Spider mite	Wet underside of leaves and needle sheaths. Wait 7-10 days to allow viable eggs to hatch and make a second application before mites reach egg laying maturity. For residual control, apply in as tank mix combination with a labeled companion product such as Avid.
Earwig	Spray directly on insects after disturbing their hiding place.
Leafminer (Dipteran)	Apply in tank mix combination with a labeled companion insecticide such as Avid which has residual activity.
Whitefly on poinsettia	Scout plants regularly and apply a 1.0 to 2.0% v/v solution when pests first appear. Make a second application 7 days later to target newly hatched nymphs. Make additional applications at weekly intervals, but avoid more than three consecutive weekly applications. Do not apply to bracts. Apply in combination with insecticides such as: Avid, Dursban, Mavrik Aquaflow, Pounce, Talstar and Tempo to achieve enhanced and/or residual control.
Gypsy moth	To suppress gypsy moth populations, apply a 3% v/v solution directly to the larvae.
Blossom thrips on African violets	Spray to contact thrips on blooms.
Euonymous scale	Thoroughly wet crawlers with a 2% solution. Delayed dormant applications of M-Pede (1 % v/v solution) plus summer oil (1 % v/v solution) will also be effective.
Spruce spider mite on conifers	Apply 1-2% solution of this product to thoroughly wet infested needles. Repeat application after 7 days if needed.

BEST AVAILABLE COPY

FUNGICIDAL USES

GENERAL INFORMATION

This product provides curative control of powdery mildew on grape, vegetables, trees, turf, roses and other ornamentals. M-Pede also provides control/suppression of dollar spot of turf.

12/20/14
OK / Per
Cure

General Use Recommendations

Complete coverage of susceptible plant tissue is essential for maximum control. Use the higher recommended rates and shorter application intervals when powdery mildew pressure is high. When season long sprays are required and/or complete coverage is difficult to achieve, use this product in a scheduled preventive spray program which includes protectant and/or systemic fungicides based on recommendations of your local State Agricultural Experiment Station, Extension Service, Pest Control Advisor or Mycogen representative.

TURF

Timing: Initiate sprays when the first signs of powdery mildew or dollar spot appear and repeat at 7 to 10 day intervals, or as needed. Schedule a follow-up fungicide application within 7 to 10 days after each application when M-Pede is applied alone.

Rates when used alone: Apply a 1 to 2% v/v solution of this product.

Rates when used in a tank mix: Apply a 1 to 2% v/v solution of this product with a recommended companion fungicide to achieve protectant/residual control of powdery mildew.

See Notes to User: Understanding Plant Sensitivity for additional comments.

ORNAMENTAL LANDSCAPE TREES AND SHRUBS, ROSES, FLOWERS, BEDDING AND INDOOR PLANTS

Timing: Initiate sprays when the first signs of powdery mildew appear and repeat at 7 to 10 day intervals, or as needed. Schedule a follow-up fungicide application within 7 to 10 days after each application when M-Pede is applied alone.

Rates when used alone: Apply a 1 to 2% v/v solution of this product.

Rates when used in a tank mix: Apply a 1 to 2% v/v solution of this product with a companion fungicide to achieve protectant/residual control of powdery mildew. Avoid tank mixes with sulfur. Applying this product within 3 days of a sulfur application (especially wettable and dusting sulfur) will increase potential for sulfur burn.

Note: If wilting occurs a few hours after application, rinse with a clean water spray. Since applications may cause injury to flowers of some plant cultivars, test this product on a few flowering plants under local use conditions prior to large scale use.

See Notes to User: Understanding Plant Sensitivity for additional comments.

FRUIT AND NUT CROPS

Pome fruits (such as apple, crabapple and pear), **Stone Fruits** (such as cherry, nectarine, peach and plum), **Small Fruits and Berries** (such as cane berries, cranberry, grape and strawberry) and **Tree Nuts** (such as English walnut and pecan).

Timing: Initiate sprays at bud break or as appropriate based on local powdery mildew control recommendations. Repeat at 7 to 10 day intervals, or as needed. Schedule a follow-up fungicide application within 7 to 10 days after each application when M-Pede is used alone.

Rates when used alone: Apply a 1 to 2% v/v solution of this product.

Rates when used in a tank mix: Apply a 1 to 2% v/v solution of this product with a recommended fungicide such as Bayleton, Rally, or Rubigan which provides protectant/residual control of powdery mildew. Although this product is physically compatible with wettable sulfur, caution should be used when applying the products together (see precautionary statements below).

Application: Make applications to wet (minimize run-off) with an air blast or other appropriate sprayer. This product can cause some marking of fruit. Application of excessive water volumes will increase the potential for fruit injury by causing collection of spray on the bottom of fruit, especially when poor drying conditions exist.

See Application Guidelines and Notes to User: Understanding Plant Sensitivity for additional comments.

Additional use recommendations for grapes:

Complete coverage of grape clusters as well as leaf surfaces is essential for effective control.

