

1/12

70950-2

08/18/2005

MASTER LABEL

AVACHEM SUCROSE OCTANOATE [40.0%]
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. 70950-2

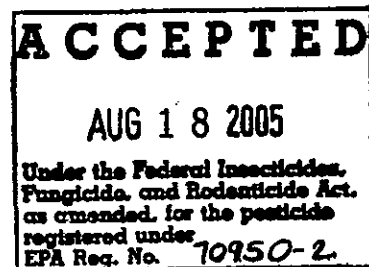
EPA Est. No. 075197-CA-001

KEEP OUT OF REACH OF CHILDREN

WARNING

Manufactured for:

AVA Chemical Ventures, L.L.C.
80 Rochester Avenue, Suite 214
Portsmouth, NH 03801



Net Contents: 1 Pint, 1 Gallon, 2.5 Gallons

EP Label Master.doc
Revised 08/03/05

EPM-1

2/2

MUSHROOM MEDIA TREATMENT - USE SUBLABEL

AVACHEM 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 INGREDIENT 60.0%

TOTAL 100.0%

EPA Reg. No. 70950-E

EPA Est. No. _____

U.S. Patent #'s 5, 756,716; 6,384,266

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:	<ul style="list-style-type: none"> • 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 swallowed:	<ul style="list-style-type: none"> • Call poison control center or doctor immediately for treatment advice. • Have 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 AVA Chemical Ventures, L.L.C. at 603-431-4242 for emergency medical treatment information.	

Manufactured for:
AVA Chemical Ventures, L.L.C.
80 Rochester Avenue, Suite 214
Portsmouth, NH 03801

Net Contents: 5 Gallons

3/2

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 cleaning equipment or disposing of equipment wash waters.

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.

GENERAL INFORMATION

AVACHEM SUCROSE OCTANOATE controls the emergence of adult sciarid 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 sciarid flies in the mushroom growing media. It does not directly affect adult sciarid flies.

MIXING AND APPLICATION

Shake or stir before use.

AVACHEM 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

4/2

product, depending on the severity of the infestation.

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.

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

AVA Chemical Ventures, L.L.C. (AVA Chemical) 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 AVA Chemical 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) AVA Chemical assumes no responsibility for any patent liability arising from the use of the product in a process, manner or formula not designed by AVA Chemical. Nothing in the listed information shall be construed as an inducement or recommendation to use any process or to produce or use the product in conflict with existing or future patents.

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

Test Application

Test AVACHEM 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 sciarid flies in the mushroom growing media.

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.

Revised 09/16/02

EPMM-3

5/12

FOLIAR USE SUBLABEL

AVACHEM SUCROSE OCTANOATE [40.0%]

Biochemical Insecticide/Miticide for Greenhouse, Nursery & 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 INGREDIENT 60.0%

TOTAL 100.0%

EPA Reg. No. 70950-E

U.S. Patent #'s 5,756, 716; 6,419,941

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:	<ul style="list-style-type: none"> • 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 swallowed:	<ul style="list-style-type: none"> • Call poison control center or doctor immediately for treatment advice. • Have 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	
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact AVA Chemical Ventures, L.L.C. at 603-431-4242 for emergency medical treatment information.</p>	

Manufactured for:
AVA Chemical Ventures, L.L.C.
80 Rochester Avenue, Suite 214
Portsmouth, NH 03801

Net Contents: 1 Gallon, 5 Gallons

6/12

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 cleaning equipment or disposing of equipment wash waters.

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 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.

Revised 09/16/02

EPF-2

7/12

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

GENERAL INFORMATION

AVACHEM 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 scale, mites, tent caterpillar, thrips and whitefly.

MIXING AND APPLICATION

Shake or stir before use.

AVACHEM 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	Amount English (Metric)
25gal. (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 AVACHEM 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. AVACHEM Sucrose Octanoate 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

1/2

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
- AVACHEM 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 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.

9/12

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

AVA Chemical Ventures, L.L.C. (AVA Chemical) 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 AVA Chemical 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) AVA Chemical assumes no responsibility for any patent liability arising from the use of the product in a process, manner or formula not designed by AVA Chemical. Nothing in the listed information shall be construed as an inducement or recommendation to use any process or to produce or use the product in conflict with existing or future patents.

Revised 09/16/02

EPP-5

10/12

HONEY BEE TREATMENT

AVACHEM 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 INGREDIENT 60.0%

TOTAL 100.0%

EPA Reg. No. 70950-2-2205

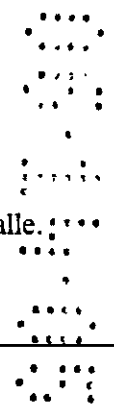
EPA Est. No. 075197-CA-001

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.)



FIRST AID

- | | |
|---------------|--|
| If in eyes: | <ul style="list-style-type: none"> • 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 swallowed: | <ul style="list-style-type: none"> • Call poison control center or doctor immediately for treatment advice. • Have 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 AVA Chemical Ventures, L.L.C. at 603-766-0288 for emergency medical treatment information.

Distributed by:
Dadant & Sons, Inc.
51 South 2nd Street
Hamilton, IL 62341

Net Contents: 1 Pint ~~5 Gallons~~

11/12

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.

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 cleaning equipment or disposing of equipment wash waters.

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 size droplets possible.

GENERAL INFORMATION

AVACHEM 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.

EP Label Varroa Mite w. Spray-Down Modif. .doc EP Label Varroa Mite Florida.doc

6/11/03

EPVMF-2

- ◆ 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 the 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 frame spaces.

MIXING AND APPLICATION

Shake or stir before use.

AVACHEM SUCROSE OCTANOATE dissolves readily 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. (45 ml) of total mix volume on 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)ml of total mix volume.]

Rate Table		
Total Mix Volume	% v/v Solution	Amount English (Metric)
2 gal. (7.57 liters)	0.625%	3 TBS (50 ml.)
10 gal. (37.85 liters)	0.625%	1 Cup (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 climatic conditions. Test AVACHEM 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 hand-held pressure sprayer, a ~~or~~ 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 on frames is essential for maximum control.
- Use a spray nozzle tip that delivers a fan-shaped spray pattern, such as VisiFlo Flat Spray Tip, #8002 (80 degree angle; 0.2 GPM), or equivalent.
- 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 frame 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°F to avoid chilling the bee population.

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

Dadant & Sons, Inc. (Dadant) 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 Dadant 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) Dadant assumes no responsibility for any patent liability arising from the use of the product in a process, manner or formula not designed by Dadant. Nothing in the listed information shall be construed as an inducement or recommendation to use any process or to produce or use the product in conflict with existing or future patents.

STORAGE AND DISPOSAL