



## Biochemical Insecticide and Miticide for Greenhouse, Nursery, and Field Crop Use

### 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. 94424 - 1

EPA Est. No. 75197-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)

Manufactured for: PHD Group LLC

14143 Denver West Parkway  
Suite 100  
Golden, CO 80401

Net Contents:  1 Pint  1 Gallon  
 5 Gallons

Batch Code \_\_\_\_\_

### FIRST AID

- If in the eyes:**
- **Hold eyes 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 eyes. Call poison control center or doctor for treatment advice.**
- If swallowed:**
- **Call poison control center or doctor immediately for treatment advice.**
  - **Have a person sip a glass of water if able to swallow.**
  - **Do not induce vomiting unless told to do so by the poison control center doctor.**
  - **Do not give anything by mouth to an unconscious person.**

**HOT LINE NUMBER: 888-229-7414**

**Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact PHD Group LLC at 720-833-1162 for emergency medical treatment information.**

## 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 use.

### PERSONAL PROTECTIVE EQUIPMENT (PPE):

Applicators and other handlers must wear: Long sleeved shirt and long pants, shoes plus socks and protective eyewear, and a NIOSH approved dust mist filtering respirator with MSHA/NIOSH approved number prefix TC- 1C or a NIOSH approved respirator with any R, P, or HE filter.

Follow the manufacturer's instructions for cleaning / maintaining PPE. If not 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.

### ENVIRONMENTAL HAZARDS:

For terrestrial uses: 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. 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 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 4 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 ASABE S572.1 definition for standard nozzles or VMD for spinning atomizer nozzles.

For orchard/vineyard air blast 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 3-10 mph at the application site as measured by an anemometer outside of the orchard/vineyard on the upwind side.

### IMPORTANT USE INFORMATION

ORGANISHIELD Sucrose Octanoate 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.
- May be applied up to and including day of harvest.

### PESTS CONTROLLED

This product may be used 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 scales, mites, tent caterpillar, thrips and whitefly.

### MIXING AND APPLICATION

Shake or stir before use.

ORGANISHIELD Sucrose Octanoate 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	(Metric)	Amount English
25 gal. (94.63 litres)	0.8%	25 Fl. Oz.(3 Cups)	(740 ml)
	1.0%	1 Quart (950 ml)	
100 gal. (378.5 litres)	0.8%	25 Fl. Oz.(3 Cups) (3.0 litres)	
	1.0%	1 Gallon (3.8 litres)	

## 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 plants species or varieties for tolerance to this product. Test ORGANISHIED Sucrose Octanoate 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.

ORGANISHIELD Sucrose Octanoate has not been extensively tested for use in tank mixes 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 acids, 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 rains/ allons), 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 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

ORGANISHIELD Sucrose Octanoate

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

This product may be applied with round spray equipment. Do not apply this product through any type of irrigation system.

This product must come into contact with the target 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.

## VEGETABLES, HERBS AND SPICES

(Greenhouse and Outdoor)

Vegetables: Artichoke, Asparagus, Brassica(cole), (such as: boo 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), Fruitin (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, sugar beet 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, rape, raspberry, strawberry, boysenberry and olallieberry), Tree nuts (such as: almond, chestnut, filbert, pecan, pistachio, black and English walnut).

## FIELD CROPS

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

Pests Controlled: Aphids, Caterpillars, Mites, Thrips, Whiteflies.

## HOPS, COFFEE, BANANA AND PINEAPPLE

Pests Controlled: Aphid, Leafhoppers, Mealy bu , Mites, Plant bu , Soft scale, Thrips, Whiteflies.

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

Pests Controlled: Adel id, 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 cool, dry location.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this pesticide may be disposed of on site or at an approved waste 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, by burning. If burned, stay out of smoke.

WARRANTY STATEMENT, DISCLAIMER

PHD Group LLC (PHD) seeks to present reliable information

concerning the composition, properties and use of the product, however: (1) All advice concernin selection and use of this product is provided at no charge and with no warranty. (2) No warranty is made hereby. The product described herein is warranted to conform to PHD's specifications, therefore, only at the time of sale.

THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ANY AND ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, ARISING BY LAW OR CUSTOM, INCLUDING BUT NOT BY WAY OF LIMITATION, THE IMPLIED WARRANTY OF MERCHANTABILITY AND THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. Remedy of any breach of warranty is limited to replacement of the defective product. (3) PHD assumes no responsibility for any patent liability arisin from the use of the product in a process, manner or formula not desi ned by PHD. Nothing in the listed information shall be construed as an inducement or recommendation to use any processor to produce or use the product in conflict with existing or future patents.