

# NATURAL FORCES

# SucraShield™

Biochemical Insecticide/Miticide for Greenhouse, Nursery & Field Crop Use

## Specimen Label

### ACTIVE INGREDIENT:

Sucrose Octanoate Esters ( $\alpha$ -D-Glucopyranosyl -  $\beta$ -D-fructofuranosyl - octanoate), mono-, di-, and triesters of sucrose octanoate ..... 40.0%  
**OTHER INGREDIENTS:** ..... 60.0%  
**TOTAL:** ..... 100.0%

EPA Reg. No. 70950-2-84710

EPA Est. No. 73273-TX-1  
 EPA Est. No. 075197-CA-001

## STOP - READ THE LABEL BEFORE USE KEEP OUT OF REACH OF CHILDREN WARNING / AVISO

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 someone to explain it to you in detail.)

### PRECAUTIONARY STATEMENTS

#### Hazard to Humans and Domestic Animals:

**WARNING:** Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear protective eyewear (goggles or face shield). Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

#### Personal Protective Equipment (PPE):

Applicators and other handlers must wear: Long sleeved shirt and long pants, shoes plus socks and protective eyewear.

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

#### User Safety Recommendations:

Users should:

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

#### Environmental Hazards:

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 disposing of equipment washwater or rinsate.

#### DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

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.

#### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (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 48 hours.

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

- coveralls,
- shoes plus socks,
- protective eyewear, and
- waterproof gloves.

Do not allow spray to drift from the application site and contact people, structures people occupy at any time and the associated property, parks and recreational areas, non-target crops, aquatic and wetland areas, woodlands, pastures, rangelands or animals.

For ground boom applications, apply with nozzle height no more than 4 feet above the ground or crop canopy and when wind speed is 10 mph or less at the application site as measured by an anemometer. Use fine or coarser spray according to ASAE 572 definition for standard nozzles or VMD for spinning atomizer nozzles.

For orchard/vineyard airblast applications, do not direct spray above trees/vines and turn off outward pointing nozzles at row ends and outer rows. Apply only when wind speed is 3-10 mph at the application site as measured by an anemometer outside of the orchard/vineyard on the upwind side.

The applicator also must use all other measures necessary to control drift.

#### GENERAL INFORMATION

SucraShield is a biochemical insecticide/miticide for use against the soft-bodied insects listed on this label, similar insect types, mites and thrips. It is primarily a contact insecticide with limited residual activity.

- Do not apply this product through any type of irrigation system.
- Apply as soon as infestation begins.
- Use in sufficient water to achieve adequate coverage.
- Repeat applications, as necessary, at intervals of 7 - 10 days, to maintain control.
- Thorough spray coverage of plant foliage, including the undersides of leaves, is essential for good control of the pest.
- Apply up to and including day of harvest.

#### PESTS CONTROLLED

Use this product as a foliar spray to control or suppress soft-bodied pests which include: adelgid, aphids, caterpillars, glassy-winged sharpshooter, lace bug, leafhopper, mealy bug, plant bug, psyllid, soft scale, mites, tent caterpillar, thrips and whitefly.

#### MIXING AND APPLICATION

Shake or stir before use.

SucraShield dissolves readily in water. To achieve and to maintain the suspension, add the appropriate quantity to water with agitation and maintain gentle agitation during application.

## Rate

- Use a 0.8% to 1.0% v/v solution of this product, depending on the severity of infestation.

Use between 25 and 400 gallons of total mix volume per acre. The amount of total mix required to achieve adequate coverage will vary with the type, growth stage and/or spacing of the treated crop.

Rate Table		
Total Mix Volume	% v/v Solution	Amount English (Metric)
25 gal. (94.63liters)	0.8%	25 Fl. Oz. (3 Cups) (740 ml)
	1.0%	1 Quart (950 ml.)
100 gal. (378.5 liters)	0.8%	3 Quarts+1 Cup (3.0 liters)
	1.0%	1 gallon (3.8 liters)

## Timing of Application

Initiate applications as soon as pest is observed. Repeat applications, as necessary, at intervals of 7 - 10 days to maintain control.

## Test Application

This product has been tested on many crops and ornamentals. However, it is not possible to evaluate all plant species or varieties for tolerance to this product. Test SucraShield for possible phytotoxic responses by treating a few plants at the label use rate prior to large scale use.

