

US ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF PESTICIDES PROGRAMS
REGISTRATION DIVISION (TS-767)
WASHINGTON, DC 20460

EPA REGISTRATION NO.

51036-221

DATE OF ISSUANCE

AUG 24 1995

TERM OF ISSUANCE

NOTICE OF PESTICIDE: ☒ REGISTRATION
☐ REREGISTRATION

(Under the Federal Insecticide, Fungicide,
and Rodenticide Act, as amended)

NAME OF PESTICIDE PRODUCT

40% Insecticidal Soap

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Morris Gaskins
Micro Flo Co.
P.O. Box 5948
Lakeland, FL 33807

5491369 161
38
5490470 161
18

NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) section 3(c)(7). The conditions are as follows:

1. The study entitled "40% Soap Salt: An Acute Contact Toxicity Study With The Honey Bee" is still under review with the Agency. You will be notified of the outcome of this review as soon as it is available.
2. Make the labeling changes listed below before you release the product for shipment:
 - a. Revise the EPA Registration Number to read, "EPA Reg. No. 51036-221."
3. Submit one copy of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

☐ ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

R. A. F.

DATE

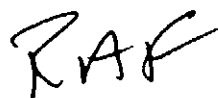
AUG 24 1995

-2-

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 label is enclosed for your records.

Sincerely yours,



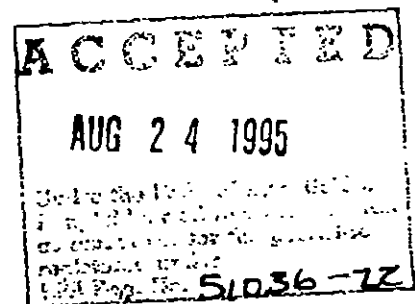
Robert A. Forrest
Product Manager (14)
Insecticide-Rodenticide Branch
Registration Division (7505C)

Enclosure: 1) Stamped label
 2) A-79 Enclosure

51036 221

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Revised draft label in response to Agency letter of June 30, 1995.



40% INSECTICIDAL SOAP

FOR USE ON
FRUITS, NUTS, VEGETABLES AND ORNAMENTALS

ACTIVE INGREDIENTS:	BY WT.
Potassium salts of fatty acids.....	40.0%
INERT INGREDIENTS:.....	60.0%
TOTAL:	100.0%

KEEP OUT OF REACH OF CHILDREN

CAUTION

STATEMENT OF PRACTICAL TREATMENT

IF IN EYES: Flush eyes with plenty of water. Call a physician if irritation persists.
IF ON SKIN: Wash with plenty of soap and water. Get medical attention.
IF SWALLOWED: Drink large quantities of water.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

Causes eye irritation. Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Prolonged or frequently repeated contact may cause allergic reactions in some individuals.

EPA Reg. No. 51036-EER

EPA Est. No. 51036-GA-1

NET CONTENTS: 2.5 gallons

Manufactured by:
MICRO FLO CO.
P.O. BOX 5948
LAKELAND, FL 33807

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:

1. Long-sleeved shirt and long pants
2. Waterproof gloves
3. Shoes plus socks
4. Protective eyewear

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should:

1. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet
2. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing

ENVIRONMENTAL HAZARDS

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.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

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. Do not reuse empty container. Rinse thoroughly before discarding in trash.

DIRECTIONS FOR USE

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

For best results use freshly mixed solution. Use soft water whenever possible. If water has a high mineral content and produces soap scale, pretreat water with an approved softening agent or a pesticide compatibility agent before adding concentrate. To prevent or minimize foaming, avoid use of mechanical agitation, place filing hose below surface of spray solution, terminate by-pass and return lines at bottom of tank; if needed use approved antifoam or defoaming agent. CAUTION: Do not use on new transplants, newly rooted cuttings or plants stressed by drought. Avoid application when leaf temperature exceeds 90F.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment and restricted-entry intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated such as plants, soil, or water, is:

1. Coveralls
2. Waterproof gloves
3. Shoes plus socks
4. Protective eyewear

NON-AGRICULTURAL USE REQUIREMENT

The requirement in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Keep children, pets, and other unprotected persons out of treated areas until sprays have dried.

