

48222-5

7/21/2011

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

Decision # 417843

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1155

Agro-K Corporation
c/o Rivendell Consulting USA, LLC
400 East Jane St.
Valdosta, GA 31601

JUL 21 2011

Attention: Ms. Walancia Jones

Subject Super Insecticidal Soap Concentrate
EPA Reg. No. 48222-5
Your resubmission of June 15, 2011
Decision No. 417843

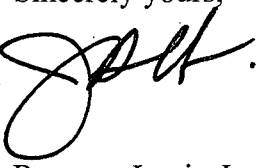
Purpose The submission revises the label for this product, under sec 3 of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), to add "powdery mildew" claims, a new pest for this product and to revise the text for the product generally.

Label The labeling submitted with the above letter, under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) is acceptable, provided you submit one (1) copy of final printed labeling to us, before you ship your product.

Existing stocks Stocks of existing labels may be used for eighteen (18) months.

Consequence for non-compliance 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.

Questions If you have questions about this letter, please contact Dan Peacock at 703-305-5407 (phone) or peacock.dan@epa.gov (E-Mail).

Sincerely yours,


Rosanna Louie-Juzwiak
Product Manager (07)
Insecticide-Rodenticide Branch
Registration Division (7505P)

- Enclosures**
1. Stamped label
 2. Minimum Type Sizes for Final Printed Labels

File Location Dan Peacock, C:\Documents and Settings\dpeacock\Desktop\Backup, 16gb Flash Drive\K Salts of Fatty Acids\48222-5\48222-5, resub 6-15-2011, ltr of 7-6-2011.ver 2.doc

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Kills plant pests including aphids, caterpillars, leafhoppers, mealybugs, spider mites, thrips, whiteflies & other listed insects on indoor plants, outdoor ornamental plants, flowers, shrubs & trees, crops, garden vegetables, fruits & trees and control powdery mildew on listed vegetables

Super Insecticidal Soap Concentrate

Insecticide/Fungicide **ACCEPTED JUL 21 2011**

Active Ingredients: **Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under:**

Potassium Salts of Fatty Acids 0%

Other Ingredients: 0%

Total: 100.0%

**Contains 2 pounds of the active ingredient per gallon

EPA. Reg. No: 48 222-5

**KEEP OUT OF REACH OF CHILDREN
DANGER/PELIGRO**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find some one to explain it to you in detail.)

First Aid	
If in eyes:	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
If on skin or clothing:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	

NET CONTENTS: 2.5 gallon jugs
30 gallon totes
250 gallon drums

Agro-K Corporation
8030 Main St.
Minneapolis, MN 55432

EPA Reg. No. 48222-5

EPA Est. No. 48222-MN-1

PRECAUTIONARY STATEMENTS
Hazard to Humans and Domestic Animals
DANGER

Corrosive. Causes irreversible eye damage. Harmful if absorbed through skin. Do not get in eyes or on clothing. Avoid contact with skin. Wear goggles or safety glasses. Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing before reuse.

Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are listed below. For more information, follow the instructions for category C on an EPA chemical resistance category selection chart.

Handlers who may be exposed to the diluted product through application or other tasks must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks

Handlers who may be exposed to the concentrate through mixing, loading, application, or other tasks must wear:

- Coveralls over short-sleeved shirt and short pants
- Chemical-resistant gloves such as butyl rubber, nitrile rubber, neoprene rubber or PVC
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant head gear for overhead exposure
- Chemical-resistant apron when cleaning equipment, mixing or loading

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE 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, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

STORAGE AND DISPOSAL

Do not contaminate water, feed or food stuff by storage or disposal.

2.5 gallon jugs

Pesticide Storage: Store only in original container, in a cool, dry place inaccessible to children and pets. Keep container tightly sealed. Keep containers closed and away from other chemicals.

Pesticide Disposal: Wastes resulting from the use of this product may be placed in trash or delivered to an approved waste disposal facility.

Container Handling: Nonrefillable container. Do not reuse or refill this container. Triple rinse (or equivalent) then offer for recycling or reconditioning; or puncture and dispose of in a sanitary landfill; or incineration.

30 gallons totes

Pesticide Storage: Store only in original container, in a cool, dry place inaccessible to children and pets. Keep container tightly sealed. Keep containers closed and away from other chemicals.

Pesticide Disposal: Wastes resulting from the use of this product may be placed in trash or delivered to an approved waste disposal facility.

Container Handling: Nonrefillable container. Do not reuse or refill this container. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

250 gallons drums

Pesticide Storage: Store only in original container, in a cool, dry place inaccessible to children and pets. Keep container tightly sealed. Keep containers closed and away from other chemicals.

Pesticide Disposal: Wastes resulting from the use of this product may be placed in trash or delivered to an approved waste disposal facility.

Container Handling: Nonrefillable container. Do not reuse or refill this container. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

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.

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 green houses, 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 (PPE) and restricted-entry interval. 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 into treated areas that is permitted under the Worker Protection Standard and involves contact with any thing that has been treated, such as plants, soil, or water, is:

- Coveralls
- Waterproof gloves
- Shoes plus socks

Non-Agricultural Use Requirements

The requirements 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.

USE RESTRICTIONS

Super Insecticidal Soap Concentrate controls insect pest species on contact, including all kinds of aphids, mealy bugs, psyllids, whiteflies and scale crawlers, adelgids, leaf hoppers, plant hoppers and spittlebugs, lace bugs and plant bugs, earwigs, thrips, caterpillars, sawfly larvae, and spider mites on vegetables, fruits, tree nuts, shrubs, trees, foliage plants and flowers grown outdoors, in greenhouses and interiorscapes. Super Insecticidal Soap Concentrate provides curative control of powdery mildew on listed vegetables and can be applied as an insecticide or a fungicide up to the day of harvest.

