



U.S. ENVIRONMENTAL PROTECTION AGENCY
 Office of Pesticide Programs
 Biopesticides and Pollution Prevention Division (7511P)
 1200 Pennsylvania Ave., N.W.
 Washington, D.C. 20460

EPA Reg. Number:

94424-1

Date of Issuance:

12/17/20

NOTICE OF PESTICIDE:

Registration
 Reregistration
 (under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

ORGANISHIELD SUCROSE
 OCTANOATE (40%)

Name and Address of Registrant (include ZIP Code):

PHD Group LLC
 14143 DENVER WEST PARKWAY SUITE 100
 GOLDEN, Colorado 80401

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Biopesticides and Pollution Prevention Division prior to use of the label in commerce. In any correspondence on this product, always refer to the above EPA Registration Number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA or the Act).

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

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration or registration review of your product when the EPA requires all registrants of similar products to submit such data.

Signature of Approving Official:

Andrew Bryceland, Team Leader
 Biochemical Pesticides Branch
 Biopesticides and Pollution Prevention Division (7511P)
 Office of Pesticide Programs

Date:

12/17/20

2. Make the following labeling change before you release this product for shipment:
 - Revise the EPA Registration Number to read, “EPA Reg. No. 94424-1.”
3. Submit one (1) copy of the final printed labeling for the record before you release this product for shipment.

Should you wish to add/retain a reference to your company’s website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the EPA. If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the EPA find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA-approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance Assurance.

Your release for shipment of this product constitutes acceptance of these terms. If these terms are not complied with, this registration will be subject to cancellation in accordance with FIFRA section 6. A stamped copy of the labeling is enclosed for your records. Please also note that the record for this product currently contains the following acceptable Confidential Statement of Formula (CSF):

- Basic CSF dated 12/4/19

Any CSFs other than those listed above are superseded.

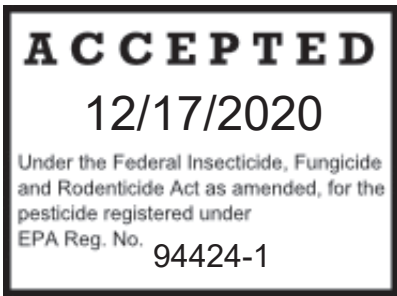
If you have any questions, please contact Susannah Powell of my team via email at powell.susannah@epa.gov.

Sincerely,



Andrew Bryceland, Team Leader
Biochemical Pesticides Branch
Biopesticides and Pollution
Prevention Division (7511P)
Office of Pesticide Programs

Enclosure



MASTER LABEL

ORGANISHIELD SUCROSE OCTANOATE (40%)

BIOCHEMICAL INSECTICIDE/MITICIDE

ACTIVE INGREDIENT:

Sucrose Octanoate Esters (α -D-Glucopyranosyl - β -D-fructofuranosyl - octanoate),
mono-,di-,and triesters of sucrose octanoate.....40.0%

OTHER INGREDIENTS.....60.0%

TOTAL.....100.0%

EPA REG. No. 94424 - New

EPA Est. No. _____

KEEP OUT OF REACH OF CHILDREN

WARNING

Manufactured for:

PHD Group LLC
14143 Denver West Parkway, Suite 100
Golden, CO 80401

Sublabel Guide

Sublabel A, Mushroom Media Treatment Use.....EPM-2
Sublabel B, Foliar Use.....EPM-5
Sublabel C, Honey Bee Treatment Use.....EPM-10

Net Contents: 1 Pint, 1 Gallon, 5 Gallons
Batch Code _____

MUSHROOM MEDIA TREATMENT USE

ORGANISHIELD SUCROSE OCTANOATE [40.0%]

Biochemical Insecticide For Sciarid Fly Control in Mushroom Growing Media

ACTIVE INGREDIENT:

Sucrose Octanoate Esters (α -D-Glucopyranosyl - β -D-fructofuranosyl - octanoate),
mono-,di-,and triesters of sucrose octanoate.....40.0%

OTHER INGREDIENTS.....60.0%

TOTAL.....100.0%

EPA REG. No. 94424 - New

EPA Est. No. _____

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)

First Aid	
If in 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 eye. 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 or 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 (970) 833-1162 for emergency medical treatment information.	

Manufactured for:
PHD Group LLC
14143 Denver West Parkway, Suite 100
Golden, CO 80401

Net Contents: 1 Pint, 1 Gallon, 5 Gallons
Batch Code _____

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-21C 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 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

Important Use Information

ORGANISHIELD Sucrose Octanoate controls the emergence of adult scard flies when applied to mushroom casing and/or compost prior to spawning. It is primarily a contact insecticide with limited residual activity. To achieve good control this product must be brought into contact with immature stage scard flies in the mushroom growing media. It does not affect directly adult scard flies.