40% Insecticidal Soap is an effective contact insecticide, that is ideal for use in areas such as parks, restaurants, hospitals, school grounds, malls and other public places, as well as in agricultural, horticultural and greenhouse applications.

40% Insecticidal Soap effectively controls:

Adelgids	Mealybugs	Spider Mites
Aphids	Plant Bugs	Tent Caterpillars
Earwigs	Psyllids	Thrips
Grasshoppers	Sawfly Larvae	Whitefly
Lace Bugs	Scales	Woolly Aphids
Leafhoppers		

WHEN USED ALONE

40% Insecticidal Soap may be used up to and including day of harvest, and is useful as a component of integrated Pest Management (IPM) programs.

Dilute at the rate of 2 gallons of concentrate to 100 gallons of water, except as noted in individual sections. Apply according to the rates and other directions given under the individual crop groupings. Spray should be applied to thoroughly wet all infested surfaces.

WHEN COMBINED WITH OTHER PESTICIDES

40% Insecticidal Soap may be combined with other pesticides to broaden the target spectrum, improve the level of kill and enhance coverage. Such use should conform to accepted use precautions and directions for use of both products. Insecticide concentrate may be tank mixed by adding 1 gallon of concentrate per 100 gallons of spray containing the label amount of the companion pesticide or less, except where prohibited by local regulations. Products with which it may be tank mixed include *Bacillus Thuringiensis*, pyrethrum, and a variety of petrochemical-based pesticides. Observe all limitations and precautions on labels of pesticides to be combined with.

INDOOR PLANTS

Mix one part concentrate with 50 parts water, or 2.5 fl. oz. per gallon. Apply when insects or signs of their damage appear. Take care to 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 at 7 to 10 day intervals as needed up to three times. Do not make repeated sprays at short intervals without thoroughly rinsing foliage. For blossom thrips on African violets spray to contact thrips on the blooms. Root mealybug and springtail infestations can be reduced using a soil drench of one to two tablespoons of concentrate in a quart of tepid water applied monthly.

NOTE: Do not use on Crown of Thorns and test other euphorbias for phytotoxicity before full-scale application. Do not use on, dracaena, delicate ferns, dieffenbachia, ornamental ivies, palms or succulents without testing.

FLOWERS AND BEDDING PLANTS GROWING OUTDOORS AND IN GREENHOUSES

Roses and Succulents:

Mix 2.0 gallons of concentrate per 100 gallons of water or 2.5 fl. oz. per gallon. Apply when insects appear. Take care to thoroughly wet all infested surfaces. A second application should be timed to control newly hatched young. Repeat weekly as needed up to three times. For earwigs spray directly on insects after disturbing their hiding place.

NOTE: Do not use on bleeding heart, jade plant, lantana, lilies or sweetpeas. Some varieties of azaleas, begonias, camellias, fuchsias, gardenias and impatiens have shown sensitivity. If wilting occurs within a few hours rinse with clean water spray. Do not apply to poinsettias after bract coloration begins. Test on chrysanthemums for varietal sensitivity and do not apply to open blooms.

40% Insecticidal Soap mixed 2.0 gallons per 100 gallons of water may be used as a soil drench to control listed pests in the growing medium of container grown plants.

ORNAMENTAL LANDSCAPE TREES AND SHRUBS

Christmas trees, Shade trees, herbaceous plants, and ornamental plantings in parks, gardens and along rights-of-way.