Insecticidal/Miticidal and Fungicidal Uses

This product may be used as a foliar spray to control or suppress soft bodied pests which include: adelgid, aphid, ear wig, lace bug, leaf hopper, mealy bug, mole cricket, plant bug, psyllid, saw fly larva, scale, spider mite, tent caterpillar, thrips, white fly, gypsy moth, and chinch bug. This product provides curative control of powdery mildew on listed vegetables.

MIXING DIRECTIONS

pH: Mix with soft water and only use freshly mixed solutions. If pH of water is above 7, use a buffer to achieve neutral water. See "Phytotoxicity (Plant Sensitivity)" in "APPLICATION DIRECTIONS" below.

Rates

- **Dilution Rate:** Super Insecticidal Soap Concentrate rates as low as 0.125% spray solution or as high as 2% may be used. The 1.0% rate is the most frequently used dilution rate.
- Refer to individual sections of this label for specific use rates for control of pests on specific crops.
- The activity of this product is directly related to the solution concentration and to contact with the pest, not the amount of product applied per acre.

Mixing Order

- When using this product in a tank-mix read and follow all product labels. Mix in the following order:
 - Compatibility agent (if needed)
 - Wettable and soluble powders
 - Flowable liquids
 - Emulsifiable oils and concentrates
 - Super Insecticidal Soap Concentrate

Amount of Super Insecticidal Soap Concentrate and Water to Apply¹

Area to be treated	At % solution	Use amount of	
		Water	Super Insecticidal Soap Concentrate
1 Acre	0.25	100 gallons	1 quart
	0.5	100 gallons	½ gallon
	1.0	100 gallons	1 gallon
	2.0	100 gallons	2 gallons

¹In order to calculate the amount of product (in pints) needed for various amount of gallons, multiply the desired percent to the amount of desired gallons then divide by 12.5 as shown in the equation below:

$$\text{Amount of product to add to solution} = \frac{(\text{desired percent of solution}) \times (\text{the amount of desired gallons})}{12.5}$$

APPLICATION DIRECTIONS

Phytotoxicity (Plant Sensitivity)

- Sensitivity of plants to this product can be influenced by several factors which include: pest and disease pressure, cultivar, plant vigor, environmental conditions (temperature, relative humidity, moisture availability, light intensity, etc.), spray concentration, companion products, 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 7.0.
 - High volume Applications cause the spray to collect on the bottom of fruit such as apple, pear, nectarine, or angel and grape.
 - Tender new foliage is present on narrow leaf evergreen trees and shrubs.
 - When existing insect, mite or disease pressure has already stressed plant foliage or damaged fruit (for example, mite burn on leaves).
- Application of this product may alter the appearance of the glucose bloom on spruces and the waxy bloom on grapes.
- 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 apply to very sensitive plants such as: horse chestnut, Japanese maple, mountain ash, Cherimoya, bleeding heart or sweetpeas.
- 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, red bud, river birch, schefflera, 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,

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rose, salvia, snap dragon, 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.

Use Precautions

Application of spray mixtures must conform to use precautions and directions for all products included in the tank mix.

Agitation

Combinations must be kept agitated and sprayed promptly after mixing.

Application Equipment

Apply Super Insecticidal Soap with all types of hand or power sprayers. Make certain that spray tanks, hoses, nozzles and other sprayer parts are thoroughly clean and uncontaminated with other pesticides before use. Read and follow the instructions for the type of sprayer you use. A defoaming agent may be required in sprayers equipped with an agitator.

Chemigation

Do not apply through any type of irrigation system.

Sulfur

Do not use within 3 days of a sulfur application.

Drift

Do not apply when wind conditions impair thorough coverage.

New Transplants and Unrooted Cuttings

Do not apply to these types of plants.

Timing of Application

- Initiate application as soon as pest is observed, to avoid economic injury. Repeat applications at one-week intervals, to control infesting or increasing pest populations.
- Do not make repeat applications at less than 5 day intervals, or make more than 3 sequential applications at 7 to 14 day intervals unless your experience has shown the use pattern to be non-injurious to the type and the development stage of plant(s) to be treated under local growing conditions.

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.
- 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. In general, adequate coverage requires a minimum of 50 gallons of total spray volume per acre. Higher volumes may be required on larger perennial crops.
- Apply Super Insecticidal Soap Concentrate solutions to wet (minimize run-off) to decrease the potential for injury on foliage, fruit and flowers of sensitive plants.
- Apply promptly after mixing with other pesticides to avoid or reduce alkaline hydrolysis of certain pesticides.

Sites	Pests	Stand Alone Use Rate	Application Restrictions
Vegetables			
Artichoke ^{1,2}	Leaf miner and green peach orchid	0.25 -0.5 pints of product per 25 gallons of water per acre	Apply this product only in tank mix combination with a labeled companion insecticide.
	Other aphids		To achieve enhanced and residual pest control, use 1-2 pints of this product per 25 gallons per acre with a use rate of another labeled product. Consult your local extension specialist certified crop advisor, and/or manufacturer representative for specific product directions.
	Whiteflies		To achieve enhanced and residual pest control, use 1-2 pints of this product per 25 gallons per acre with a use rate of another labeled product. Consult your local extension specialist certified crop advisor, and/or manufacturer representative for specific product directions.
	Thrips, plant bugs, spider mites, russet mites and leafhoppers		See Mixing and Application sections of this label for information on rates mixing and application"
Asparagus ^{1,2}	Leaf miner and green peach orchid	0.25 -0.5 pints of product per 25 gallons of water per acre	Apply this product only in tank mix combination with a labeled companion insecticide.
	Other aphids		To achieve enhanced and residual pest control, use 1-2 pints of this product per 25 gallons per acre with a use rate of another labeled product. Consult your local extension specialist certified crop advisor, and/or manufacturer representative for specific product directions.
	Whiteflies		To achieve enhanced and residual pest control, use 1-2 pints of this product per 25 gallons per acre with a use rate of another labeled product. Consult your local extension specialist certified crop advisor, and/or manufacturer representative for specific product directions.
	Thrips, plant bugs, spider mites, russet mites and leafhoppers		See Mixing and Application sections of this label for information on rates mixing and application.
Brassica(cole) ¹ (such as: bok choy, broccoli broccoli raab, Brussels sprout, cabbage, cauliflower, Chinese broccoli, Chinese cabbage, collard greens, kale, kohlrabi, mustard greens, napa cabbage and Swiss chard)	Leaf miner and green peach orchid	0.25 -0.5 pints of product per 25 gallons of water per acre	Apply this product only in tank mix combination with a labeled companion insecticide.
	Other aphids		To achieve enhanced and residual pest control, use 1-2 pints of this product per 25 gallons per acre with a use rate of another labeled product. Consult your local extension specialist certified crop advisor, and/or manufacturer representative for specific product directions.
	Whiteflies		To achieve enhanced and residual pest control, use 1-2 pints of this product per 25 gallons per acre with a use rate of another labeled product. Consult your local extension specialist certified crop advisor, and/or manufacturer representative for specific product directions.
	Thrips, plant bugs, spider mites, broad mites, russet mites and leafhoppers		See Mixing and Application sections of this label for information on rates, mixing and application.

