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M-PEDE[®]

INSECTICIDE

ACCEPTED
with COMMENTS
in EPA Letter Dated

NOV 16 1993

FOR COMMERCIAL USE

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
53219-6

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. 907-TN-01 4091-CA-01 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)

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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 adelgids, aphids, earwigs, lace bugs, leafhoppers, mealybugs, plant bugs, psyllids, sawfly larvae, scales, spider mites, tent caterpillars, thrips, whitefly and woolly aphids on vegetables, fruits, tree nuts, shrubs, trees, foliage plants and flowers.

This product can be applied up to harvest.

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

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

MIXING AND APPLICATION

For best results, use freshly mixed solution with soft water. If water has a high mineral content, check for compatibility. If needed, soften water with an approved softening agent before adding this product. A defoaming agent may be needed for use in sprayers equipped with an agitator.

Do not use on new transplants, unrooted cuttings or plants stressed by drought. Avoid application when leaf temperature exceeds 90°F.

When combined with other pesticides:

This product may be combined with other pesticides to broaden the target spectrum. Such use must conform to use precautions and directions for use of both products. This product should be tank mixed at a rate of 1 to 2 parts product per 100 parts of spray solution containing the companion pesticide.

Recommended Rates:

INSECTICIDAL USE

VEGETABLES, HERBS AND SPICES

Root and tuber vegetables such as: potato, radish, sugar beet	Insects and Mites: For control of whiteflies, aphids, leafhoppers, plant bugs, spider mites and thrips on the crops listed at left.
Bulb vegetables such as: onion, garlic	Rate: Mix 1 part product per 50 parts water or 2 ½ oz. product per gallon water.
Leafy vegetables such as: lettuce, celery, spinach	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
Brassica (cole) vegetables such as: broccoli, brussels sprouts, cabbage, Chinese cabbage/bok choy, kale	
Legume vegetables such as: beans, peas, soybeans	
Fruiting vegetables such as: eggplant, pepper, tomato	
Cucurbit vegetables such as: cucumber, melon, summer squash	
Asparagus	
Herbs and spices such as: basil, chives, dill, marjoram, sage	

OTHER CROPS

Cotton	Insects and Mites: For control of whiteflies, aphids, leafhoppers, plant bugs, spider mites and thrips. Rate: In concentrate applications use up to 2 quarts M-Pede per acre alone or in tank mix. Use between 3 to 20 gallons of water per acre. 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.
Tobacco Hops Peanuts Wheat Coffee Alfalfa Canola Artichokes Watercress Bananas Pineapple	Insects and Mites: For control of whiteflies, aphids, scales, leafhoppers, plant bugs, spider mites and thrips on the crops listed at left. Rate: Mix 1 part product per 50 parts water or 2 ½ oz. product per gallon water. 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.

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FRUIT AND NUT CROPS

Citrus such as: orange, lemon, grapefruit	<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 ½ oz. product per gallon water.</p> <p>Comments: Apply this product when insects first appear. Apply to achieve thorough coverage of infested foliage and/or branches. Repeat at weekly intervals as needed. Avoid spraying when the blossoms are present. Use up to day of harvest.</p>
Pome fruits such as: apples, pears	
Stone fruits such as cherry, peach, plum	
Small fruits and berries such as: blackberry, cranberry, grape, strawberry	
Tree nuts such as: English walnut, pecan	

NOTE: If sooty mold is present on citrus, some marking of fruit may occur. Some marking of fruit may occur in some pome fruit varieties.

ORNAMENTAL LANDSCAPE TREES AND SHRUBS

Insect	Rate	Comments
adelgids, psyllids, scales	1 part product per 50 parts water, or 2½ oz. product per gallon of water	Spray to wet bark surface
spider mites	1 part product per 50 parts water, or 2½ 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.
balsam woolly aphid	1 part product per 30 parts water, or 1½ 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 to 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 AND BEDDING

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 2½ oz. product per gallon of water	<p>Apply when insects first appear. Thoroughly wet all infested plant surfaces. Repeat weekly as needed.</p> <p>For earwigs, spray directly on insects after disturbing their hiding place.</p>
indoor plants	1 part product per 50 parts water, or 2½ oz. product per gallon of water	<p>Thoroughly wet all surfaces of infested foliage and branches. For aphids, examine plants after two days and spray again if needed. For other pests, spray weekly as needed.</p> <p>For blossom thrips on African violets, spray to contact thrips on blooms.</p>

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.

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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>
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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. Application of 100 to 150 gallons of water per acre normally provides adequate coverage. 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, this product 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. 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.	Begin application at first appearance of disease. To be effective, this product 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 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 purposes 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.

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statements of 40 CFR 156, published in the FEDERAL REGISTER of August 21, 1992 (57 FR 38102). Under the WPS labeling regulations at 40 CFR 156, subpart K, § 156.200(c)(3), you are prohibited from distributing or selling any product within the scope of the WPS requirements after April 21, 1994, without amended labeling accepted by the Agency.

If you have any questions about this letter, contact Barbara Madden at (703) 305-5410 or (703) 305-6600.

Sincerely yours,

Robert A. Forrest
Product Manager (14)
Insecticide-Rodenticide Branch
Registration Division (7504C)

enclosure

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							

NOV 16 1993

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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 14, 1993

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. Make the labeling change listed below before you release the product for shipment bearing the revised labeling:

- a. According to our files the Environmental Hazards statement under the Precautionary Statements must 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."

2. Submit a copy of your final printed labeling before you release the product for shipment.

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 constitutes acceptance of these conditions.

A stamped copy of the approved label is enclosed for your records.

Note that this acceptance of your label does not relieve you of your obligation to comply with the Worker Protection Standard (WPS). If any of your products are covered by the WPS, you are required to submit, **and receive the Agency's approval** by April 21, 1994, of a revised label reflecting the required label

Madden Disk #2 11/14/93