Mix 2.0 gallons of concentrate per 100 gallons of water or 2.5 fl. oz. per gallon. To control the crawler stage of adelgids, psyllids and scales spray to wet bark surface when infestation warfants. For mites and other listed pests, be sure to wet underside of leaves and needle sheaths. For tent caterpillars, mix 1 gallon of concentrate to 30 gallons of water or 4 fl. oz. per gallon and spray directly on young larvae when congregated on outside of tent.

To control Balsam Woolly Aphid on true firs (*Abies* spp) mix one gallon of concentrate to 80 gallons of water or approximately 1.5 fl. oz. per gallon. Spray trees thoroughly when crawlers are abundant in early spring and/or fall. For best results make a second application after ten days.

To control Spruce Woolly Aphid mix 1 gallon of concentrate to 25 gallons of water or 5 fl. oz. per gallon. Spray spruce thoroughly in fall or spring before females begin egg laying; on Douglas fir spray before bud break or in the fall after foliage has hardened off.

To control conifer aphids, sawfly larvae and pine needle scale mix 1 gallon of concentrate per 40 gallons of water or 3 fl. oz. per gallon and spray to thoroughly wet foliage when insects are present.

NOTE; Do not apply to chestnut, Japanese maple, mountain ash or Colorado blue spruce. Do not apply to ornamentals stressed by drought or when tender new foliage is present. Do not apply when leaf temperature exceeds 90F. Test on Arbovitae, Eugenia and Euonymus for varietal and drought sensitivity.

40% Insecticidal Soap sprays may result in the temporary removal of the glaucous bloom from spruces.

To suppress gypsy moth populations, prevent egg hatch by applying a spray solution of 1 quart concentrate to 3 quarts of water directly to egg masses; do not allow spray to contact plant foliage.

VEGETABLES GROWING OUTDOORS AND IN GREENHOUSES

NOTE: Pre-Harvest Interval denoted on () after each use site.

Mix 2.0 gallons of concentrate to 100 gallons water or 2.5 fl. oz. per gallon. Apply when insect or mite populations attain spray threshold. Spray to wet all infested plant surfaces. Application volume per acre sprayed will vary according to size and growth form of plants. Row crops will typically require 50 to 150 gallons of spray per acre. For most pests repeat application after several days to eliminate newly hatched individuals. Do not make more than 3 sequential applications over a two week period. May be used up to day of harvest.

NOTE: Do not apply during heat of the day or when leaf temperature exceeds 90F.

Asparagus: (0)

To control aphids, whitefly and mites spray when insects appear and repeat at weekly intervals as needed.

Minimum interval between applications is 7 days.

Beans: (0)

To control aphids, grasshoppers, whitefly and spider mites.

Minimum interval between applications is 7 days.

Broccoli: (0)

To control leafhoppers, plant bugs and whitefly and to suppress aphids.

NOTE: Do not spray crop prior to application of, or tank mix with a topically applied liquid nitrogen fertilizer.

Minimum interval between applications is 7 days.

Brussels sprouts: (0)

To control leafhoppers, plant bugs and whitefly and to suppress aphids.

NOTE: Do not spray crop prior to application of, or tank mix with a topically applied liquid nitrogen fertilizer.

Minimum interval between applications is 7 days.

Cabbage: (0)

To control leafhoppers, plant bugs and whitefly and to suppress aphids.

NOTE: Do not spray crop prior to application of, or tank mix with a topically applied liquid nitrogen fertilizer.

Minimum interval between applications is 7 days.

Carrot: (0)

To suppress aphids, and control leafhoppers, plant bugs and whitefly.

No minimum interval between applications.

Cauliflower: (0)

To suppress aphids and control leafhoppers, plant bugs and whitefly.

Minimum interval between applications is 7 days.

Celery: (0)

To control whitefly and mites and to suppress aphids.

Minimum interval between applications is 7 days.

Chinese cabbage (Bok Choy): (0)

To control leafhoppers, plant bugs and whitefly and to suppress aphids.

NOTE: Do not spray crop prior to application of, or tank mix with a topically applied liquid nitrogen fertilizer.