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Sites	Pests	Stand Alone Use Rate	Application Restrictions
Bulb ¹ (such as: green onion, leeks, garlic and onion)	Leaf miner and green peach orchid	0.25 -0.5 pints of product per 25 gallons of water per acre	Apply this product only in tank mix combination with a labeled companion insecticide.
	Other aphids		To achieve enhanced and residual pest control, use 1-2 pints of this product per 25 gallons per acre with a use rate of another labeled product. Consult your local extension specialist certified crop advisor, and/or manufacturer representative for specific product directions.
	Whiteflies		To achieve enhanced and residual pest control, use 1-2 pints of this product per 25 gallons per acre with a use rate of another labeled product. Consult your local extension specialist certified crop advisor, and/or manufacturer representative for specific product directions.
	Thrips, plant bugs, spider mites, broad mites, russet mites and leafhoppers		See Mixing and Application sections of this label for information on rates, mixing and application.
Curcubits ¹ (such as: cucumber, melon, pumpkin and summer squash)	Leaf miner and green peach orchid	0.25 -0.5 pints of product per 25 gallons of water per acre	Apply this product only in tank mix combination with a labeled companion insecticide.
	Other aphids		To achieve enhanced and residual pest control, use 1-2 pints of this product per 25 gallons per acre with a use rate of another labeled product. Consult your local extension specialist certified crop advisor, and/or manufacturer representative for specific product directions.
	Whiteflies		To achieve enhanced and residual pest control, use 1-2 pints of this product per 25 gallons per acre with a use rate of another labeled product. Consult your local extension specialist certified crop advisor, and/or manufacturer representative for specific product directions.
	Thrips, plant bugs, spider mites, broad mites, russet mites and leafhoppers		See Mixing and Application sections of this label for information on rates, mixing, and application.
	Powdery Mildew		Apply this product when the first signs of powdery mildew appear and repeat at 7 to 10 days intervals, or as needed. Schedule a follow up fungicide application within 7-10 days after each application. For tank mix use, apply this product with a recommended fungicide to achieve protectant/residual control of powdery mildew. For additional instructions, see application guidelines and notes to user: understanding plant sensitivity sections of this label.

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Sites	Pests	Stand Alone Use Rate	Application Restrictions
Fruiting ¹ (such as: egg plant, pepper and tomato)	Leaf miner and green peach orchid	0.25 -0.5 pints of product per 25 gallons of water per acre	Apply this product only in tank mix combination with a labeled companion insecticide.
	Other aphids		To achieve enhanced and residual pest control, use 1-2 pints of this product per 25 gallons per acre with a use rate of another labeled product. Consult your local extension specialist certified crop advisor, and/or manufacturer representative for specific product directions.
	Whiteflies		To achieve enhanced and residual pest control, use 1-2 pints of this product per 25 gallons per acre with a use rate of another labeled product. Consult your local extension specialist certified crop advisor, and/or manufacturer representative for specific product directions.
	Thrips, plant bugs, spider mites, russet mites and leafhoppers		See Mixing and Application sections of this label for information on rates, mixing and application.
	Powdery Mildew		Apply this product when the first signs of powdery mildew appear and repeat at 7 to 10 days intervals, or as needed. Schedule a follow up fungicide application within 7-10 days after each application. For tank mix use, apply this product with a recommended fungicide to achieve protectant/residual control of powdery mildew. For additional instructions, see application guidelines and notes to user: understanding plant sensitivity sections of this label.
Leafy ¹ (such as: celery, endive, escarole, lettuce and spinach)	Leaf miner and green peach orchid	0.25 -0.5 pints of product per 25 gallons of water per acre	Apply this product only in tank mix combination with a labeled companion insecticide.
	Other aphids		To achieve enhanced and residual pest control, use 1-2 pints of this product per 25 gallons per acre with a use rate of another labeled product. Consult your local extension specialist certified crop advisor, and/or manufacturer representative for specific product directions.
	Whiteflies		To achieve enhanced and residual pest control, use 1-2 pints of this product per 25 gallons per acre with a use rate of another labeled product. Consult your local extension specialist certified crop advisor, and/or manufacturer representative for specific product directions.
	Thrips, plant bugs, spider mites, broad mites, russet mites and leafhoppers		See Mixing and Application sections of this label for information on rates, mixing and application.
	Powdery Mildew		Apply this product when the first signs of powdery mildew appear and repeat at 7 to 10 days intervals, or as needed. Schedule a follow up fungicide application within 7-10 days after each application. For tank mix use, apply this product with a recommended fungicide to achieve protectant/residual control of powdery mildew. For additional instructions, see application guidelines and notes to user: understanding plant sensitivity sections of this label.

