

Reg # 53219-6

PM-14

NOV 23 1992

177

5429008

310
18

Mr. Christopher Davis
Mycogen Corporation
5451 Oberlin Drive
San Diego, CA 92121

Dear Mr. Davis:

Subject: M-Pede Insecticide
EPA Registration No. 53219-6
Your Application for Pesticide Amendment
Dated October 26, 1992

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable provided that you:

1. Under the comments section for both the label and supplemental label for roses indicate when to begin application. Add a statement such as "Begin application at first appearance of disease".

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.

Sincerely yours,



Robert A. Forrest
Product Manager (14)
Insecticide-Rodenticide Branch
Registration Division (H7504C)

enclosure

MADDEN 11/23/92 Disk #2

M-PEDE™ Insecticide

DIRECTIONS FOR FUNGICIDAL USE ON GRAPES AND ROSES

ACCEPTED
with COMMENTS
in EPA Letter Dated:

NOV 23 1992

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.

53219-6

Label must be in the hands of the user at time of pesticide application.

Always read and follow this label and the EPA registered label.

Recommended Rates:

M-Pede provides curative control of powdery mildew on plants listed below.

Crop	Rate	Comments
Grapes	Mix 1 to 2 parts product per 100 parts water. Use the higher rates and higher volumes when powdery mildew pressure is high.	Best results are obtained by initiating applications at bud break. To be effective, M-Pede must come into direct contact with the powdery mildew fungus. Complete coverage of upper and lower leaf surfaces as well as grape clusters is essential. Application of 100 to 150 gallons of water per acre normally provides adequate coverage. Apply every 7 to 14 days, or as needed. This product may alter the waxy bloom and/or cause marking on the surface of grapes that can affect the quality rating of table grapes at harvest.
Roses	Mix 1 to 2 parts product per 100 parts water. Use the higher rates if powdery mildew infections become heavy.	To be effective, M-Pede must come into direct contact with the powdery mildew fungus. Complete coverage of upper and lower leaf surfaces as well as canes is essential. Apply every 7 days, or as needed. Rotate sprays or rinse foliage with water to avoid more than 3 consecutive sprays.

Note: Do not combine with sulfur or apply within 3 days of a sulfur application. Foliage burn may occur if applied when temperatures exceed 90° F. Do not apply to Calmeria or Italia varieties of table grapes. Do not tank mix with gibberellic acid.



MYCOGEN CORPORATION
5451 Oberlin Drive
San Diego, CA 92121
800-745-7476

M-Pede is a trademark of Mycogen Corporation

EPA Registration No. 53219-6



Arande™

INSECTICIDE

FOR COMMERCIAL USE

ACTIVE INGREDIENT

49

INERT INGREDIENTS

51

TOTAL

100

KEEP OUT OF REACH OF CHILDREN

CAUTION

ACCEPTED
with COMMENTS
in EPA Letter Dated:

NOV 23 1992

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, this pesticide is
registered under EPA Reg. No.





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

This product controls sucking insects, aphids, earwigs, lace bugs, leafhoppers, mealybugs, plant hoppers, sawfly larvae, scales, spider mites, and thrips on many ornamental and woody plants. It also controls the larvae of beetles, flies, and moths on many ornamental and woody plants.

This product also provides curative control of powdery mildew on grapes and roses.

RECOMMENDED RATES

INSECTICIDAL USE:

VEGETABLES, HERBS AND SPICES

Root and tuber vegetables	<p>Insects and Mites: For control of whiteflies, aphids, leafhoppers, plant hoppers, spider mites and thrips on the crops listed at left.</p> <p>Rate: Mix 1 part product per 50 parts water or 2 1/2 oz. product per gallon water.</p> <p>Comments: Apply this product when insects first appear, or when damage first occurs. Spray to wet all plant surfaces. Repeat at weekly to biweekly intervals. Flush sprays or rinse foliage to avoid more than three consecutive sprays. Use up to day of harvest. Use includes crops grown in greenhouses and outdoors.</p>
Other vegetables	
Leafy vegetables	
Brassica root vegetables	
Crucifer vegetables	
Cucurbit vegetables	
Asparagus	
Herbs and spices	

FRUIT AND NUT CROPS

Citrus	<p>Insects and Mites: For control of whiteflies, aphids, scale crawlers, pear psylla, pear slug (sawfly larvae), leafhoppers, and spider mites on the crops listed at left.</p> <p>Rate: Mix 1 part product per 50 parts water or 2 1/2 oz. product per gallon water.</p> <p>Comments: Apply this product when insects first appear. Apply to a large enough coverage of foliage to wet all plant surfaces. Repeat at weekly to biweekly intervals. Use up to day of harvest.</p>
Pome fruits	
Stone fruits	
Small fruits and berries	
Tree nuts	

