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GARDENS ALIVE! OFFERS THIS PRODUCT FOR SALE AT ALL TIMES SUBJECT TO THE FOREGOING

**Surround® At Home® Crop Protectant**

Surround At Home Crop Protectant forms a Barrier Film, which acts as a Broad Spectrum Crop Protectant for Home, Landscape, and Garden. Use for controlling damage from various Insect, Mite, and Disease Pests, Growth Enhancer, and Protectant against Sunburn and Heat Stress.

For External Household Use Only

Do not spray where a visible white film is undesirable or cannot be washed off such as porous wood, masonry, asphalt, and other valuable goods.

**NOT A PLANT FOOD INGREDIENT**

<b>ACTIVE INGREDIENT:</b>	
Kaolin.....	95.0%
Other INGREDIENTS.....	5.0%
<b>Total:</b>	<b>100.0%</b>

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

EPA Reg. No. 70060-14-56872 EPA Est. No. 56872-IN-001

Growth enhancer uses are not registered in California.

The use of Surround® at Home® in crop protection applications is covered by U.S. Patents: 6,027,740; 6,069,112; 6,110,869; and 6,156,327.

Manufactured for:  
Gardens Alive!, Inc.  
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Lawrenceburg, IN 47025  
513-354-1483  
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Surround and At Home is a registered trademark of Engelhard Corporation

**SURROUND® AT HOME® Crop Protectant**

#### FIRST AID

<b>If in eyes</b>	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
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#### HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may contact 1-800-424-9300 for emergency medical treatment information 24 hours a day 7 days a week.

#### PRECAUTIONARY STATEMENTS

##### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Remove contaminated clothing and wash clothing before reuse.

##### ENVIRONMENTAL HAZARDS

Do not apply directly to water. Do not contaminate water when disposing of equipment wash water or rinsate.

#### DIRECTIONS FOR USE

*It is a violation of federal law to use this product in a manner inconsistent with its labeling.*

#### GENERAL INFORMATION

Surround *At Home* protectant forms a mineral-based particle film intended for protection of crops, and plants in greenhouses, home landscapes and gardens. When Surround *At Home* is applied to plants, a dry white film results. Many pests are listed as suppressed, which means that full control may not be achieved, and supplemental methods will be needed to enhance the level of control. **Thorough, uniform, and consistent coverage is essential throughout the infestation or stress period.**

For crops that will not be washed where a residual white film is not desired, make applications early-season only. White residue at harvest can be minimized if applications to smooth skin crops like apples stop when the fruit is approximately 1/4 of its expected size.

#### CONDITIONS OF SALE, WARRANTY STATEMENT, DISCLAIMER

THE MANUFACTURER WARRANTS THAT THIS PRODUCT CONFORMS TO THE CHEMICAL DESCRIPTION ON THE LABEL AND THAT, SUBJECT TO THE INHERENT RISKS DISCUSSED BELOW, THIS PRODUCT IS REASONABLY FIT FOR THE PURPOSES SET FORTH IN THIS LABEL WHEN USED UNDER THE NORMAL CONDITIONS AND STRICTLY IN ACCORDANCE WITH THE DIRECTIONS, WARNINGS, AND OTHER STATEMENTS ON THIS LABEL. IT IS IMPOSSIBLE TO ELIMINATE ALL RISKS INHERENTLY ASSOCIATED WITH THE USE OF THIS PRODUCT. CROP INJURY, INEFFECTIVENESS, OR OTHER UNINTENDED CONSEQUENCES MAY RESULT BECAUSE OF SUCH FACTORS AS WEATHER CONDITIONS, PRESENCE OF OTHER MATERIALS, OR THE MANNER OF USE OR APPLICATION, ALL OF WHICH ARE BEYOND THE CONTROL OF THE MANUFACTURER. TO THE FULLEST EXTENT PERMITTED BY LAW ALL SUCH RISKS ARE ASSUMED BY BUYER/USER. THE DIRECTIONS, WARNINGS AND OTHER STATEMENTS ON THIS LABEL ARE BASED UPON REASONABLE EXPERTS' EVALUATIONS OF REASONABLE TESTS OF EFFECTIVENESS, AND UPON REPORTS OF FIELD EXPERIENCE. TESTS HAVE NOT BEEN MADE UNDER ALL CONDITIONS.