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Sites	Pests	Stand Alone Use Rate	Application Restrictions
Legume ¹ (such as: bean, pea and soy bean)	Leaf miner and green peach orchid	0.25 -0.5 pints of product per 25 gallons of water per acre	Apply this product only in tank mix combination with a labeled companion insecticide.
	Other aphids		To achieve enhanced and residual pest control, use 1-2 pints of this product per 25 gallons per acre with a use rate of another labeled product. Consult your local extension specialist certified crop advisor, and/or manufacturer representative for specific product directions.
	Whiteflies		To achieve enhanced and residual pest control, use 1-2 pints of this product per 25 gallons per acre with a use rate of another labeled product. Consult your local extension specialist certified crop advisor, and/or manufacturer representative for specific product directions.
	Thrips, plant bugs, spider mites, broad mites, russet mites and leafhoppers		See Mixing and Application sections of this label for information on rates, mixing and application.
	Powdery Mildew		Apply this product when the first signs of powdery mildew appear and repeat at 7 to 10 days intervals, or as needed. Schedule a follow up fungicide application within 7-10 days after each application. For tank mix use, apply this product with a recommended fungicide to achieve protectant/residual control of powdery mildew. For additional instructions, see application guidelines and notes to user: understanding plant sensitivity sections of this label.
Root and Tuber ¹ (such as: beet, carrot, horseradish, potato, radish, rutabaga, shallot, sugar beet, and yam)	Leaf miner and green peach orchid	0.25 -0.5 pints of product per 25 gallons of water per acre	Apply this product only in tank mix combination with a labeled companion insecticide.
	Other aphids		To achieve enhanced and residual pest control, use 1-2 pints of this product per 25 gallons per acre with a use rate of another labeled product. Consult your local extension specialist certified crop advisor, and/or manufacturer representative for specific product directions.
	Whiteflies		To achieve enhanced and residual pest control, use 1-2 pints of this product per 25 gallons per acre with a use rate of another labeled product. Consult your local extension specialist certified crop advisor, and/or manufacturer representative for specific product directions.
	Thrips, plant bugs, spider mites, broad mites, russet mites and leafhoppers		See Mixing and Application sections of this label for information on rates, mixing and application.
	Powdery Mildew		Apply this product when the first signs of powdery mildew appear and repeat at 7 to 10 days intervals, or as needed. Schedule a follow up fungicide application within 7-10 days after each application. For tank mix use, apply this product with a recommended fungicide to achieve protectant/residual control of powdery mildew. For additional instructions, see application guidelines and notes to user: understanding plant sensitivity sections of this label.

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Sites	Pests	Stand Alone Use Rate	Application Restrictions
Herbs and spices ¹ (such as: basil, chive, dill, marjoram, parsley and sage)	Leaf miner and green peach orchid	0.25 -0.5 pints of product per 25 gallons of water per acre	Apply this product only in tank mix combination with a labeled companion insecticide.
	Other aphids		To achieve enhanced and residual pest control, use 1-2 pints of this product per 25 gallons per acre with a use rate of another labeled product. Consult your local extension specialist certified crop advisor, and/or manufacturer representative for specific product directions.
	Whiteflies		To achieve enhanced and residual pest control, use 1-2 pints of this product per 25 gallons per acre with a use rate of another labeled product. Consult your local extension specialist certified crop advisor, and/or manufacturer representative for specific product directions.
	Thrips, plant bugs, spider mites, broad mites, russet mites and leafhoppers		See Mixing and Application sections of this label for information on rates, mixing and application.
	Powdery Mildew		Apply this product when the first signs of powdery mildew appear and repeat at 7 to 10 days intervals, or as needed. Schedule a follow up fungicide application within 7-10 days after each application. For tank mix use, apply this product with a recommended fungicide to achieve protectant/residual control of powdery mildew. For additional instructions, see application guidelines and notes to user: understanding plant sensitivity sections of this label.
Watercress ^{1,2}	Leaf miner and green peach orchid	0.25 -0.5 pints of product per 25 gallons of water per acre	Apply this product only in tank mix combination with a labeled companion insecticide.
	Other aphids		To achieve enhanced and residual pest control, use 1-2 pints of this product per 25 gallons per acre with a use rate of another labeled product. Consult your local extension specialist certified crop advisor, and/or manufacturer representative for specific product directions.
	Whiteflies		To achieve enhanced and residual pest control, use 1-2 pints of this product per 25 gallons per acre with a use rate of another labeled product. Consult your local extension specialist certified crop advisor, and/or manufacturer representative for specific product directions.
	Thrips, plant bugs, spider mites, broad mites, russet mites and leafhoppers		See Mixing and Application sections of this label for information on rates, mixing and application.

¹ Row crops require 50-150 gallons of spray per acre

² Not for use in California

FRUIT, NUT and VINE CROPS

Apply to wet (minimize runoff) with an air blast or other appropriate sprayer. 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.

Sites	Pests	Use Rate	Application Restrictions
Citrus fruits ¹	Citrus rust mite	0.25 - 1 pints per 25 gallons of water per acre	Apply 1 pint per 25 gallons of water per acre. Use of a suitable citrus spray oil in combination with this product applied to wet (minimize run-off) with an air blast or other appropriate sprayer may help improve performance.
	European red mite, Pacific mites, two spotted mites, Willamette mite		Apply 1 pint per 25 gallons of water per acre solution of this product to control motile stages. To achieve enhanced and residual control use 0.5 pints per 25 gallons of water per acre solutions of this product in combination with recommended products such as Vendex or Kelthane.
	Green apple aphid		To achieve enhanced and residual control, use 1 pint per 25 gallons of water per acre solution of this product in combination with recommended products such as Thiodan.
	Western grape aphid and variegated leafhoppers		To achieve enhanced and residual control, use 1 pint per 25 gallons of water per acre in combination with recommended products such as Pyrellin or Pyrenone. Scout and make first application to control nymphs during the first generation (first brood) when the majority of nymphs are in the third to fourth instars. This product is effective for late season and pre-harvest suppression of leafhoppers in wine and raisin grapes.
	Pear psylla		Apply 1 pint per 25 gallons of water per acre solution of this product 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 1 st and 2 nd generation nymphs before they mature into fourth instars.
	Rosy apple aphid		Apply 0.5 pints per 25 gallons of water per acre solution of this product. Addition of appropriate spray oil to this product may help improve performance. Time sprays to coincide with pre-pink or pink stages of apples.
	White apple leaf hopper		To achieve enhanced and residual control, use 1 pint per 25 gallons of water per acre solution of this product in combination with recommended products such as Thiodan. Target 1 st generation nymphs before they mature into flyers.
	Other aphids, campyloma mealy-bugs, rust mites, pear slug (saw fly larvae), scale crawlers, leafhoppers and whiteflies		See Mixing and Application sections of this label for information on rates, mixing and application