Minimum interval between applications is 7 days.

Cucumber: (0)

To control plant bugs and whitefly and suppress aphids and mites. Always apply to cucumbers at night or during the coolest part of the day.

No minimum interval between applications.

Eggplant: (0)

To control whitefly and spider mites and to suppress aphids.

No minimum interval between applications.

Kale: (0)

To control leafhoppers, plant bugs and whitefly and to suppress aphids.

NOTE: Do not spray crop prior to application of, or tank mix with a topically applied liquid nitrogen fertilizer.

Minimum interval between applications is 7 days.

Lettuce: (0)

To control whitefly and mites and to suppress aphids.

Minimum interval between applications is 7 days.

Melons: (0)

To control plant bugs and whitefly and suppress aphids and mites.

No minimum interval between applications.

Peas: (0)

To control aphids, grasshoppers, whitefly and spider mites.
Minimum interval between applications is 7 days.

Pepper: (0)

To control whitefly and spider mites and to suppress aphids.
No minimum interval between applications.

Potato: (0)

To suppress aphids, and control leafhoppers, plant bugs and whitefly.

No minimum interval between applications.

Radish: (0)

To suppress aphids, and control leafhoppers, plant bugs and whitefly.

No minimum interval between applications.

Spinach: (0)

To control whitefly and mites and to suppress aphids.

Minimum interval between applications is 7 days.

Squash: (0)

To control plant bugs and whitefly and suppress aphids and mites.

No minimum interval between applications.

Sugar beet: (0)

To suppress aphids, and control leafhoppers, plant bugs and whitefly.

No minimum interval between applications.

Tomato: (0)

To control whitefly and spider mites and to suppress aphids.

No minimum interval between applications.

FRUIT AND NUTS

NOTE: Pre-Harvest Interval denoted on () after each use site.

Mix 2.0 gallons of concentrate to 100 gallons of water or 2.5 fl. oz. per gallon. Spray when insects or mites first appear or when their populations attain spray level. Apply to achieve thorough coverage of infested foliage and/or branches. Repeat at weekly intervals as needed. Avoid spraying when blossoms are present. Use up to day of harvest.

Apple: (0)

To control leaf hoppers, scale crawlers and to suppress aphids and mites.

NOTE: Spray may cause localized marking of some varieties as red and golden delicious and Gravenstein.

Minimum interval between applications is 7 days.

Blackberry: (0)

To control Leafhoppers, mealybugs, scales and whitefly and to suppress aphids and mites.

Minimum interval between applications is 7 days.

Cherry: (0)

To control scale insects and suppress aphids and mites.

Minimum interval between applications is 7 days.

Citrus (sweet orange, lemon and grapefruit): (0)

To control aphids, cottony cushion scale, black scale, red scale and mites.

NOTE: Some marking of fruit may occur, especially when spray run-off occurs or when sooty mold is present.

Minimum interval between applications is 7 days.

Coffee: (0)

To control Leafhoppers, mealybugs, scales and whitefly and to suppress aphids and mites.

Minimum interval between applications is 7 days.

Cranberry: (0)

To control Leafhoppers, mealybugs, scales and whitefly and to suppress aphids and mites.

Minimum interval between applications is 7 days.

Grape: (0)

To control Leafhoppers, mealybugs, scales and whitefly and to suppress aphids and mites.

NOTE: Do not spray grapes during the period between the start of blooming and 2 to 3 days post shatter. Applications made with dilute spray equipment (more than 75 gallons of spray per acre) and/or tank mixes containing sulfur may mark fruit of grapes; dilute applications are not recommended on varieties being grown for the fresh produce market including but not limited to flames, globes and perlettes as marking of fruits may occur. Do not use on Labrusca varieties or Italia and Calmeria varieties grown for the fresh market.

Minimum interval between applications is 7 days.

Nectarines: (0)

To control scale insects and suppress aphids and mites.