THE MANUFACTURER NEITHER INTENDS, NOR DOES IT AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, AND IT EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

TO THE FULLEST EXTENT PERMITTED BY LAW THIS WARRANTY DOES NOT EXTEND TO, AND THE BUYER SHALL BE SOLELY RESPONSIBLE FOR, ANY AND ALL LOSSES OR DAMAGE WHICH MAY RESULT FROM THE USE OF THIS PRODUCT IN ANY MANNER WHICH IS INCONSISTENT WITH THE LABEL, DIRECTIONS, WARNINGS OR CAUTIONS.

**Non-food Crops**

**Ornamental Plants**

Such as landscape plants, flowers and garden transplants	Ornamental Plants
PEST	APPLICATION INSTRUCTIONS
Aphids, black vine weevil, crickets, cut-worms, diabrotica beetle, earwig, grasshoppers, leafhoppers including sharpshooters, Japanese beetle, thrips, whitefly	Suppression only*. Start prior to infestation. Spray every 5 - 7 days throughout infestation.
Deer, rabbit	Suppression only*. Start prior to animal feeding and maintain coverage during feeding periods. For plants on which Surround <i>At Home</i> does not adhere well, re-spray as soon as possible following rainfall or protection will be lost.
Sunburn and heat stress	See General Information/Growth Enhancer, Sunburn and Heat Stress Protectant/Sunburn Reduction
* Supplemental controls may be needed for complete control.	

**Special Directions**

Flower and ornamental plants will obtain a white covering from applications of Surround *At Home*. If this is undesirable do not spray. On cut-flower plants, it is best to spray only the leafy foliage of the plant, so that cuttings are not affected.

**STORAGE AND DISPOSAL**

<p>Do not contaminate water, food or feed by storage and disposal.</p> <p><b>PESTICIDE STORAGE:</b> Store in a dry, sheltered location and away from food or feed. Store the container in the upright position. Product is slippery when wet.</p> <p><b>PESTICIDE DISPOSAL: If partly filled:</b> Call you local solid waste agency or 1-800-CLEANUP (or equivalent organization) for disposal instructions. Unless otherwise instructed, discard in trash. Never pour unused product down any indoor or outdoor drain.</p> <p><b>CONTAINER DISPOSAL: If empty:</b> Do not reuse the container. Place in trash or offer for recycling if available.</p>
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**Plant Response Precautions:** Surround *At Home* keeps plant surfaces cooler and an advance or delay in maturity can result. Pome and stone fruit can have maturity delays of 3 to 7 days, especially in cool regions.

**MIX INSTRUCTIONS**

**For Non-agitating Sprayer Tanks, Such as Handheld or Backpack Sprayers**

The following mixing sequence must be followed:

1. Use Surround *At Home* powder at a rate of 1/4 to 1/2 lb. of Surround *At Home* powder per one gallon of water. One-half pound is approximately 3 cups. For sprayers difficult to shake, premix in a 5 gallon bucket, stir, and pour suspension into sprayer.
  2. While stirring or swirling, slowly add Surround *At Home* powder into 1/4 to 1/2 of the water that will be used in the batch.
  3. Mix thoroughly by shaking the closed container vigorously for 30 seconds.
  4. Add tank mix pesticides, if any. See compatibility section below before adding any tank mix pesticides.
  5. Add the remainder of the batch water and shake for an additional 30 seconds.
  6. Shake the sprayer occasionally during application.
  7. At the end of the application, spray until empty and flush system and nozzles or, blow air pressure out of the line and nozzle then store in a cool place. Apply the leftover mix within two weeks to avoid spoilage. Rinse the sprayer before next batch.
- Compatibility:**
- Surround *At Home* is not generally affected by most other insecticides, miticides, and fungicides. However, to ensure compatibility test tank mixes before use. When mixing with other products, make up a small batch and observe slurry and film characteristics. Curdling, precipitation, lack of film formation, or changes in viscosity are signs of incompatibility. **Add tank mix pesticides after the Surround *At Home* has been added.**

Do not tank mix with other white mineral particulate products like diatomaceous earth or other sunburn materials.

