

This information is for promotional purposes only. Space considerations may require information to be omitted.  
Always refer to the actual package for complete label verbiage. This product may not yet be available or approved for sale or use in your area.

GROUP 20D ACARICIDE

# ENERVATE™ 4 SC



Contains bifentazate, the active ingredient used in Acramite® 4SC and Vigilant™ 4SC.

## Agricultural Miticide For Agricultural Use Only

|                                                                                                    |               |
|----------------------------------------------------------------------------------------------------|---------------|
| <b>ACTIVE INGREDIENT:</b>                                                                          | (% by weight) |
| bifenazate: hydrazine carboxylic acid, 2-(4-methoxy-[1,1'-biphenyl]-3-yl) 1-methylethyl ester..... | 43.2%         |
| <b>OTHER INGREDIENTS:</b> .....                                                                    | 56.8%         |
| <b>TOTAL:</b> .....                                                                                | 100.0%        |

Contains 4 pounds active ingredient bifentazate per gallon.

EPA Reg. No.: 91234-20

## KEEP OUT OF REACH OF CHILDREN CAUTION

| FIRST AID                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>IF SWALLOWED:</b>                                                                                                                                                                                                                                                                                    | <ul style="list-style-type: none"><li>• Call poison control center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to by a poison control center or doctor.</li><li>• Do not give anything to an unconscious person.</li></ul> |
| <b>IF INHALED:</b>                                                                                                                                                                                                                                                                                      | <ul style="list-style-type: none"><li>• Move the person to fresh air.</li><li>• If the person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>                            |
| HOT LINE NUMBER                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                        |
| Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency medical assistance, call SafetyCall: <b>1-844-685-9173</b> . For chemical emergency: spill, leak, fire, exposure or accident, call CHEMTREC: <b>1-800-424-9300</b> . |                                                                                                                                                                                                                                                                                                                                        |

**For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night  
Within USA and Canada: 1-800-424-9300 or +1 703-527-3887 (collect calls accepted)**

See inside booklet for additional Precautionary Statements and Directions for Use.

**Enervate™ 4SC is not manufactured or distributed by Macdermid Agricultural Solutions, Inc., seller of Acramite® 4SC and Vigilant™ 4SC.**

Product of China. Formulated in the US with US and imported ingredients.

450021-1216A



Manufactured for:  
**Atticus, LLC**  
501 Cascade Pointe Lane Suite 102  
Cary, NC 27513

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
CAUTION**

Harmful if swallowed. Harmful if inhaled. Avoid breathing spray mist. Prolonged or repeated skin contact may cause allergic reaction in some individuals.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

**Applicators and Other Handlers Must Wear:**

- Long-sleeved shirt and long pants,
- Shoes plus socks, and
- For mixing and loading activities when not using a closed system, wear an apron and chemical-resistant gloves made of barrier laminate, polyethylene, butyl rubber (≥14 mils), nitrile rubber (≥14 mils), neoprene rubber (≥14 mils), natural rubber (≥14 mils), polyvinyl chloride (≥14 mils), or Viton (≥14 mils).

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables exist, 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/PPE immediately if pesticide gets inside. Then, wash thoroughly and change into clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing them. As soon as possible, wash thoroughly and change clothing.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to birds, estuarine/marine invertebrates and fish. 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 wash waters or rinsate. This product is toxic to bees exposed to direct treatment. Do not apply this product while bees are foraging the treatment area.

**PHYSICAL OR CHEMICAL HAZARDS**

Do not use or store near heat or open flame. Do not mix or allow to come into contact with oxidizing agents. Hazardous chemical reaction may occur.

**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 (WPS), 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), notification to workers, 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 12 hours**. Exceptions are listed under the USE INSTRUCTIONS for each crop.

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
- chemical-resistant gloves made of any waterproof material.