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Sites	Pests	Use Rate	Application Restrictions
Citrus fruits ¹ (continued)	Powdery mildew		Apply to control powdery mildew spores and hyphae. Apply this product when first signs of powdery mildew appear or as appropriate based on local powdery mildew control recommendations. Repeat at 7 to 14 day intervals, or as needed. Schedule a follow-up fungicide application within 7 to 14 days after each application when Super Insecticidal Soap Concentrate is used alone. Tank Mix Rate: Apply with a recommended fungicide to achieve protectant/ residual control of powdery mildew. Do not mix with sulfur. Do not use within 3 days of a sulfur application.
Pome fruits ¹ (such as apple, crab apple, pear and quince)	European red mite, Pacific mites, two spotted mites, Willamette mite	0.25 - 1 pints per 25 gallons of water per acre	Apply 1 pint per 25 gallons per acre solution of this product to control motile stages. To achieve enhanced and residual control use 0.5 pints per 25 gallons of water per acre solutions of this product in combination with recommended products such as Vendex or Kelthane.
	Green apple aphid		To achieve enhanced and residual control, use 1 pint per 25 gallons of water per acres solution of this product in combination with recommended products such as Thiodan.
	Western grape aphid and variegated leafhoppers		To achieve enhanced and residual control, use 1 pint per 25 gallons of water per acre solution of this product in combination with recommended products such as Pyrellin or Pyrenone. Scout and make first Application to control nymphs during the first generation (first brood) when the majority of nymphs are in the third to fourth instars. This product is effective for late season and preharvest suppression of leafhoppers in wine and raisin grapes.
	Pear psylla		Apply 1 pint per 25 gallons of water per acre solution of this product 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 1 st and 2 nd generation nymphs before they mature into fourth instars.
	Rosy apple aphid		Apply 0.5 pints per 25 gallons of water per acre solution of this product. Addition of appropriate spray oil to this product may help improve performance. Time sprays to coincide with pre-pink or pink stages of apples.
	White apple leaf hopper		To achieve enhanced and residual control, use 1 pint per 25 gallons of water per acre solution of this product in combination with recommended products. Target 1 st generation nymphs before they mature into flyers.
	Other aphids, campyloma, mealy-bugs, rust mites, pear slug(saw fly larvae), scale crawlers, leafhoppers and white flies		See Mixing and Application sections of this label for information on rates, mixing and application.
	Powdery mildew		Apply to control powdery mildew spores and hyphae. Apply this product when first signs of powdery mildew appear or as appropriate based on local powdery mildew control recommendations. Repeat at 7 to 14 day intervals, or as needed. Schedule a follow-up fungicide application within 7 to 14 days after each application when Super Insecticidal Soap Concentrate is used alone. Tank Mix Rate: Apply with a recommended fungicide to achieve protectant/ residual control of powdery mildew. Do not mix with sulfur. Do not use

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			within 3 days of a sulfur application.
Stone fruits ²	European red mite, Pacific mites, two spotted mites, Willamette mite	0.25 - 1 pints per 25 gallons of water per acre	Do not apply Super Insecticidal Soap to sweet cherries between fruit formation and harvest. Apply 1 pint per 25 gallons of water per acre solution of this product to control motile stages. To achieve enhanced and residual control use 0.5 pints per 25 gallons of water per acre solutions of this product in combination with recommended products such as Vendex or Kelthane.
	Green apple aphid		To achieve enhanced and residual control, use 1 pint per 25 gallons of water per acres solution of this product in combination with recommended products such as Thiodan.
	Western grape aphid and variegated leafhoppers		To achieve enhanced and residual control, use 1 pint per 25 gallons of water per acre solution of this product in combination with recommended products such as Pyrellin or Pyrenone. Scout and make first Application to control nymphs during the first generation (first brood) when the majority of nymphs are in the third to fourth instars. This product is effective for late season and preharvest suppression of leafhoppers in wine and raisin grapes.
	Pear psylla		Apply 1 pint per 25 gallons of water per acre solution of this product 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 1 st and 2 nd generation nymphs before they mature into fourth instars.
	Rosy apple aphid		Apply 0.5 pints per 25 gallons of water per acre solution of this product. Addition of appropriate spray oil to this product may help improve performance. Time sprays to coincide with pre-pink or pink stages of apples.
	White apple leaf hopper		To achieve enhanced and residual control, use 1 pint per 25 gallons of water per acre solution of this product in combination with recommended products such as Thiodan. Target 1 st generation nymphs before they mature into flyers.
	Other aphids, campyloma, mealy-bugs, rust mites, pear slug(saw fly larvae), scale crawlers, leafhoppers and white flies		See Mixing and Application sections of this label for information on rates, mixing and application.
	Powdery mildew		Apply to control powdery mildew spores and hyphae. Apply this product when first signs of powdery mildew appear or as appropriate based on local powdery mildew control recommendations. Repeat at 7 to 14 day intervals, or as needed. Schedule a follow-up fungicide application within 7 to 14 days after each application when Super Insecticidal Soap Concentrate is used alone. Tank Mix Rate: Apply with a recommended fungicide to achieve protectant/ residual control of powdery mildew. Do not mix with sulfur. Do not use within 3 days of a sulfur application.