**General Application Instructions (see, also, specific crop use instructions):**

**Rates:** Rate is dependent on the amount of foliage that needs to be covered.

**Concentration (the amount of Surround *At Home* per 1 gallon of water):** Use Surround *At Home* at concentrations of 1/4 to 1/2 lb. (or 1.5 to 3 cups) per gallon of water.

**Coverage:** Use sufficient spray volume to obtain thorough near drip coverage. Two or more applications are desirable for complete coverage. For optimal performance as an insecticide, applications must coat all portions of plant that are to be protected, including both sides of the leaves. If coverage is insufficient additional sprays are necessary. Dwarf, semi-dwarf, and otherwise well-pruned trees will be easier to cover than large trees. Optimum efficacy may be more difficult to achieve in large trees due to increased difficulty achieving thorough coverage.

Reapplication is generally required every 7-14 days. Intervals can be widened to 14 to 21 days later in the season when new growth diminishes.

**Plant Color Change:** Plant surfaces will typically turn a hazy white color after drying. Additional treatments will turn the plant surfaces a deeper white. This is normal, and is indicative of appropriate film formation.

**Foliage Dryness:** Do not apply to dripping wet foliage. When the dry foliage has lost its white appearance, reapplication is necessary. Heavy rainfall, new growth, and wind erosion will affect film quality. Reapply to re-establish coverage after heavy rain as soon as the foliage is dry. However, reapplication may not be necessary if all target surfaces remain thoroughly coated. Do not apply excessively thick coatings.

**Non-Target Surfaces:** Do not spray where the resulting visible white film will be undesirable or cannot be washed off, such as porous wood, masonry, asphalt, and other valuable goods.

Corn	
PEST	APPLICATION INSTRUCTIONS
Aphids, armyworm, crickets, cutworms, flea beetles, grasshoppers, leafhoppers, loopers, sea chalcids, thrips, weevils	Suppression only*. Start prior to infestation. Apply every 5 - 10 days during infestation, with the first two applications 3 days apart. Tighten spray intervals during fast growing periods.
Sunburn and heat stress	See General Information/Growth Enhancer, Sunburn and Heat Stress Protectant/Sunburn Reduction
* Supplemental controls may be needed for complete control.	

**Tropical Crops**

Such as avocado, banana, guava, mango, papaya and pineapple	
PEST	APPLICATION INSTRUCTIONS
Aphids, avocado looper, coconut bug, crickets, fruit flies, grasshoppers, leafhoppers, leafrollers, mango weevil, mites, thrips	Suppression only*. Start prior to infestation. Apply minimum of 2 applications 7 - 14 days apart during application.
Sunburn and heat stress	See General Information/Growth Enhancer, Sunburn and Heat Stress Protectant/Sunburn Reduction
* Supplemental controls may be needed for complete control.	

**Special Directions**

Initial application over waxy surfaces such as mango fruit may bead and not spread adequately. Spreading is improved if Surround *At Home* is tank mixed with 1/4 to a full rate of potassium fatty acid products (See instructions under Brassica section). Subsequent applications may not require the additional spreader.

**Miscellaneous Crops**

Such as artichoke, fig, hops, ginseng, globe, kiwifruit, olives, okra, paw paw, peanut, persimmon, pomegranate, strawberry and water chestnut	
PEST	APPLICATION INSTRUCTIONS
Aphids, crickets, flea beetles, fruit flies, grasshoppers, leafhoppers, leafrollers, olive fruit fly, thrips, white fly	Suppression only*. Start prior to infestation. Spray every 7 - 14 days throughout infestation.
Sunburn and heat stress	See General Information/Growth Enhancer, Sunburn and Heat Stress Protectant/Sunburn Reduction
* Supplemental controls may be needed for complete control.	

**Leafy Vegetables (non-Brassica)**

Such as arugula, celery, lettuce, parsley, rhubarb, and spinach

PEST	APPLICATION INSTRUCTIONS
Aphids, armyworm, crickets, cutworms, flea beetles, grasshoppers, leafhoppers, loopers, sea chalcids, thrips, weevils	Suppression only*. Use only in early season to avoid residue at harvest. Start prior to infestation. Apply every 3 - 5 days to maintain adequate coverage throughout infestation.
Sunburn and heat stress	See General Information/Growth Enhancer, Sunburn and Heat Stress
* Supplemental controls may be needed for complete control.	