NOTE: Spray may cause localized spotting of nectarines and may remove wax bloom from plums.

Minimum interval between applications is 7 days.

Peach: (0)

To control scale insects and suppress aphids and mites.

Minimum interval between applications is 7 days.

Pear: (0)

To control leaf hoppers, scale crawlers, pear psylla, pear slug

(Tenthredinidae) and to suppress aphids and mites.

NOTE: Spray may cause localized marking of some varieties such as d'Anjou, Comice and Asian.

Minimum interval between applications is 7 days.

Plums: (0)

To control scale insects and suppress aphids and mites.

Minimum interval between applications is 7 days.

Strawberry: (0)

To control Leafhoppers, mealybugs, scales and whitefly and to suppress aphids and mites.

Minimum interval between applications is 7 days.

TREE NUTS

NOTE: Pre-Harvest Interval denoted on () after each use site.

Almond: (0)

To control scale crawlers and suppress aphids and mites.

Minimum interval between applications is 7 days.

Walnut: (0)

To control scale crawlers and suppress aphids and mites.

Minimum interval between applications is 7 days.

Pecan: (0)

To control scale crawlers and suppress aphids and mites.

Minimum interval between applications is 7 days.

FIELD CROPS

NOTE: Pre-Harvest Interval denoted on () after each use site.

Alfalfa: (0)

To control aphids, grasshoppers, leafhoppers and plant bugs.

Minimum interval between applications is 7 days.

Cotton: (0)

To control aphids, whitefly and mites spray when insects appear and repeat at weekly intervals as needed.

Minimum interval between applications is 7 days.

Soybeans: (0)

To control aphids, grasshoppers, whitefly and spider mites.

Minimum interval between applications is 7 days.

POST-HARVEST APPLICATIONS

40% Insecticidal Soap may be used alone or in tank mixes to control or suppress insect and mite pests of perennial crop plants after harvest has been completed.

Post-harvest applications provide a means of reducing residual populations, and are a useful component of IPM programs.

US ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF PESTICIDES PROGRAMS
REGISTRATION DIVISION (75-767)
WASHINGTON, DC 20460

EPA REGISTRATION NO.

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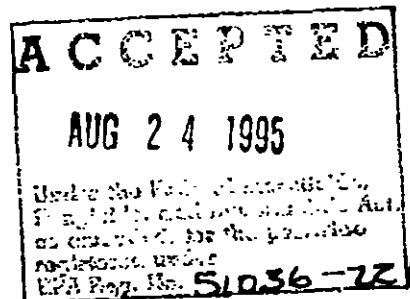
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Robert A. Forrest
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P.O. BOX 5948
LAKE LAND, FL 33807

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STORAGE AND DISPOSAL

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5' 3

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WHEN USED ALONE

40% Insecticidal Soap may be used up to and including day of harvest, and is useful as a component of integrated Pest Management (IPM) programs.

Dilute at the rate of 2 gallons of concentrate to 100 gallons of water, except as noted in individual sections. Apply according to the rates and other directions given under the individual crop groupings. Spray should be applied to thoroughly wet all infested surfaces.

WHEN COMBINED WITH OTHER PESTICIDES

40% Insecticidal Soap may be combined with other pesticides to broaden the target spectrum, improve the level of kill and enhance coverage. Such use should conform to accepted use precautions and directions for use of both products. Insecticide concentrate may be tank mixed by adding 1 gallon of concentrate per 100 gallons of spray containing the label amount of the companion pesticide or less, except where prohibited by local regulations. Products with which it may be tank mixed include *Bacillus Thuringiensis*, pyrethrum, and a variety of petrochemical-based pesticides. Observe all limitations and precautions on labels of pesticides to be combined with.