BEST AVAILABLE COPY

OTHER CROPS

597

Cotton	<p>Insects and Mites: For control of whiteflies, aphids, leafhoppers, plant bugs, spider mites and thrips.</p> <p>Rate: In concentrate applications use up to 2 quarts M-Pede per acre alone or in tank mix.</p> <p>Use between 3 to 20 gallons of water per acre.</p> <p>Comments: Apply this product when insects or mites first appear, or when damage first occurs. Spray to wet all infested plant surfaces. Repeat at weekly to biweekly intervals. Rotate sprays or rinse foliage to avoid more than three consecutive sprays. Use up to day of harvest.</p>
Tobacco Hops Peanuts Wheat Coffee Alfalfa Canola Artichokes Watercress Bananas Pineapple	<p>Insects and Mites: For control of whiteflies, aphids, scales, leafhoppers, plant bugs, spider mites and thrips on the crops listed at left.</p> <p>Rate: Mix 1 part product per 50 parts water or 2 1/2 oz. product per gallon water.</p> <p>Comments: Apply this product when insects or mites first appear, or when damage first occurs. Spray to wet all infested plant surfaces. Repeat at weekly to biweekly intervals. Rotate sprays or rinse foliage to avoid more than three consecutive sprays. Use up to day of harvest. Use includes crops grown in greenhouses and outdoors</p>

ORNAMENTAL LANDSCAPE TREES AND SHRUBS

Insect	Rate	Comments
adelgids, psyllids, scales	1 part product per 50 parts water, or 2 1/2 oz. product per gallon of water.	Spray to wet bark surface.
spider mites	1 part product per 50 parts water, or 2 1/2 oz. product per gallon of water.	Wet underside of leaves and needle sheaths.
tent caterpillars	1 part product per 30 parts water, or 4 oz. product per gallon of water.	Spray directly on young larvae when congregated on outside of tent.
baisam woolly aphid	1 part product per 80 parts water, or 1 1/2 oz. product per gallon of water.	Spray trees thoroughly when crawlers are abundant in early spring and/or fall. Make a second application after 10 days.
spruce woolly aphid	1 part product per 25 parts water, or 5 oz. product per gallon of water.	Spray spruce in fall or spring when females begin egg laying.
conifer and pine needle scale	1 part product per 40 parts water, or 3 oz. product per gallon of water.	When insects first appear, spray thoroughly wet foliage.

NOTE: Do not apply to horse chestnut, Japanese maple or mountain ash. Do not apply to evergreens during drought or when tender new foliage is present.

FLOWERS, BEDDING AND INDOOR PLANTS

For control of adelgids, aphids, earwigs, lace bugs, leafhoppers, mealybugs, plant bugs, psyllids, scales, spider mites, thrips, and whiteflies on plants listed below.

Crop	Rate	Comments
ornamentals grown outdoors or in greenhouses	1 part product per 50 parts water, or 2 1/2 oz. product per gallon of water.	Apply when insects first appear. Thoroughly wet all infested plant surfaces. Repeat weekly as needed. For earwigs, spray directly on insects after disturbing their hiding place.
indoor plants	1 part product per 50 parts water, or 2 1/2 oz. product per gallon of water.	Thoroughly wet all surfaces of infested foliage and branches. For aphids, examine plants after 2 days and spray again if needed. For other pests, spray weekly as needed. For blossom thrips on African violets, spray to contact thrips on blooms.

NOTE: Rotate sprays or rinse foliage to avoid more than 3 consecutive sprays. Do not use on bleeding heart, gardenia, jade plant, lantana or sweetpeas or Crown of Thorns. Test other euphorbia for phytotoxicity before full scale application. Test first on azaleas, begonias, camellias, fuchsias, impatiens, delicate ferns, ornamental ivies, palms or succulents. If wilting occurs within a few hours, rinse with clean water spray.

TURF

Turf	<p>Insects: For control of mole crickets, chinch bugs, sod webworms, fleas, grubs.</p> <p>Rate: Mix 1 part product per 50 parts water or 2 1/2 oz. product per gallon water.</p> <p>Comments: Apply in a total water volume of 100 gpa. For best results, an irrigation equal to 600 gal. per 1000 sq. ft. should be applied immediately following treatment.</p>
------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

FUNGICIDAL USE:

This product provides curative control of powdery mildew on plants listed below.

Crop	Rate	Comments
Grapes	Mix 1 to 2 parts product per 100 parts water. Use the higher rates and higher volumes when powdery mildew pressure is high.	Best results are obtained by initiating applications at bud break. To be effective, M-Pede must come into direct contact with the powdery mildew fungus. Complete coverage of upper and lower leaf surfaces as well as grape clusters is essential. Application of 100 to 150 gallons of water per acre normally provides adequate coverage. Apply every 7 to 14 days, or as needed. This product may alter the waxy bloom and/or cause marking on the surface of grapes that can affect the quality rating of table grapes at harvest.
Roses	Mix 1 to 2 parts product per 100 parts water. Use the higher rates if powdery mildew infections become heavy.	To be effective, M-Pede must come into direct contact with the powdery mildew fungus. Complete coverage of upper and lower leaf surfaces as well as canes is essential. Apply every 7 days, or as needed. Rotate sprays or rinse foliage with water to avoid more than 3 consecutive sprays.

Note: Do not combine with sulfur or apply within 3 days of a sulfur application. Foliage burn may occur if applied when temperatures exceed 90° F. Do not apply to Calmeria or Italia varieties of table grapes. Do not tank mix with gibberellic acid.

STORAGE AND DISPOSAL

Do not contaminate water, feed or foodstuff by storage or disposal.

Storage: Keep container tightly sealed when not in use. Store only in original container, in a dry place inaccessible to children and pets.

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 a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. 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.



Mycogen Corporation
5451 Oberlin Drive
San Diego, California 92121
(800) 745-7476