**USE INFORMATION**

Enervate 4 SC provides both knockdown action as well as extended residual control of the following mites when applied directly to foliage as directed by this label:

|                    |                |                   |                    |
|--------------------|----------------|-------------------|--------------------|
| Avocado red spider | Clover         | Pecan leaf scorch | Spruce spider mite |
| Banks grass        | European red*  | Persea            | Strawberry spider  |
| Brown almond       | McDaniel       | Sixspotted        | Two-spotted spider |
| Citrus red         | Pacific spider | Southern red mite | Willamette         |

\* using maximum rate specified for the crop or crop group.

This product is appropriate for use in IPM and resistance management programs. The carbazate chemistry, mode of action, and selective nature of bifenazate make Enervate 4 SC relatively inactive against beneficial and/or predaceous mites and insects. Because this product is *not* systemic, effective control requires complete coverage of both upper and lower leaf surfaces.



## MIXING INSTRUCTIONS

This product is a flowable suspension concentrate, **users must be sure to stir or shake this product well prior to use.**

1. Fill spray tank with 1/2 the desired amount of water.
2. Begin agitation and add the required amount of Enervate 4 SC.
3. Fill the tank with the remaining amount of required water and continue agitation until spraying is completed.

NOTE: The stability of this product can be affected by high pH and high temperature. Spray mixtures containing Enervate 4 SC should be kept within pH 5.5 - 6.5.

**Tank Mixes:** To increase the number of insect and/or mite species controlled, this product may be tank-mixed with other insecticides. *It is strongly recommended that compatibility with other tank-mix partners be confirmed prior to broad-scale applications.* Tank mixtures are only permitted in States where all of the pesticide products used as tank-mix partners are registered. It is the pesticide user's responsibility to ensure that all pesticide products used in the tank mix are registered for the intended use. When tank-mixing, follow the most restrictive of all of the labeled use directions, use restrictions, and use limitations for the tank-mix partners.

## USE RATES AND DIRECTIONS

Enervate 4 SC controls the mite species listed above and is especially effective against grass, red and spider mites, primarily in the motile stage of development but does provide ovicidal control of spider mites (*Tetranychus* spp.) as well. Note that this product does NOT control broad, flat or rust mites. If mite pressure is not heavy, the lowest specified rates listed should be used. If mite pressure is significant or to provide extended residual control, the highest specified rates listed should be used. In order to maximize residual control, applications should be made as soon as mites are detected. For specific application rates, application numbers, and Pre-Harvest Intervals (PHI), refer to the appropriate USE INSTRUCTIONS tables below.

This product may be ground-applied using the following types of equipment: air-blast sprayers, compressed air, or hydraulic ground booms. The USE INSTRUCTIONS tables below indicate the minimum numbers of gallons of spray solution to apply per acre for ground applications.

This product may be applied aerially on certain crops using either a fixed-wing aircraft or a helicopter. A minimum spray volume that ensures complete canopy coverage must be used. Refer to the USE INSTRUCTIONS tables for the minimum numbers of gallons of spray solution to apply per acre (or apply the minimum gallons/acre allowed by your State, which may not be less than the minimum gallons/acre shown on this label).

**Chemigation (Cranberry, Mint, Potato, and Timothy, only):** Only one chemigation application may be made per year, and the system must be operated at 80% to 100% during the application to apply the minimum amount of water possible. Refer to the USE INSTRUCTIONS - BEARING CROPS tables for the ranges in application rates permitted and to the CHEMIGATION USE PRECAUTIONS AND INSTRUCTIONS FOR CRANBERRY, MINT, POTATO, AND TIMOTHY.

## USE RESTRICTIONS

- Do NOT plant another crop within 30 days after last application of this product. Planting within 30 days of last application increases the likelihood of bifentazate residues appearing in rotational crops.
- Do NOT exceed the maximum amount of bifentazate allowed per crop per year. This applies to *all* product(s) containing bifentazate that are applied to the crop in a year.

When applying to Golden Delicious apples, do NOT tank-mix oil with this product.

## USE INSTRUCTIONS - BEARING CROPS

If mite pressure is not heavy, the lowest specified rates listed should be used. If mite pressure is significant or to provide extended residual control, the highest specified rates listed should be used.

