

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.

- ◆ 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) 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.

12/12

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.

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