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.

Rates: Use 1.25% to 2.50% v/v solution of this product depending on the severity of the infestation.

Sublabel A, Mushroom Media Treatment Use

Compost Treatment: Use 100-300 gallons of total mix volume per 8000 square feet of mushroom growing area. Apply between filling and spawning time or concurrently with spawning by thorough incorporation such as with a spawning machine.

Casing Treatment: Spray 200-400 gallons of total mix volume per 8000 square feet of mushroom growing area.

Rate Table

Total Mix Volume	% v/v Solution	Amount English (Metric)
100 gal. (378.5 litres)	1.25%	5.0 quarts (4.7 litres)
	2.50%	2.50 gallons (9.5 litres)

Test Application

Test ORGANISHIELD Sucrose Octanoate for possible effects on mushroom growth rates prior to large scale use.

Application

- Do not apply this product through any type of irrigation system.
- To achieve good control this product must come into contact with immature stage scard flies in the mushroom growing media.

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 product may be disposed of on site or at an approved waste disposal facility.

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

WARRANTIES STATEMENT, DISCLAIMER

PHD Group LLC (PHD) seeks to present reliable information concerning the composition, properties and use of the product, however: (1) All advice concerning 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 for any breach of warranty is limited to replacement of the defective product. (3) PHD assumes no responsibility for any patent liability arising from the use of the product in a process, manner or formula not designed by PHD. Nothing in the listed information shall be construed as an inducement or use the product in conflict with existing or future patents.

Sublabel B, Foliar Use

FOLIARUSE

ORGANISHILELD SUCROSE OCTANOATE [40.0%]

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

ACTIVE INGREDIENT:

Sucrose Octanoate Esters (α -D-Glucopyranosyl - β -D-fructofuranosyl - octanoate),
mono-,di-,and triesters of sucrose octanoate.....40.0%

OTHER INGREDIENTS.....60.0%

TOTAL.....100.0%

EPA Reg. No. 94424 - New

EPA Est. No. _____

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)

First Aid

If in 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 eye.
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 or 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 (970) 833-1162 for emergency medical treatment information.

Manufactured for:
PHD Group LLC

14143 Denver West Parkway, Suite 100
Golden, CO 80401

Net Contents: 1 Pint, 1 Gallon, 5 Gallons

Batch Code _____

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-21C 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 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 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 is 3-10 mph at the application site as measured by an anemometer outside of the orchard/vineyard on the upwind side.

Sublabel B, Foliar Use

<p style="text-align: center;">Important Use Information</p> <p>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.</p> <ul style="list-style-type: none"> • 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. <p style="text-align: center;">PESTS CONTROLLED</p> <p>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.</p> <p style="text-align: center;">MIXING AND APPLICATION</p> <p>Shake or stir before use.</p> <p>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.</p> <p>RATE</p> <ul style="list-style-type: none"> • Use a 0.8% to 1.0% v/v solution of this product, depending on the severity of infestation. <p>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.</p>	<p style="text-align: center;">RATE TABLE</p> <table border="1"> <thead> <tr> <th>Total Mix Volume</th> <th>% v/v Solution</th> <th>Amount English (Metric)</th> </tr> </thead> <tbody> <tr> <td rowspan="2">25 gal. (94.63 litres)</td> <td>0.8%</td> <td>25 Fl. Oz.(3 Cups) (740 ml)</td> </tr> <tr> <td>1.0%</td> <td>1 Quart (950 ml)</td> </tr> <tr> <td rowspan="2">100 gal. (378.5 litres)</td> <td>0.8%</td> <td>3 Quarts + 1 Cup (3.0 litres)</td> </tr> <tr> <td>1.0%</td> <td>1 Gallon (3.8 litres)</td> </tr> </tbody> </table> <p>Timing of Application</p> <p>Initiate applications as soon as pest is observed. Repeat applications, as necessary, at intervals of 7-10 days to maintain control.</p> <p>Test Application</p> <p>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.</p> <p>Mixing</p> <p>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 adjuvents. Test all tank mix combinations for physical compatibility by first performing a jar compatibility test using proper proportions of chemicals and water.</p> <ul style="list-style-type: none"> • 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 	Total Mix Volume	% v/v Solution	Amount English (Metric)	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%	3 Quarts + 1 Cup (3.0 litres)	1.0%	1 Gallon (3.8 litres)
Total Mix Volume	% v/v Solution	Amount English (Metric)												
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%	3 Quarts + 1 Cup (3.0 litres)												
	1.0%	1 Gallon (3.8 litres)												

Sublabel B, Foliar Use

with soft water. If water has high mineral content (hardness >300 ppm or 17.5 grains/gallons), 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 ground 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.