## AVOCADO

| Application Rate<br>(fl. oz. / Acre) | Minimum Gallons of Water per Acre |     | Acre Inches<br>of Water for<br>Chemigation | Maximum Number<br>of Applications<br>per Year | Minimum Number<br>of Days Between<br>Applications | Pre-Harvest<br>Interval (PHI)<br>in Days |
|--------------------------------------|-----------------------------------|-----|--------------------------------------------|-----------------------------------------------|---------------------------------------------------|------------------------------------------|
|                                      | Ground                            | Air |                                            |                                               |                                                   |                                          |
| 12 - 16                              | 50                                | -   | -                                          | 2                                             | 21 *                                              | 7                                        |

\* A miticide with a different mode of action should be used between any 2 applications of Enervate 4 SC.

## CANEBERRY SUBGROUP 13-07A: Blackberry; loganberry; red and black raspberry and cultivars and/or hybrids of these; Wild Raspberry

| Application Rate<br>(fl. oz. / Acre) | Minimum Gallons of Water per Acre |     | Acre Inches<br>of Water for<br>Chemigation | Maximum Number<br>of Applications<br>per Year | Minimum Number<br>of Days Between<br>Applications | Pre-Harvest<br>Interval (PHI)<br>in Days |
|--------------------------------------|-----------------------------------|-----|--------------------------------------------|-----------------------------------------------|---------------------------------------------------|------------------------------------------|
|                                      | Ground                            | Air |                                            |                                               |                                                   |                                          |
| 12 - 16                              | 50                                | -   | -                                          | 2                                             | 30 *                                              | 1                                        |

\* A miticide with a different mode of action should be used between any 2 applications of Enervate 4 SC.



## CHRISTMAS TREES / CONIFER PLANTATIONS AND NURSERIES

| Application Rate<br>(fl. oz. / Acre) | Minimum Gallons of Water per Acre |      | Acre Inches<br>of Water for<br>Chemigation | Maximum Number<br>of Applications<br>per Year | Minimum Number<br>of Days Between<br>Applications | Pre-Harvest<br>Interval (PHI)<br>in Days |
|--------------------------------------|-----------------------------------|------|--------------------------------------------|-----------------------------------------------|---------------------------------------------------|------------------------------------------|
|                                      | Ground                            | Air  |                                            |                                               |                                                   |                                          |
| 12 – 16                              | 100                               | 10 * | -                                          | 1                                             | -                                                 | -                                        |

\* Minimum gallons per acre OR the minimum permitted by your state, *but not less than shown*.

## COTTON

| Application Rate<br>(fl. oz. / Acre) | Minimum Gallons of Water per Acre |     | Acre Inches<br>of Water for<br>Chemigation | Maximum Number<br>of Applications<br>per Year | Minimum Number<br>of Days Between<br>Applications | Pre-Harvest<br>Interval (PHI)<br>in Days |
|--------------------------------------|-----------------------------------|-----|--------------------------------------------|-----------------------------------------------|---------------------------------------------------|------------------------------------------|
|                                      | Ground                            | Air |                                            |                                               |                                                   |                                          |
| 16 – 24                              | 20                                | 5 * | -                                          | 1                                             | -                                                 | 60                                       |

\* Minimum gallons per acre OR the minimum permitted by your state, *but not less than shown*.

**CUCURBIT VEGETABLES: Cucumbers; Edible Gourds<sup>1</sup>; Muskmelon<sup>2</sup>; Pumpkin; Squash (summer<sup>3</sup> and winter<sup>4</sup>), Watermelon; Chayote (fruit) (*Sechium edule*), Chinese waxgourd (Chinese preserving melon) (*Benincasa hispida*), Citrus melon (*Citrullus lanatus* var. *citroides*), Gherkin (*Cucumis anguria*), *Momordica* spp. (includes balsam apple, bitter melon, Chinese cucumber)**

| Application Rate<br>(fl. oz. / Acre) | Minimum Gallons of Water per Acre |      | Acre Inches<br>of Water for<br>Chemigation | Maximum Number<br>of Applications<br>per Year | Minimum Number<br>of Days Between<br>Applications | Pre-Harvest<br>Interval (PHI)<br>in Days |
|--------------------------------------|-----------------------------------|------|--------------------------------------------|-----------------------------------------------|---------------------------------------------------|------------------------------------------|
|                                      | Ground                            | Air  |                                            |                                               |                                                   |                                          |
| 12 – 16                              | 50                                | 10 * | -                                          | 1                                             | -                                                 | 3                                        |

\* Minimum gallons per acre OR the minimum permitted by your state, *but not less than shown*.