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Sites	Pests	Use Rate	Application Restrictions
Small fruits and berries ^{2,3} (such as: black berry, blue berry, cane berries, cranberry, currants, grape, raspberry, strawberry, boysenberry, and olallieberry)	European red mite, Pacific mites, two spotted mites, Willamette mite	0.25 - 1 pints per 25 gallons of water per acre	Apply 1 pint per 25 gallons of water per acre solution of this product to control motile stages. To achieve enhanced and residual control use 0.5 pints per 25 gallons of water per acre solutions of this product in combination with recommended products such as Vendex or Kelthane.
	Green apple aphid		To achieve enhanced and residual control, use 1 pint per 25 gallons of water per acres solution of this product in combination with recommended products such as Thiodan.
	Western grape aphid and variegated leafhoppers		To achieve enhanced and residual control, use 1 pint per 25 gallons of water per acre solution of this product in combination with recommended products such as Pyrellin or Pyrenone. Scout and make first Application to control nymphs during the first generation (first brood) when the majority of nymphs are in the third to fourth instars. This product is effective for late season and preharvest suppression of leafhoppers in wine and raisin grapes.
	Pear psylla		Apply 1 pint per 25 gallons of water per acre solution of this product 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 1 st and 2 nd generation nymphs before they mature into fourth instars.
	Rosy apple aphid		Apply 0.5 pints per 25 gallons of water per acre solution of this product. Addition of appropriate spray oil to this product may help improve performance. Time sprays to coincide with pre-pink or pink stages of apples.
	White apple leaf hopper		To achieve enhanced and residual control, use 1 pint per 2 gallons of water per acre solution of this product in combination with recommended products such as Thiodan. Target 1 st generation nymphs before they mature into flyers.
	Other aphids, campylopa, mealy-bugs, rust mites, pear slug (saw fly larvae), scale crawlers, leafhoppers and white flies		See Mixing and Application sections of this label for information on rates, mixing and application.
	Powdery mildew		Grapes: apply 0.25 - 0.5 pints per gallons per acre solution of this product to control powdery mildew spores and hyphae. Initiate sprays at bud break or as appropriate based on local powdery mildew control recommendations. Repeat at 7 to 10 days after each application when Super Insecticidal Soap Concentrate is used alone. Use this product in a scheduled preventive spray program with other labeled fungicides. Do not mix with sulfur. Do not use within 3 days of sulfur application. This product may be applied in tank mixes with other labeled fungicides. Consult your local extension specialist, certified crop advisor, and/or manufacturer representative for specific product recommendations. Tank mix this product at the rate of 0.25-0.5 pints per 25 gallons per acre with labeled rates of companion pesticides. Complete coverage of grape clusters as well as leaf surfaces is essential for effective control. For additional instructions on use with sulfur, see Application Guidelines and Notes to User: Understanding Plant Sensitivity sections of this label.

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Sites	Pests	Use Rate	Application Restrictions
Tree Nuts	European red mite	0.25-1 pints per 25 gallons of water per acre	Apply 1 pint per 25 gallons per acre solution of this product to control motile stages. To achieve enhanced and residual control use 0.5 pints per 25 gallons per acre solutions of this product in combination with recommended products such as Vendex or Kelthane.
	Green apple aphid		To achieve enhanced and residual control, use 1 pint per 25 gallons per acres solution of this product in combination with recommended products such as Thiodan.
	Western grape aphid and variegated leafhoppers		To achieve enhanced and residual control, use 1 pint per 25 gallons per acre solution of this product in combination with recommended products such as Pyrellin or Pyrenone. Scout and make first Application to control nymphs during the first generation (first brood) when he majority of nymphs are in the third to fourth instars. This product is effective for late season and preharvest suppression of leafhoppers in wine and raisin grapes.
	Pear psylla		Apply 1 pint per 25 gallons per acre solution of this product 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 1 st and 2 nd generation nymphs before they mature into fourth instars.
	Rosy apple aphid		Apply 0.5 pints per 25 gallons per acre solution of this product. Addition of an appropriate spray oil to this product may help improve performance. Time sprays to coincide with pre-pink or pink stages of apples.
	White apple leaf hopper		To achieve enhanced and residual control, use 1 pint per 2 gallons per acre solution of this product in combination with recommended products such as Thiodan. Target 1 st generation nymphs before they mature into flyers.
	Other aphids, campyloma, mealy-bugs, rust mites, pear slug(saw fly larvae), scale crawlers, leafhoppers and white flies		See Mixing and Application sections of this label for information on rates, mixing and application.
	Powdery mildew		Apply to control powdery mildew spores and hyphae. Apply his produc when first signs of powdery mildew appear or as appropriate based on local powdery mildew control recommendations. Repeat at 7 to 14 day intervals, or as needed. Schedule a follow-up fungicide application within 7 to 14 days after each application when Super Insecticidal Soap Concentrate is used alone. Tank Mix Rate: Apply with a recommended fungicide to achieve protectant/residual control of powdery mildew. Do not mix with sulfur. Do not use within 3 days of a sulfur application.

¹ Citrus (Precaution): Fruit marking may occur when sooty mold is present.

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²Stone Fruits 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. Do not make dilute spray application on smooth skinned fruit after fruit formation. This product is not recommended for use on yellow skinned nectarine varieties. Do not apply Super Insecticidal Soap Concentrate to sweet cherries between fruit formation and harvest.

³Grapes: 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 this product to Calmeria or Italia varieties of grapes.

⁴Pears: Applications of this product should not be used after the delayed dormant stage on fresh market ear varieties including d'Anjou and Asian pears. Applications after fruit set may cause marking which can reduce market value of fruit.