**Asparagus**

PEST	APPLICATION INSTRUCTIONS
Aphids, common and spotted asparagus beetle, crickets, grasshoppers, thrips	Suppression only*. Start prior to infestation. Apply every 7 - 10 days being sure to maintain coverage throughout infestation.
Sunburn and heat stress	See General Information/Growth Enhancer, Sunburn and Heat Stress
* Supplemental controls may be needed for complete control.	

**Other Crops**

**Volume:** Apply to near-drip. Do not apply to run-off to avoid waste and poor coverage. The volume of water per acre required will increase throughout the growing season in relationship to the increasing size of the crop and its foliage.

**Concentration** (the amount of Surround *At Home* per 1 gallon of water): Use concentrations of 1.5 to 3.0 cups of Surround *At Home* per gallon of water.

**Growth Enhancer, Sunburn and Heat Stress Protectant:**

When applied at instructed rates and frequencies, benefits such as increased plant vigor and improved yields may occur on many crops. Under high ambient temperatures, Surround *At Home* reduces canopy temperature and, therefore, can help to reduce heat and water stress. When Surround *At Home* is used, many fruits have shown improved fruit color, soluble solids, smoothness, and size with less russet, drooping, sunburn and cracking.

**Sunburn Reduction:** Apply before conditions leading to sunburn occur. If initiating sprays for sunburn reduction where there have been no prior sprays, apply initial 1-2 applications at full rates no more than 7 days apart. Depending upon the length of the high heat period, three to four applications in total may be needed, with subsequent applications every 14 - 21 days. Surround *At Home* may be rubbed off by leaf movement making reapplication necessary.

**CROP GROUPS**

**TREE FRUIT**

**Volume:** Apply to near-drip. Do not apply to run-off to avoid waste and poor coverage.

**Concentration** (the amount of Surround *At Home* per one gallon of water): Use concentrations of 1.5 to 3.0 cups of Surround *At Home* per gallon of water.

**Pome Fruits**

Such as apple, crabapple, quince, pear and locquast

PEST	APPLICATION INSTRUCTIONS
Pear psylla	<ul style="list-style-type: none"> <li>• <b>Prebloom:</b> Apply 3 applications, applying every 7-10 days starting at delayed dormant, but no later than green cluster bud.</li> <li>• <b>Petal Fall:</b> Apply 3 applications, applying every 7-14 days starting at first petal fall.</li> <li>• Spring populations can be reduced with a fall or winter application.</li> </ul>
Insects	Suppression only*. Start before infestation and continue at 7-14 day intervals. Longer intervals.

<b>Pear:</b> cutworms, mealy bug, pear midge, pear rust mite, pear slug, pearleaf blister mite. <b>Apple:</b> apple sucker, apple rust mite, climbing cutworm, eastern tent caterpillar, European apple sawfly, Gypsy moth, Japanese beetle, June beetle, lesser appleworm, leafminer, rosy apple aphid, spiraea aphid, tufted apple bud moth	
<b>Pear and Apple:</b> aphid, crickets, European red mite, grasshoppers, green fruit worm, leafrollers, Lygus bug, Mormon cricket, periodical cicada, San Jose scale, stink bug, tarnished plant bug, thrips, two-spotted spider mite.	
<b>Apple or Pear Diseases</b> rust, fábrea powdery mildew, sooty blotch	Suppression only.* Supplements are Cedar apple generally necessary especially in high leafspot, pressure areas.
Over-wintering leafrollers, especially oblique-banded (O.B.R.) Leafhoppers petal fall or at initial infestation	Apply 2 sprays 7 days apart starting just prior to green tip or at initial emergence leafroller of leafroller larvae Apply first spray within 3 days of first
Lacoonobia	Continue every 7-14 days during infestation period. • <b>Oviposition:</b> Apply at least one spray at start of oviposition and a second spray within 5-7 days. • <b>Egg Hatch:</b> Apply 2-3 sprays starting at initial egg hatch and continuing at 7 day intervals.