INDOOR PLANTS

Mix one part concentrate with 50 parts water, or 2.5 fl. oz. per gallon. Apply when insects or signs of their damage appear. Take care to 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 at 7 to 10 day intervals as needed up to three times. Do not make repeated sprays at short intervals without thoroughly rinsing foliage. For blossom thrips on African violets spray to contact thrips on the blooms. Root mealybug and springtail infestations can be reduced using a soil drench of one to two tablespoons of concentrate in a quart of tepid water applied monthly.

NOTE: Do not use on Crown of Thorns and test other euphorbias for phytotoxicity before full-scale application. Do not use on, dracaena, delicate ferns, dieffenbachia, ornamental ivies, palms or succulents without testing.

FLOWERS AND BEDDING PLANTS GROWING OUTDOORS AND IN GREENHOUSES

Roses and Succulents:

Mix 2.0 gallons of concentrate per 100 gallons of water or 2.5 fl. oz. per gallon. Apply when insects appear. Take care to thoroughly wet all infested surfaces. A second application should be timed to control newly hatched young. Repeat weekly as needed up to three times. For earwigs spray directly on insects after disturbing their hiding place.

NOTE: Do not use on bleeding heart, jade plant, lantana, lilies or sweetpeas. Some varieties of azaleas, begonias, camellias, fuchsias, gardenias and impatiens have shown sensitivity. If wilting occurs within a few hours rinse with clean water spray. Do not apply to poinsettias after bract coloration begins. Test on chrysanthemums for varietal sensitivity and do not apply to open blooms.

40% Insecticidal Soap mixed 2.0 gallons per 100 gallons of water may be used as a soil drench to control listed pests in the growing medium of container grown plants.

ORNAMENTAL LANDSCAPE TREES AND SHRUBS

Christmas trees, Shade trees, herbaceous plants, and ornamental plantings in parks, gardens and along rights-of-way.

Mix 2.0 gallons of concentrate per 100 gallons of water or 2.5 fl. oz. per gallon. To control the crawler stage of adelgids, psyllids and scales spray to wet bark surface when infestation warrants. For mites and other listed pests, be sure to wet underside of leaves and needle sheaths. For tent caterpillars, mix 1 gallon of concentrate to 30 gallons of water or 4 fl. oz. per gallon and spray directly on young larvae when congregated on outside of tent.

To control Balsam Woolly Aphid on true firs (*Abies* spp) mix one gallon of concentrate to 80 gallons of water or approximately 1.5 fl. oz. per gallon. Spray trees thoroughly when crawlers are abundant in early spring and/or fall. For best results make a second application after ten days.

To control Spruce Woolly Aphid mix 1 gallon of concentrate to 25 gallons of water or 5 fl. oz. per gallon. Spray spruce thoroughly in fall or spring before females begin egg laying; on Douglas fir spray before bud break or in the fall after foliage has hardened off.

To control conifer aphids, sawfly larvae and pine needle scale mix 1 gallon of concentrate per 40 gallons of water or 3 fl. oz. per gallon and spray to thoroughly wet foliage when insects are present.

NOTE; Do not apply to chestnut, Japanese maple, mountain ash or Colorado blue spruce. Do not apply to ornamentals stressed by drought or when tender new foliage is present. Do not apply when leaf temperature exceeds 90F. Test on Arbovitae, Eugenia and Euonymus for varietal and drought sensitivity.

40% Insecticidal Soap sprays may result in the temporary removal of the glaucous bloom from spruces.

To suppress gypsy moth populations, prevent egg hatch by applying a spray solution of 1 quart concentrate to 3 quarts of water directly to egg masses; do not allow spray to contact plant foliage.

VEGETABLES GROWING OUTDOORS AND IN GREENHOUSES

NOTE: Pre-Harvest Interval denoted on () after each use site.

Mix 2.0 gallons of concentrate to 100 gallons water or 2.5 fl. oz. per gallon. Apply when insect or mite populations attain spray threshold. Spray to wet all infested plant surfaces. Application volume per acre sprayed will vary according to size and growth form of plants. Row crops will typically require 50 to 150 gallons of spray per acre. For most pests repeat application after several days to eliminate newly hatched individuals. Do not make more than 3 sequential applications over a two week period. May be used up to day of harvest.