FIELD CROPS

Sites	Pests	Stand Alone Use Rate	Application Restrictions
Alfalfa ¹	Aphids, caterpillars (in tank mix combination only, exposed thrips, green bug, flea hopper, plant bug (such as lygus and stink bugs), spider mite and whitefly)	1 pint per 25 gallons of water per acre	<p>Refer to the Mixing and Application section of this label for general rate, timing and application information except as noted below.</p> <p>Tank Mix Rate:</p> <ul style="list-style-type: none"> • To achieve enhanced and residual control of caterpillars, use this product in combination with other labeled insecticides. • To achieve enhanced and residual control of other sects (aphids, thrips, green bug, flea hopper, plant bug, spider mite, whitefly), use this product in combination with other labeled insecticides. • In situations where thorough coverage of pests is not possible or practical, it is recommended that this product be tank mixed with one of the companion pesticides listed above. • This product may be used in tank mixes with penetrator type adjuvant for application to cotton peanuts and tobacco only if prior use under local use conditions has demonstrated plant safety.
Canola ¹	Aphids, caterpillars (in tank mix combination only, exposed thrips, green bug, flea hopper, plant bug (such as lygus and stink bugs), spider mite and whitefly)	1 pint per 25 gallons of water per acre	<p>Refer to the Mixing and Application section of this label for general rate, timing and application information except as noted below.</p> <p>Tank Mix Rate:</p> <ul style="list-style-type: none"> • To achieve enhanced and residual control of caterpillars, use this product in combination with other labeled insecticides. • To achieve enhanced and residual control of other sects (aphids, thrips, green bug, flea hopper, plant bug, spider mite, whitefly), use this product in combination with other labeled insecticides. • In situations where thorough coverage of pests is not possible or practical, it is recommended that this product be tank mixed with one of the companion pesticides listed above. • This product may be used in tank mixes with penetrator type adjuvant for application to cotton peanuts and tobacco only if prior use under local use conditions has demonstrated plant safety.
Cotton	Aphids, caterpillars (in tank mix combination only, exposed thrips, green bug, flea hopper, plant bug (such as lygus and stink bugs), spider mite and whitefly)	1 pint per 25 gallons of water per acre	<p>Refer to the Mixing and Application section of this label for general rate, timing and application information except as noted below.</p> <p>Tank Mix Rate:</p> <ul style="list-style-type: none"> • To achieve enhanced and residual control of caterpillars, use this product in combination with other labeled insecticides. • To achieve enhanced and residual control of other sects (aphids, thrips, green bug, flea hopper, plant bug, spider mite, whitefly), use this product in combination with other labeled insecticides.

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Sites	Pests	Stand Alone Use Rate	Application Restrictions
			<ul style="list-style-type: none"> In situations where thorough coverage of pests is not possible or practical, it is recommended that this product be tank mixed with one of the companion pesticides listed above. This product may be used in tank mixes with penetrator type adjuvant for application to cotton peanuts and tobacco only if prior use under local use conditions has demonstrated plant safety.
Peanut ¹	Aphids, caterpillars (in tank mix combination only, exposed thrips, green bug, flea hopper, plant bug (such as lygus and stink bugs), spider mite and whitefly	1 pint per 25 gallons of water per acre	<p>Refer to the Mixing and Application section of this label for general rate, timing and application information except as noted below.</p> <p>Tank Mix Rate:</p> <ul style="list-style-type: none"> To achieve enhanced and residual control of caterpillars, use this product in combination with other labeled insecticides. To achieve enhanced and residual control of other sects (aphids, thrips, green bug, flea hopper, plant bug, spider mite, whitefly), use this product in combination with other labeled insecticides. In situations where thorough coverage of pests is not possible or practical, it is recommended that this product be tank mixed with one of the companion pesticides listed above. This product may be used in tank mixes with penetrator type adjuvant for application to cotton peanuts and tobacco only if prior use under local use conditions has demonstrated plant safety.
Tobacco ¹	Aphids, caterpillars (in tank mix combination only, exposed thrips, green bug, flea hopper, plant bug (such as lygus and stink bugs), spider mite and whitefly	1 pint per 25 gallons of water per acre	<p>Refer to the Mixing and Application section of this label for general rate, timing and application information except as noted below.</p> <p>Tank Mix Rate:</p> <ul style="list-style-type: none"> To achieve enhanced and residual control of caterpillars, use this product in combination with other labeled insecticides. To achieve enhanced and residual control of other sects (aphids, thrips, green bug, flea hopper, plant bug, spider mite, whitefly), use this product in combination with other labeled insecticides. In situations where thorough coverage of pests is not possible or practical, it is recommended that this product be tank mixed with one of the companion pesticides listed above. This product may be used in tank mixes with penetrator type adjuvant for application to cotton peanuts and tobacco only if prior use under local use conditions has demonstrated plant safety.
Wheat ¹	Aphids, caterpillars (in tank mix combination only, exposed thrips, green bug, flea hopper, plant bug (such as lygus and stink bugs), spider mite and whitefly	1 pint per 25 gallons of water per acre	<p>Refer to the Mixing and Application section of this label for general rate, timing and application information except as noted below.</p> <p>Tank Mix Rate:</p> <ul style="list-style-type: none"> To achieve enhanced and residual control of caterpillars, use this product in combination with other labeled insecticides. To achieve enhanced and residual control of other sects (aphids, thrips, green bug, flea hopper, plant bug, spider mite, whitefly), use this product in combination with other labeled insecticides.