6

Bulb Vegetables	
Such as onion, garlic, leek and shallot	
PEST	APPLICATION INSTRUCTIONS
Thrips	Suppression only*. Start prior to infestation, applying every 5 - 7 days throughout infestation. Good coverage down into the plant crown is essential for efficacy.
Sunburn and heat stress	See General Information/Growth Enhancer, Sunburn and Heat Stress Protectant/Sunburn Reduction
* Supplemental controls may be needed for complete control.	

Cucurbits	
Such as cucumber, summer and winter squash, pumpkin, muskmelon, and watermelon	
PEST	APPLICATION INSTRUCTIONS
Aphids, crickets, cucumber beetle, grasshoppers, squash vine borer, silver leaf whitefly, squash bugs	Suppression only*. Start prior to infestation, applying every 5 - 7 days, with the first two applications 3 days apart.
Powdery mildew	Suppression only*. Apply every 7 - 14 days as required to maintain coverage.
Sunburn and heat stress	See General Information/Growth Enhancer, Sunburn and Heat Stress Protectant/Sunburn Reduction
* Supplemental controls may be needed for complete control.	

Brassica (Cole) Leafy Vegetables	
Such as broccoli, Brussels sprouts, cauliflower, collards, cabbage, mustard greens, canola and kohlrabi	
PEST	APPLICATION INSTRUCTIONS
Crickets, flea beetles, grasshoppers, loopers	Suppression only*. Use only in early season to avoid residue at harvest. Apply every 7 - 10 days making sure to wet the plant surface completely. Spreading will be improved on waxy brassica surfaces, if the first application is tank mixed with 1/4 to a full rate of potassium fatty acids such as Safer® brand soap products.
Sunburn and heat stress	See General Information/Growth Enhancer, Sunburn and Heat Stress Protectant/Sunburn Reduction
* Supplemental controls may be needed for complete control.	

15

**Root and Tuber Vegetables**  
**Such as potato, garden beet, sugar beet, horseradish, radish, rutabaga, carrot, sweet potato and turnip**

PEST	APPLICATION INSTRUCTIONS
Armyworm, Boll worm, Colorado potato beetle, crickets, cutworm, European red mite, flea beetles, grasshoppers, harlequin bug, imported cabbage worm, leaf-hoppers, tarnished plant bug, tomato horn worm, two-spotted spider mite	Suppression only*. Start prior to infestation, applying every 7 - 14 days throughout infestation.
Sunburn and heat stress	See General Information/Growth Enhancer, Sunburn and Heat Stress Protectant/Sunburn Reduction

\* Supplemental controls may be needed for complete control.

**Fruiting Vegetables**

**Such as tomato, pepper<sup>1</sup> and including eggplant<sup>1</sup>**

PEST	APPLICATION INSTRUCTIONS
Aphids, Colorado potato beetle, crickets, European red mite, flea beetles, grasshoppers, leafhoppers, lace bugs, stink bugs, tarnished plant bug, tomato horn worm, tomato pin worm, two-spotted spider mite	Suppression only*. Start prior to infestation, applying every 7 - 14 days throughout infestation.
Sunburn and heat stress	See General Information/Growth Enhancer, Sunburn and Heat Stress Protectant/Sunburn Reduction

<sup>1</sup>For fresh use apply only up to 1/4 fruit size  
 \* Supplemental controls may be needed for complete control.

Apple maggot	* Surround <i>At Home</i> can be used for the later generation of taconobia if fruit will be thoroughly washed prior to picking or packing. Apply 2 sprays 7 days apart before expected oviposition or first detection of infestation. Continue applications every 7-14 days to keep fruit completely covered during egg laying period.
Codling moth (first generation only), oriental fruit moth, plum curculio	Suppression only*. Apply at first detection. Continue applications every 7 days to keep fruit completely covered during egg lay period.
Sunburn and heat stress	See General Information/Growth Enhancer, Sunburn and Heat Stress Protectant/Sunburn Reduction

\* Supplemental controls may be needed for complete control.

**Horticultural Benefits**

Surround *At Home* can often improve fruit quality (See General Information/Growth Enhancer, Sunburn and Heat Stress Protectant for general horticultural benefits) if applications start at petal fall and are continued up until harvest. Many pear cultivars, particularly Comice and Anjou varieties have shown improved fruit color, smoothness, and size with less russet when Surround *At Home* is used.