<sup>1</sup> Edible Gourd (*Lagenaria* spp.) (includes *hyotan* and *cucuzza*), and (*Luffa acutangula* and *L. cylindrical*) which includes hechima and Chinese okra.

<sup>2</sup> Muskmelon (hybrids and/or cultivars of *Cucumis melo*) includes true cantaloupe, casaba, crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, and snake melon.

<sup>3</sup> Squash, summer (*Cucurbita pepo* var. *melopepo*) includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini.

<sup>4</sup> Squash, winter (*Cucurbita maxima*: *C. moschata*) includes butternut squash, calabaza, hubbard squash; (*C. mixta*; *C. pepo*) includes acorn squash, spaghetti squash.

**DRIED SHELLED BEAN (EXCEPT SOYBEAN) SUBGROUP: Cultivars of *Lupinus* spp. include grain lupin, sweet lupin, white lupin, and white sweet lupin; *Phaseolus* spp. include field bean, kidney bean, lima beans (dry), navy bean, and pinto bean; tepary bean; *Vigna* spp., including adzuki bean, blackeyed pea, catjang, cowpea, Crowder pea, moth bean, mung bean, rice bean, southern pea, and urd bean; broad bean (dry); chickpea; guar; lablab bean; and lentil.**

| Application Rate<br>(fl. oz. / Acre) | Minimum Gallons of Water per Acre |     | Acre Inches<br>of Water for<br>Chemigation | Maximum Number<br>of Applications<br>per Year | Minimum Number<br>of Days Between<br>Applications | Pre-Harvest<br>Interval (PHI)<br>in Days |
|--------------------------------------|-----------------------------------|-----|--------------------------------------------|-----------------------------------------------|---------------------------------------------------|------------------------------------------|
|                                      | Ground                            | Air |                                            |                                               |                                                   |                                          |
| 16 – 24                              | 20                                | 7 * | -                                          | 2                                             | 14 **                                             | 7                                        |

\* Minimum gallons per acre OR the minimum permitted by your state, *but not less than shown*.

\*\* A miticide with a different mode of action should be used between any 2 applications of Enervate 4 SC.

**FRUITING VEGETABLES, GROUP 8-10: Eggplant; Okra; Peppers (including all varieties of *Capsicum* spp.<sup>1</sup>); Tomatoes (field grown); African eggplant; bush tomato; bell pepper; cocona; currant tomato; garden huckleberry; goji berry; ground cherry (*Physalis* spp.); martynia; naranjilla; pea eggplant; pepino; pepper (includes bell pepper, nonbell pepper, chili pepper, hot cooking pepper, pimento, sweet pepper), roselle; scarlet eggplant; sunberry; tomatillo; tree tomato; cultivars, varieties and/or hybrids of these.**

| Application Rate<br>(fl. oz. / Acre) | Minimum Gallons of Water per Acre |      | Acre Inches<br>of Water for<br>Chemigation | Maximum Number<br>of Applications<br>per Year | Minimum Number<br>of Days Between<br>Applications | Pre-Harvest<br>Interval (PHI)<br>in Days |
|--------------------------------------|-----------------------------------|------|--------------------------------------------|-----------------------------------------------|---------------------------------------------------|------------------------------------------|
|                                      | Ground                            | Air  |                                            |                                               |                                                   |                                          |
| 12 – 16                              | 50                                | 10 * | -                                          | 1                                             | -                                                 | 3                                        |

\* Minimum gallons per acre OR the minimum permitted by your state, *but not less than shown*.

<sup>1</sup>Pepper (*Capsicum* spp.) includes bell peppers, chili peppers, cooking peppers, pimento, and sweet peppers.