NOTE: Do not apply during heat of the day or when leaf temperature exceeds 90F.

Asparagus: (0)

To control aphids, whitefly and mites spray when insects appear and repeat at weekly intervals as needed.

Minimum interval between applications is 7 days.

Beans: (0)

To control aphids, grasshoppers, whitefly and spider mites.

Minimum interval between applications is 7 days.

Broccoli: (0)

To control leafhoppers, plant bugs and whitefly and to suppress aphids.

NOTE: Do not spray crop prior to application of, or tank mix with a topically applied liquid nitrogen fertilizer.

Minimum interval between applications is 7 days.

Brussels sprouts: (0)

To control leafhoppers, plant bugs and whitefly and to suppress aphids.

NOTE: Do not spray crop prior to application of, or tank mix with a topically applied liquid nitrogen fertilizer.

Minimum interval between applications is 7 days.

Cabbage: (0)

To control leafhoppers, plant bugs and whitefly and to suppress aphids.

NOTE: Do not spray crop prior to application of, or tank mix with a topically applied liquid nitrogen fertilizer.

Minimum interval between applications is 7 days.

Carrot: (0)

To suppress aphids, and control leafhoppers, plant bugs and whitefly.

No minimum interval between applications.

Cauliflower: (0)

To suppress aphids and control leafhoppers, plant bugs and whitefly.

Minimum interval between applications is 7 days.

Celery: (0)

To control whitefly and mites and to suppress aphids.

Minimum interval between applications is 7 days.

Chinese cabbage (Bok Choy): (0)

To control leafhoppers, plant bugs and whitefly and to suppress aphids.

NOTE: Do not spray crop prior to application of, or tank mix with a topically applied liquid nitrogen fertilizer.

Minimum interval between applications is 7 days.

Cucumber: (0)

To control plant bugs and whitefly and suppress aphids and mites. Always apply to cucumbers at night or during the coolest part of the day.

No minimum interval between applications.

Eggplant: (0)

To control whitefly and spider mites and to suppress aphids.

No minimum interval between applications.

Kale: (0)

To control leafhoppers, plant bugs and whitefly and to suppress aphids.

NOTE: Do not spray crop prior to application of, or tank mix with a topically applied liquid nitrogen fertilizer.

Minimum interval between applications is 7 days.

Lettuce: (0)

To control whitefly and mites and to suppress aphids.

Minimum interval between applications is 7 days.

Melons: (0)

To control plant bugs and whitefly and suppress aphids and mites.

No minimum interval between applications.

Peas: (0)

To control aphids, grasshoppers, whitefly and spider mites.
Minimum interval between applications is 7 days.

Pepper: (0)

To control whitefly and spider mites and to suppress aphids.
No minimum interval between applications.

Potato: (0)

To suppress aphids, and control leafhoppers, plant bugs and whitefly.
No minimum interval between applications.

Radish: (0)

To suppress aphids, and control leafhoppers, plant bugs and whitefly.
No minimum interval between applications.

Spinach: (0)

To control whitefly and mites and to suppress aphids.
Minimum interval between applications is 7 days.

Squash: (0)

To control plant bugs and whitefly and suppress aphids and mites.
No minimum interval between applications.

Sugar beet: (0)

To suppress aphids, and control leafhoppers, plant bugs and whitefly.
No minimum interval between applications.

Tomato: (0)

To control whitefly and spider mites and to suppress aphids.
No minimum interval between applications.

FRUIT AND NUTS

NOTE: Pre-Harvest Interval denoted on () after each use site.

Mix 2.0 gallons of concentrate to 100 gallons of water or 2.5 fl. oz. per gallon. Spray when insects or mites first appear or when their populations attain spray level. Apply to achieve thorough coverage of infested foliage and/or branches. Repeat at weekly intervals as needed. Avoid spraying when blossoms are present. Use up to day of harvest.