**Diseases**

Surround *At Home* may enhance the efficacy of wettable sulfur and/or lime-sulfur against scab, powdery mildew, sooty blotch, and dyspeck. See Product Guides for specific mixture instructions. Fungicides, like sulfur, must be added to the tank after Surround *At Home* has been mixed in. It is especially important to keep small fruit covered.

**Stone Fruit**  
**Such as apricot, cherry<sup>1</sup>, nectarine, peach, plum, pluot,  
 plumcot and prune**

PEST	APPLICATION INSTRUCTIONS
Japanese beetle, rose chafer	Start one week prior to expected infestation and follow with 3 to 4 applications at 5 - 7 day intervals.
Oblique banded leaf-roller (OBLR), thrips	Suppression* only for OBLR. Start at pink bud and continue applications at 5 - 7 day intervals through jacket split.
Leafhoppers including sharpshooters	Suppression only*. Start before expected infestation, if possible. • Prebloom: Apply at 7 - 14 day intervals up to bloom • Post harvest: Apply 2 or more applications at 7 - 14 day intervals
Aphid, cherry fruit flies, crickets, European red mite, European earwig, grasshoppers, June beetle, leafhoppers, lesser peach tree borer, naval orange worm, oriental fruit moth, peachtree borer, peach silver mite, peach twig borer, stink bugs, tarnished plant bug, two-spotted spider mite, tufted apple bud moth Plum curculio	Suppression only*. Start before expected infestation, if possible and continue at 7 - 14 day intervals.  Suppression only*. Apply at 7 day intervals throughout egg laying period.

**Concentration** (the amount of Surround *At Home* per 1 gallon of water):  
 Use concentrations of 1.5 to 3.0 cups of Surround *At Home* per gallon of water.

Deer and rabbit damage may be reduced (suppressed) on garden vegetables. Start applications prior to animal feeding and maintain thorough coverage during feeding period. For plants on which Surround *At Home* does not adhere well, re-sprays as soon as possible are required following rainfall or protection will be lost.

**Legume Vegetables**  
**Such as bean, pea and soybean**

PEST	APPLICATION INSTRUCTIONS
Alfalfa looper, aphids, bean leaf beetle, crickets, European red mite, fall armyworm, flea beetles, grasshoppers, Japanese beetle, leafhoppers, Lygus bug, Mexican bean beetle, stink bug, tarnished plant bug, three cornered alfalfa hopper, thrips, two-spotted spider mite, velvet-bean caterpillar Sunburn and heat stress	Suppression only*. Start prior to infestation, applying every 7 - 14 days throughout infestation.  See General Information/Growth Enhancer, Sunburn and Heat Stress Protectant/Sunburn Reduction
* Supplemental controls may be needed for complete control.	

**Special Directions**

Only spray beans that are difficult to wash, such as string beans when beans are small.



Crickets, European red mite, two-spotted spider mite, rose chafer, omnivorous leaf-roller, grape berry moth, grape leafroller, grape leaf folder, grasshoppers, grape leaf skeletonizer, leaf hoppers, Japanese beetle, June beetle, thrips	Suppression only*. Start as infestation occurs, applying a minimum of 2 - 3 applications by applying every 7 - 14 days.
Leathoppers including sharpshooter	Apply initial application as infestation occurs, applying at least 2 - 3 applications by applying every 7 - 14 days throughout the infestation
* Supplemental controls may be needed for complete control.	

#### Special Directions

Harvest parameters may be altered and maturity may be delayed especially in white varieties. Closely monitor harvest parameters to determine optimal time to harvest. Changes in harvest parameters can affect taste. Do not spray table grapes from bloom to harvest. Infestations may be sprayed up to bloom, and again after harvest.

#### Garden Vegetables

**Volume:** Apply to near-drip. Do not apply to run-off to avoid waste and poor coverage. The volume of water/acre required will increase throughout the growing season in relationship to the increasing size of the crop and its foliage. Seedlings will need less water and a lower amount of Surround *At Home* than fully mature plants to uniformly coat their surfaces. Adjust the volume of water and rate used throughout the season based upon plant size. Lower volumes and rates are typically only used for immature plants.