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Sites	Pests	Stand Alone Use Rate	Application Restrictions
			<ul style="list-style-type: none"> In situations where thorough coverage of pests is not possible or practical, it is recommended that this product be tank mixed with one of the companion pesticides listed above. This product may be used in tank mixes with penetrator type adjuvant for application to cotton peanuts and tobacco only if prior use under local use conditions has demonstrated plant safety.
Hops ¹	Aphids, caterpillars (in tank mix combination only, exposed thrips, green bug, flea hopper, plant bug (such as lygus and stink bugs), spider mite and whitefly	1 pint per 25 gallons of water per acre	Refer to the Mixing and Application section of this label for general rate, timing and application information except as noted below. Tank Mix Rate: <ul style="list-style-type: none"> To achieve enhanced and residual pest control, use this product in combination with recommended companion product. Use 1 – 2 pints per 25 gallons of water per acre with most companion pesticides targeted at the same pest(s) as Super Insecticidal Soap Concentrate. A lower rate of 0.25 – 1.0 pints per 25 gallons of water per acre 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.
Coffee ¹	Aphids, caterpillars (in tank mix combination only, exposed thrips, green bug, flea hopper, plant bug (such as lygus and stink bugs), spider mite and whitefly	1 pint per 25 gallons of water per acre	Refer to the Mixing and Application section of this label for general rate, timing and application information except as noted below. Tank Mix Rate: <ul style="list-style-type: none"> To achieve enhanced and residual pest control, use this product in combination with recommended companion product. Use 1 – 2 pints per 25 gallons of water per acre with most companion pesticides targeted at the same pest(s) as Super Insecticidal Soap Concentrate. A lower rate of 0.25 – 1.0 pints per 25 gallons of water per acre 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.
Banana ¹	Aphids, caterpillars (in tank mix combination only, exposed thrips, green bug, flea hopper, plant bug (such as lygus and stink bugs), spider mite and whitefly	1 pint per 25 gallons of water per acre	Refer to the Mixing and Application section of this label for general rate, timing and application information except as noted below. Tank Mix Rate: <ul style="list-style-type: none"> To achieve enhanced and residual pest control, use this product in combination with recommended companion product. Use 1 – 2 pints per 25 gallons of water per acre with most companion pesticides targeted at the same pest(s) as Super Insecticidal Soap Concentrate. A lower rate of 0.25 – 1.0 pints per 25 gallons of water per acre 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.
Pineapple ¹	Aphids, caterpillars (in	1 pint per 25	Refer to the Mixing and Application section of this label for general rate, timing and application information except

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Sites	Pests	Stand Alone Use Rate	Application Restrictions
	tank mix combination only, exposed thrips, green bug, flea hopper, plant bug (such as lygus and stink bugs), spider mite and whitefly	gallons of water per acre	as noted below. Tank Mix Rate: <ul style="list-style-type: none"> To achieve enhanced and residual pest control, use this product in combination with recommended companion product. Use 1 – 2 pints per 25 gallons of water per acre with most companion pesticides targeted at the same pest(s) as Super Insecticidal Soap Concentrate. A lower rate of 0.25 – 1.0 pints per 25 gallons of water per acre 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.

Not for use in California

TURF

Sites	Pests	Stand Alone Use Rate	Application Restrictions
Turf	Chinch bug, cutworm, flea, greenbug, grub, mites, mole cricket and web worm	1 - 2 pints per 25 gallons of water per acre	Refer to Mixing and Application section of his label for general rate, timing and application information, except as noted below. Tank Mix Rate: To achieve enhanced and residual pest control, use this product in combination with recommended products such as Pageant, Durban, Malation, Diazinon or Orthene. For use on mole crickets, irrigate turf prior to application of this product to bring mole crickets to the surface.
	Powdery mildew	1.6 - 2 pints per 25 gallons of water per acre	Apply this product when the powdery mildew is first observed and repeat every 7-10 days or as needed. Tank Mix Rate: This product can also be tank mixed with other fungicide products suitable for turf powdery mildew use. Tank mixes with products containing chlorothalonil should be avoided as they can cause severe phytotoxicity.

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ORNAMENTAL

Sites	Pests	Stand Alone Use Rate	Application Restrictions
Ornamental Landscapes Trees, and Shrubs, Christmas Trees, Flowers, Bedding and Indoor plants	Adelgid, psyllid, scale on trees and shrubs	0.25 - 1.0 pints per 25 gallons of water per acre	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.
	Coolley Spruce gall adelgid		Apply to spruce in fall or spring when females begin egg laying.
	"Woolly Aphids"		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.
	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 preventative control measure.
	Conifer and pine needle scale		When insect first appears, apply 1 pint per 25 gallons per acre to thoroughly wet crawlers.
	Tent caterpillar		Apply 1 pint per 25 gallons of water per acre. Spray directly on young larvae when congregated on outside of tent or dismantle tents and spray to thoroughly wet larvae.
	Spider mite		Wet under side 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 a 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.
Whiteflies	Scout plants regularly and apply 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 poinsettia bracts. To achieve enhanced and residual pest control, use 0.25 - 0.5 pints in 25 gallons of water per acre in combination with recommended products such as: Avid, Dursban, Mavrik, Aquaflow, Pounce, Talstar, or Tempo. Lower rates may be used for knockdown/suppression of adult whiteflies.		
Ornamental	Gypsy moth	0.25 - 1.0 pints	To suppress gypsy moth populations, apply directly to the larvae.

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Sites	Pests	Stand Alone Use Rate	Application Restrictions
Landscapes Trees, and Shrubs, Christmas Trees, Flowers, Bedding and Indoor plants (continued)	Blossom thrips on African violets	per 25 gallons of water per acre	Spray to contact thrips on blooms.
	Euonymous scale		Thoroughly wet crawlers.
	Spruce spider mite on conifers		Apply to thoroughly wet infested needles. Repeat applications after 7 days if needed.
	Powdery mildew on Greenhouse grown roses		Apply to control powdery mildew spores and hyphae. Initiate sprays when first signs of powdery mildew appear and repeat at 7 to 10 day intervals, or as needed. Alternate applications of this product with other recommended fungicides to avoid making more than three successive applications of this product at intervals of 7 days or less. Roses may be treated with sublimated sulfur using sulfur-heating pots or similar devices before or after treatment with Super Insecticidal Soap Concentrate. To minimize the potential for plant injury, allow 24 hours to elapse between Super Insecticidal Soap Concentrate and sublimated applications. Mixing other forms of sulfur application may also increase the potential for plant injury, especially, during hot weather (>90°F).

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TERMS AND CONDITIONS OF USE

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