**SMALL FRUIT VINE CLIMBING SUBGROUP 13-07F, EXCEPT FUZZY KIWIFRUIT: Grape<sup>1</sup>; Amur River Grape; Gooseberry; Kiwifruit, hardy; Maypop; Schisandra Berry;** Cultivars, varieties and/or hybrids of these.

| Application Rate<br>(fl. oz. / Acre) | Minimum Gallons of Water per Acre |     | Acre Inches<br>of Water for<br>Chemigation | Maximum Number<br>of Applications<br>per Year | Minimum Number<br>of Days Between<br>Applications | Pre-Harvest<br>Interval (PHI)<br>in Days |
|--------------------------------------|-----------------------------------|-----|--------------------------------------------|-----------------------------------------------|---------------------------------------------------|------------------------------------------|
|                                      | Ground                            | Air |                                            |                                               |                                                   |                                          |
| 12 – 16                              | 50                                | -   | -                                          | 1                                             | -                                                 | 14                                       |

<sup>1</sup>Grapes: The REI is 5 days for cane turning, tying and girdling of table grapes. Exception: In addition to the early entry exceptions allowed by WPS, you may enter or allow workers to enter treated areas to perform all tasks other than tying, turning and girdling after 12 hours following applications, as long as at least long pants, long-sleeved shirts shoes and socks are worn. Notify workers of the exception (including when entry is permitted for each of the tasks named in the exception).

**HOPS**

| Application Rate<br>(fl. oz. / Acre) | Minimum Gallons of Water per Acre |     | Acre Inches<br>of Water for<br>Chemigation | Maximum Number<br>of Applications<br>per Year | Minimum Number<br>of Days Between<br>Applications | Pre-Harvest<br>Interval (PHI)<br>in Days |
|--------------------------------------|-----------------------------------|-----|--------------------------------------------|-----------------------------------------------|---------------------------------------------------|------------------------------------------|
|                                      | Ground                            | Air |                                            |                                               |                                                   |                                          |
| 12 – 24                              | 50                                | -   | -                                          | 1                                             | -                                                 | 14                                       |

**LEGUME VEGETABLES SUBGROUP 6A (succulent) SUCCULENT PEAS and BEANS SUBGROUP 6B; SUCCULENT SHELLED SOYBEAN: Bean (*Lupinus* spp.) (includes grain lupin, sweet lupin, white lupin, and white sweet lupin); bean (*Phaseolus* spp.) (includes field bean, kidney bean, lima beans, navy bean, pinto bean, runner bean, snap bean, tepary bean, wax bean); bean (*Vigna* spp.) (includes adzuki bean, asparagus bean, blackeyed pea, catjang, Chinese longbean, cowpea, Crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean, yardlong bean); broadbean (fava); chickpea (garbanzo); guar; jackbean; lablab bean; lentil; pea (*Pisum* spp.) (includes dwarf pea, edible-pod pea, English pea, field pea, garden pea, green pea, snow pea, sugar snap pea); pigeon pea; soybean (immature seed); sword bean; sugar pea; Chinese pea; pois mange tout; snap pea; ming pea; ming pea; podded pea; snow pea; China pea; chicharo; shi hia wandou; saya-endo; sugar snap pea; Congo pea; no-eye pea; red gram; arher; gandule; dhal; toor; gunds pea; Porto Rico pea; urher gandul; guandu; pois-d'angole; gungo pea.**

| Application Rate<br>(fl. oz. / Acre) | Minimum Gallons of Water per Acre |      | Acre Inches of<br>Water for<br>Chemigation | Maximum Number<br>of Applications<br>per Year | Minimum Number<br>of Days Between<br>Applications | Pre-Harvest<br>Interval (PHI) in<br>Days |
|--------------------------------------|-----------------------------------|------|--------------------------------------------|-----------------------------------------------|---------------------------------------------------|------------------------------------------|
|                                      | Ground                            | Air  |                                            |                                               |                                                   |                                          |
| 16 – 24                              | 20                                | 10 * | -                                          | 2                                             | 14 **                                             | 3                                        |

\* Minimum gallons per acre OR the minimum permitted by your state, *but not less than shown*.