Use this product in a scheduled preventive spray program with recommended fungicides such as Bayleton, Rally, Rubigan and/or sulfur to achieve protectant/residual control of powdery mildew.

When used alone: Schedule a follow-up fungicide application within 7 to 10 days after each M-Pede application (through veraison).

When used in a tank mix: This product may be applied in tank mixes with fungicides such as Bayleton, Rally or Rubigan.

Precautions:

- Applications of this product in combination with sulfur or within 3 days of a sulfur application will increase potential for sulfur injury, especially on early season new growth.
- Applications during the bloom period may effect fruit set and/or increase shatter of some cultivars. Therefore, avoid applications during the bloom period unless prior experience and/or small scale trials have demonstrated no adverse effects on the cultivar(s) to be sprayed under local use conditions.
- This product may alter the waxy bloom and/or cause marking on the surface of grapes which can affect the quality rating of table grapes at harvest. To reduce potential for fruit injury, avoid applications in greater than 75 gallons of water per acre on table grapes after berries are 6 -7 mm in diameter.
- **Do not apply at any time to Calmeria or Italia varieties of table grapes.**

14044

VEGETABLES

Brassica (cole) (such as: broccoli, brussell sprout, cabbage, Chinese cabbage/bok choy and kale), **Cucurbit** (such as: cucumber, melon and summer squash), **Fruiting** (such as eggplant, pepper and tomato), **Leafy** (such as: lettuce), **Legume** (such as: bean, pea and soybean), **Root and tuber** (such as: potato, radish and sugarbeet):

Timing: Initiate sprays when the first signs of powdery mildew appear and repeat at 7 to 10 day intervals, or as needed.

Rates when used alone: Apply a 1 to 2% v/v solution of this product.

Rates when used in a tank mix: Apply a 1 to 2% v/v solution of this product with a recommended fungicide to achieve protectant/residual control of powdery mildew. Although this product is physically compatible with wettable sulfur, caution should be used when applying the products together.

See Application Guidelines and Notes to User: Understanding Plant Sensitivity for additional comments.

STORAGE AND DISPOSAL: Do not contaminate water, feed or foodstuff by storage or disposal.
STORAGE: Store only in original container, in a dry place; inaccessible to children and pets. Do not store full or partial containers in direct sunlight. Keep container tightly sealed when not in use.
PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.
CONTAINER DISPOSAL: Do not reuse empty container. Triple rinse, then offer for recycling or reconditioning, or puncture and dispose of in sanitary landfill or by incineration, if allowed by state and local authorities. If burned, stay out of smoke.

LIMIT OF WARRANTY AND LIABILITY

This product conforms to the description on this label and is reasonably fit for the purpose set forth on this label when used according to the label directions and under the specified label conditions. THE MANUFACTURER DISCLAIMS ANY AND ALL OTHER EXPRESS OR IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE. Buyer and all users assume all risks and responsibility for loss or damage if this product is used, stored, handled or applied under any condition not reasonably foreseeable or beyond the manufacturer's control, or not as explicitly set forth in this label. THE LIMIT OF THE MANUFACTURER'S LIABILITY SHALL BE THE PURCHASE PRICE FOR THE QUANTITY INVOLVED. IN NO EVENT SHALL THE MANUFACTURER BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES.

Agri-Mek, Avid and Zephyr are registered trademarks of Merck & Co., Inc.
Dursban, Lorsban, Fageant, Pipron and Rubigan are registered trademarks of DowElanco.
Orthene is a registered trademark of Chevron Chemical Company.
Alette and Sevin are registered trademarks of Rhone-Poulenc Ag Company
Bidrin, Lannate, Vendex and Asana XL are registered trademarks of E. I. DuPont De Nemours & Co.
Ambush is a registered trademark of I.C.I. Group Companies
Capture, Pounce, Thiodan and Talstar are registered trademarks of FMC Corp.
Guthion and Monitor are registered trademarks of Mobay Corp.
Margosan-G is a registered trademark of Grace Sierra Crop Protection Co.
Mavrik Aquaflo is a registered trademark of Sandoz Ltd
Phaser is a registered trademark of Hoechst-Roussel Agri-Vet Company.
Pyrene is a registered trademark of Roussel UCLAF Corporation
Pyrellin is a registered trademark of Webb Wright Corp.
Bayleton, Baythroid, Bolstar and Tempo are registered trademarks of Bayer Ag, Germany
Azatin is a registered trademark of AgriDyne Technologies, Inc.
Eagle and Rally are registered trademarks of Rohm and Haas Company.

BEST AVAILABLE COPY

The use of M-Pede alone and/or in combination with certain insecticides and miticides is covered by one or more of the following U.S. patent #'s: 4774234, 4861732, 4870102, 5192545, 4826678, 4983591, 4904645, 5047424, 5030658 and 5093124.

Patent for use as a fungicide is pending.