INSECTICIDAL/MITICIDAL USES

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), 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, 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, grape, 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 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 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 concerning 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 arising from the use of the product in a process, manner or formula not designed 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.

Sublabel C, Honeybee Treatment Use

HONEY BEE TREATMENT USE

ORGANISHILELD SUCROSE OCTANOATE [40.0%]

Biochemical Miticide For *Varroa* Mite Control on Honey Bees

ACTIVE INGREDIENT:

Sucrose Octanoate Esters (α -D-Glucopyranosyl - β -D-fructofuranosyl - octanoate),

mono-,di-,and triesters of sucrose octanoate.....40.0%

OTHER INGREDIENTS.....60.0%

TOTAL.....100.0%

EPA Reg. No. 94424 - New

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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)

First Aid

If in 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 eye.
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 or 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 (970) 833-1162 for emergency medical treatment information.

Manufactured for:
PHD Group LLC
14143 Denver West Parkway, Suite 100
Golden, CO 80401

Net Contents: 1 Pint, 1 Gallon, 5 Gallons
Batch Code _____

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-21C or a NIOSH approved respirator with any R, P, or HE filter.

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.

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. Apply only when wind speed is not more than 10 mph. For sprays, apply largest largest size droplets possible.

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

Important Use Information

ORGANISHIELD Sucrose Octanoate is a biochemical miticide for use against Varroa mites (Varroa destructor) on adult honey bees. It is primarily a contact miticide with limited residual activity.

- Do not apply this product through any type of feeding/ watering system.
- Apply as soon as infestation is detected.
- Use in sufficient water to achieve adequate coverage of adult honey bee population.
- Repeat applications at intervals of 7-10 days, up to three times per infestation, to control mites emerging from brood cells.
- Thorough spray coverage of adult honey bees on frames is essential for good control of the pest. Remove frames with adhering bees and spray both sides, or leave frames in place and apply this product to the frames spaces.

Sublabel C, Honeybee Treatment Use

MIXING AND APPLICATION

Shake or stir before use.

ORGANISHIELD Sucrose Octanoate is miscible 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 0.625% v/v solution of this product.

Apply 1.5 fl. oz. (45ml) of total mix volume to each full depth frame of bees, or 3.0 fl. oz. per frame space to the upper frame spaces. [typical 18 frame two story colony will receive 27-30 fl. oz. (810-900 ml) of total mix volume.]

Rate Table

Total mix	Rate Table	Amount
Volume	% v/v	English
	Solution	(metric)
2 gal.	0.625%	3 TBSP
(7.57 litres)		(50 ml)
10 gal.	0.625%	1 Cup
(37.85 litres)		(235 ml)

Timing of Application

Initiate applications as soon as Varroa mites are observed.

Repeat applications at intervals of 7-10 days, up to three times per infestation, to control mites emerging from brood cells.

Test Application

This product has been tested on European-derived honey bees managed in standard Langstroth style beehives in temperate areas of North America. However, it is not possible to evaluate all management systems and climate conditions. Test ORGANISHIELD Sucrose Octanoate for possible detrimental effects on honey bees by treating a few beehives at the label use rate prior to large scale use.

Application

- This product may be applied with a garden type pressure sprayer, a backpack sprayer, or powered commercial sprayer. Do not apply this product through any type of feeding/watering system.

*This product must come into contact with the *Varroa* mites to be effective. Complete wetting of the adult honey bee population frames is essential for maximum control.

*Use spray nozzle tip that delivers a fan-shaped spray pattern, such as VisiFlo Flat Spray Tip.

Prior to application, calculate the number of seconds needed to deliver the proper dosage by spraying into a measured container.

- Apply by either of the following methods:

Lift and Spray: Remove each frame with adhering bees and apply 1.5 fl. oz. of total mix volume to both sides, using a sprayer with a single nozzle.

Spray-Down: Spray between the frames spaces in the upper story of a two-story colony, applying 3.0 fl. oz. of total mix volume per frame space, using either a single nozzle sprayer or a multi-nozzle spray boom with nozzle spacing that conforms to the frame spaces.

- Do not apply when honey bees are in winter cluster or at temperatures below 55 degrees to avoid chilling the population.

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 onsite 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, stay out if smoke.

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