Sunburn and heat stress	See General Information/Growth Enhancer, Sunburn and Heat Stress Protectant/Sunburn Reduction
† For processing fruit only	
* Supplemental controls may be needed for complete control.	

#### Special Directions

**Special Washing Considerations for Stone Fruit:** For fresh fruit, special washing is required; especially for fuzzy peaches. Most residues wash off with brushing and forced water sprays. Prior to brushing, a pre-soak in approved fruit cleaning detergent is usually needed for fuzzy peaches. If fresh peaches cannot be washed as noted above, discontinue sprays when the fruit are approximately 3/4 inch in diameter. Residues do not affect processed fruit quality.

For cherries, discontinue applications when fruit are half size (approximately 1/4 inch) if no washing is available.

#### Citrus Fruits

Such as lemon, lime, grapefruit, mandarin, and orange

PEST	APPLICATION INSTRUCTIONS
Thrips	Start at pre-bloom. Continue at 5 - 7 day intervals throughout bloom. Post-bloom continue at 7 - 14 day intervals through infestation.
Leathoppers including sharpshooters	<ul style="list-style-type: none"> <li>• Apply every 7 - 14 days as infestation occurs.</li> <li>• Pre-harvest: Apply at least 2 applications 7 days apart for pre-harvest control of sharpshooters.</li> </ul>
Aphids, citrus leaf miner, citrus psyllid, crickets, dipteres root weevil, grasshoppers, mites	Suppression only*. Apply every 7 - 14 days as infestation occurs.

Sunburn and heat stress	See General Information/Growth Enhancer, Sunburn and Heat Stress Protectant/Sunburn Reduction
* Supplemental controls may be needed for complete control.	

**Nut Crops**

**Volume:** Apply to near-drip, not to excessive run-off.

**Concentration** (the amount of Surround *At Home* per 1 gallon of water): Use concentrations of 1.5 to 3.0 cups of Surround *At Home* per gallon of water.

**Tree Nuts**

Such as almond, beech nut, Brazil nut, cashew, chestnut, ribbert, hickory nut, macadamia nut, pecan, walnut and including pistachio

PEST	APPLICATION INSTRUCTIONS
Aphids such as pecan, black, and yellow aphid, codling moth, crickets, grasshoppers, husk fly, leathoppers, mites, naval orange worm, peach twig borer, stink bug	Suppression only*. Start as infestation occurs. Apply every 7 - 14 days throughout infestation. For codling moth, apply a minimum of 2 sprays per generation.
Sunburn and heat stress	See General Information/Growth Enhancer, Sunburn and Heat Stress Protectant/Sunburn Reduction
* Supplemental controls may be needed for complete control.	

**Small Fruits**

**Volume:** Apply to near-drip. Do not apply to run-off to avoid waste and poor coverage. The volume of water/sage required will increase throughout the growing season in relationship to the increasing size of the crop and its foliage.

**Concentration** (the amount of Surround *At Home* per 1 gallon of water): Use concentrations of 1.5 to 3.0 cups of Surround *At Home* per gallon of water.

**Berries**

Such as blackberry, raspberry, dewberry, boysenberry, loganberry, elderberry, blueberry, ribes such as currant and gooseberry and including cranberry

PEST	APPLICATION INSTRUCTIONS
Blackberry psyllid, crickets, European raspberry aphid, European red mite, grasshoppers, Japanese beetle, leafhoppers, leafrollers, plum curculio, rose chafer, two-spotted spider mite, thrips	Suppression only*. Begin applications after fruit set and prior to infestation, applying every 7 - 14 days.
Blueberry maggot	Suppression only*. Apply 2 sprays 7 days apart before expected infestation or first detection of infestation. Continue applications every 7 - 14 days during egg lay period.
Sunburn and heat stress	See General Information/Growth Enhancer, Sunburn and Heat Stress Protectant/Sunburn Reduction
* Supplemental controls may be needed for complete control.	

**Special Directions**

Apply only to fruits to be used for processing (cooking) as the white film will be difficult to remove completely. Only apply on berries up to the first three weeks after fruit set as trace residues will be difficult to remove after harvest.

**Grapes**

PEST	APPLICATION INSTRUCTIONS
Thrips	Apply 1 - 2 applications 7 days apart starting at bud break