## Mixing

The user at his discretion can tank mix pesticides currently labeled for the same crop unless the product labels specifically prohibit such use. SucraShield has not been extensively tested for use in tank mixes with many commonly used insecticides, fungicides or spray tank adjuvants. Test all tank mix combinations for physical compatibility by first performing a jar compatibility test using proper proportions of chemicals and water.

- Always determine the compatibility of water, pesticides and other tank additives, such as penetrators, spreader stickers or activators, gibberellic acid, calcium nitrate or diatomaceous earth, foliar nutrients and alkaline based chelating agents such as EDTA, with this product prior to addition to the spray tank.
  - For best results, use freshly mixed spray made with soft water. If water has high mineral content (hardness >300 ppm or 17.5 grains/gallon), check for compatibility as described above. If needed, add a compatibility agent to the tank prior to the addition of this product. Do not lower the pH of the final spray mixture below 7.0.
  - A defoaming agent may be needed for use in sprayers equipped with an agitator.
  - Use freshly prepared spray solutions.
- When using this product in a tank mix, read and follow all product labels.

Mix in this order:

- Compatibility agent (if needed)
  - Wettable and soluble powders
  - Flowable liquids
  - Emulsifiable oils and concentrates
  - SucraShield
- Application of spray mixtures must conform to use precautions and directions for all products included in the tank mix. Spray promptly after mixing and keep combinations agitated to achieve and maintain the suspension.

## Application

- Apply this product with ground spray equipment. Do not apply this product through any type of irrigation system.
- This product must come into contact with the targeted pests to be effective. Complete coverage of plant foliage is essential for maximum control.
- Apply promptly after mixing with other pesticides to avoid or reduce alkaline hydrolysis of certain pesticides.

## INSECTICIDAL/MITICIDAL USES

### VEGETABLES, HERBS AND SPICES

(Greenhouse and Outdoor)

**Vegetables:** Artichoke, Asparagus, Brassica (cole), (such as: bok choy, broccoli, broccoli raab, Brussels sprouts, cabbage, cauliflower, Chinese broccoli, Chinese cabbage, collard greens, kale, kohlrabi, mustard greens, napa cabbage and Swiss chard), **Bulb** (such as: green onion, leeks, garlic, onion and shallot), **Cucurbit** (such as: cucumber, melon, pumpkin and summer squash), **Fruiting** (such as: eggplant, pepper and tomato), **Leafy** (such as: celery, endive, escarole, lettuce and spinach), **Legume** (such as: bean, pea and soybean), **Root and tuber** (such as: beet, carrot, horseradish, potato, radish, rutabaga, sugarbeet and yam), **Herbs and spices** (such as: basil, chive, dill, marjoram, mint, parsley and sage), **Watercress**.

**Pests Controlled:** Aphids, caterpillars, leafhoppers, mites, thrips, whiteflies.

### FRUIT AND NUT CROPS

**Citrus fruits** (such as: citron, grapefruit, kumquat, lemon, lime, tangelo, and tangerine), **Pome fruits** (such as: apple, crabapple, pear and quince), **Stone fruits** (such as: apricot, cherry, nectarine, peach, plum and prune), **Small Fruits and Berries** (such as: blackberry, blueberry, cane berries, cranberry, currants, grape, raspberry, strawberry, boysenberry, and olallieberry) **Tree nuts** (such as: almond, chestnut, filbert, pecan, pistachio, black and English walnut).

**Pests Controlled:** Aphids, glassy-winged sharp-shooter, leafhoppers, mites, mealy bug, psyllid, soft scale, thrips, whiteflies.

### FIELD CROPS

Alfalfa, Canola, Cotton, Peanut, Soybean, Tobacco and Wheat

**Pests Controlled:** Aphids, caterpillars, mites, thrips, whiteflies.

### HOPS, COFFEE, BANANA AND PINEAPPLE

**Pests Controlled:** Aphids, leafhoppers, mealy bug, mites, plant bug, soft scale, thrips, whiteflies.

### ORNAMENTAL LANDSCAPE TREES AND SHRUBS, CHRISTMAS TREES, ROSES, FLOWERS AND BEDDING PLANTS

**Pests Controlled:** Adelgid, aphids, lace bug, leafhopper, mealy bug, mites, plant bug, psyllid, soft scale, tent caterpillar, thrips, whiteflies.

### STORAGE AND DISPOSAL

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

**Pesticide Storage:** Store in a cool, dry location.

**Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**Container Disposal:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

### WARRANTY STATEMENT, DISCLAIMER

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