\*\* A miticide with a different mode of action should be used between any 2 applications of Enervate 4 SC.

**MINT**

| Application Rate<br>(fl. oz. / Acre) | Minimum Gallons of Water per Acre |      | Acre Inches<br>of Water for<br>Chemigation | Maximum Number<br>of Applications<br>per Year | Minimum Number<br>of Days Between<br>Applications | Pre-Harvest<br>Interval (PHI) in<br>Days |
|--------------------------------------|-----------------------------------|------|--------------------------------------------|-----------------------------------------------|---------------------------------------------------|------------------------------------------|
|                                      | Ground                            | Air  |                                            |                                               |                                                   |                                          |
| 12 – 24                              | 50                                | 10 * | 0.1 – 0.2 **                               | 1                                             | -                                                 | 7                                        |

\* Minimum gallons per acre OR the minimum permitted by your state, *but not less than shown*.

\*\* Refer to USE RATES AND DIRECTIONS and CHEMIGATION USE PRECAUTIONS AND INSTRUCTIONS sections.

**POME FRUIT, GROUP 11-10: Apples; Crabapples; Pears; Quince; azarole; medlar; pear, Asian; quince, Chinese; quince, Japanese; tejocote;** cultivars, varieties and/or hybrids of these.

| Application Rate<br>(fl. oz. / Acre) | Minimum Gallons of Water per Acre |     | Acre Inches<br>of Water for<br>Chemigation | Maximum Number<br>of Applications<br>per Year | Minimum Number<br>of Days Between<br>Applications | Pre-Harvest<br>Interval (PHI)<br>in Days |
|--------------------------------------|-----------------------------------|-----|--------------------------------------------|-----------------------------------------------|---------------------------------------------------|------------------------------------------|
|                                      | Ground                            | Air |                                            |                                               |                                                   |                                          |
| 12 – 16                              | 50                                | -   | -                                          | 1                                             | -                                                 | 7                                        |



**POTATOES** Tuberous and corm vegetables: arracacha; arrowroot; artichoke, Chinese; artichoke, Jerusalem; canna, edible; cassava, bitter and sweet; chayote (root); chufa; dasheen (taro); ginger; leren; potato; sweet potato; tanier; turmeric; yam bean; yam, true.

| Application Rate<br>(fl. oz. / Acre) | Minimum Gallons of Water per Acre |      | Acre Inches<br>of Water for<br>Chemigation | Maximum Number<br>of Applications<br>per Year | Minimum Number<br>of Days Between<br>Applications | Pre-Harvest<br>Interval (PHI) in<br>Days |
|--------------------------------------|-----------------------------------|------|--------------------------------------------|-----------------------------------------------|---------------------------------------------------|------------------------------------------|
|                                      | Ground                            | Air  |                                            |                                               |                                                   |                                          |
| 16 – 24                              | 20                                | 10 * | 0.1 – 0.2 **                               | 2                                             | 14 ***                                            | 14                                       |

\* Minimum gallons per acre OR the minimum permitted by your state, *but not less than shown*.

\*\* Refer to USE RATES AND DIRECTIONS and CHEMIGATION USE PRECAUTIONS AND INSTRUCTIONS sections.

\*\*\* A miticide with a different mode of action should be used between any 2 applications of Enervate 4 SC.

**LOW GROWING BERRY SUBGROUP 13-07G; Strawberry; Bearberry; Bilberry; Blueberry, lowbush; Cloudberry; Cranberry; Lingonberry; Muntries; Partridgeberry;** Cultivars, varieties, and/or hybrids of these.

| Application Rate<br>(fl. oz. / Acre) | Minimum Gallons of Water per Acre |     | Acre Inches of<br>Water for<br>Chemigation | Maximum Number<br>of Applications<br>per Year | Minimum Number<br>of Days Between<br>Applications | Pre-Harvest<br>Interval (PHI) in<br>Days |
|--------------------------------------|-----------------------------------|-----|--------------------------------------------|-----------------------------------------------|---------------------------------------------------|------------------------------------------|
|                                      | Ground                            | Air |                                            |                                               |                                                   |                                          |
| 12 – 16                              | 100                               | -   | 0.1 – 0.2 *<br>(Cranberry ONLY)            | 2                                             | 21 **                                             | 1                                        |

\* Refer to USE RATES AND DIRECTIONS and CHEMIGATION USE PRECAUTIONS AND INSTRUCTIONS sections.