Apple: (0)

To control leaf hoppers, scale crawlers and to suppress aphids and mites.

NOTE: Spray may cause localized marking of some varieties as red and golden delicious and Gravenstein.

Minimum interval between applications is 7 days.

Blackberry: (0)

To control Leafhoppers, mealybugs, scales and whitefly and to suppress aphids and mites.

Minimum interval between applications is 7 days.

Cherry: (0)

To control scale insects and suppress aphids and mites.

Minimum interval between applications is 7 days.

Citrus (sweet orange, lemon and grapefruit): (0)

To control aphids, cottony cushion scale, black scale, red scale and mites.

NOTE: Some marking of fruit may occur, especially when spray run-off occurs or when sooty mold is present.

Minimum interval between applications is 7 days.

Coffee: (0)

To control Leafhoppers, mealybugs, scales and whitefly and to suppress aphids and mites.

Minimum interval between applications is 7 days.

Cranberry: (0)

To control Leafhoppers, mealybugs, scales and whitefly and to suppress aphids and mites.

Minimum interval between applications is 7 days.

Grape: (0)

To control Leafhoppers, mealybugs, scales and whitefly and to suppress aphids and mites.

NOTE: Do not spray grapes during the period between the start of blooming and 2 to 3 days post shatter. Applications made with dilute spray equipment (more than 75 gallons of spray per acre) and/or tank mixes containing sulfur may mark fruit of grapes; dilute applications are not recommended on varieties being grown for the fresh produce market including but not limited to flames, globes and perlettes as marking of fruits may occur. Do not use on Labrusca varieties or Italia and Calmeria varieties grown for the fresh market.

Minimum interval between applications is 7 days.

Nectarines: (0)

To control scale insects and suppress aphids and mites.

NOTE: Spray may cause localized spotting of nectarines and may remove wax bloom from plums.

Minimum interval between applications is 7 days.

Peach: (0)

To control scale insects and suppress aphids and mites.

Minimum interval between applications is 7 days.

Pear: (0)

To control leaf hoppers, scale crawlers, pear psylla, pear slug

(Tenthredinidae) and to suppress aphids and mites.

NOTE: Spray may cause localized marking of some varieties such as d'Anjou, Comice and Asian.

Minimum interval between applications is 7 days.

Plums: (0)

To control scale insects and suppress aphids and mites.

Minimum interval between applications is 7 days.

Strawberry: (0)

To control Leafhoppers, mealybugs, scales and whitefly and to suppress aphids and mites.

Minimum interval between applications is 7 days.

TREE NUTS

NOTE: Pre-Harvest Interval denoted on () after each use site.

Almond: (0)

To control scale crawlers and suppress aphids and mites.

Minimum interval between applications is 7 days.

Walnut: (0)

To control scale crawlers and suppress aphids and mites.

Minimum interval between applications is 7 days.

Pecan: (0)

To control scale crawlers and suppress aphids and mites.

Minimum interval between applications is 7 days.

FIELD CROPS

NOTE: Pre-Harvest Interval denoted on () after each use site.

Alfalfa: (0)

To control aphids, grasshoppers, leafhoppers and plant bugs.

Minimum interval between applications is 7 days.

Cotton: (0)

To control aphids, whitefly and mites spray when insects appear and repeat at weekly intervals as needed.

Minimum interval between applications is 7 days.

Soybeans: (0)

To control aphids, grasshoppers, whitefly and spider mites.

Minimum interval between applications is 7 days.

POST-HARVEST APPLICATIONS

40% Insecticidal Soap may be used alone or in tank mixes to control or suppress insect and mite pests of perennial crop plants after harvest has been completed.

Post-harvest applications provide a means of reducing residual populations, and are a useful component of IPM programs.

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