\*\* A miticide with a different mode of action should be used between any 2 applications of Enervate 4 SC.

**STONE FRUIT: Apricots; Cherries** (sweet & tart); **Nectarines; Peaches; Plums/Prunes** (*Prunus domestica*, *Prunus* spp.), **Chickasaw Plum** (*Prunus augustifolia*), **Damson Plum** (*Prunus domestica* spp. *insititia*), **Japanese Plum** (*Prunus salcina*), and **Plumcot** (*Prunus armeniaca* X *P. domestica*)

| Application Rate<br>(fl. oz. / Acre) | Minimum Gallons of Water per Acre |     | Acre Inches<br>of Water for<br>Chemigation | Maximum Number<br>of Applications<br>per Year | Minimum Number<br>of Days Between<br>Applications | Pre-Harvest<br>Interval (PHI)<br>in Days |
|--------------------------------------|-----------------------------------|-----|--------------------------------------------|-----------------------------------------------|---------------------------------------------------|------------------------------------------|
|                                      | Ground                            | Air |                                            |                                               |                                                   |                                          |
| 12 – 16                              | 50                                | -   | -                                          | 1                                             | -                                                 | 3                                        |

**TIMOTHY** forage and hay fed to horses ONLY.

(Applications are only permitted in Eureka and Humboldt Counties in Nevada)

| Application Rate<br>(fl. oz. / Acre) | Minimum Gallons of Water per Acre |     | Acre Inches<br>of Water for<br>Chemigation | Maximum Number<br>of Applications<br>per Year | Minimum Number<br>of Days Between<br>Applications | Pre-Harvest<br>Interval (PHI)<br>in Days |
|--------------------------------------|-----------------------------------|-----|--------------------------------------------|-----------------------------------------------|---------------------------------------------------|------------------------------------------|
|                                      | Ground                            | Air |                                            |                                               |                                                   |                                          |
| 16 – 24                              | 20                                | 10  | 0.1 – 0.2 *                                | 1                                             | -                                                 | Forage: 0<br>Hay: 7                      |

\* Refer to USE RATES AND DIRECTIONS and CHEMIGATION USE PRECAUTIONS AND INSTRUCTIONS sections.

**TREE NUTS: Almonds**

| Application Rate<br>(fl. oz. / Acre) | Minimum Gallons of Water per Acre |     | Acre Inches<br>of Water for<br>Chemigation | Maximum Number<br>of Applications<br>per Year | Minimum Number<br>of Days Between<br>Applications | Pre-Harvest<br>Interval (PHI)<br>in Days |
|--------------------------------------|-----------------------------------|-----|--------------------------------------------|-----------------------------------------------|---------------------------------------------------|------------------------------------------|
|                                      | Ground                            | Air |                                            |                                               |                                                   |                                          |
| 12 – 24                              | 50                                | -   | -                                          | 1                                             | -                                                 | 7                                        |

**TREE NUTS: Beech nut; Brazil nut; Butternut; Cashew; Chestnut; Chinquapin; Filbert (Hazelnut); Hickory nut; Macadamia nut (bush nut); Pecans; Pistachios; Walnuts (black & English)**

| Application Rate<br>(fl. oz. / Acre) | Minimum Gallons of Water per Acre |     | Acre Inches<br>of Water for<br>Chemigation | Maximum Number<br>of Applications<br>per Year | Minimum Number<br>of Days Between<br>Applications | Pre-Harvest<br>Interval (PHI)<br>in Days |
|--------------------------------------|-----------------------------------|-----|--------------------------------------------|-----------------------------------------------|---------------------------------------------------|------------------------------------------|
|                                      | Ground                            | Air |                                            |                                               |                                                   |                                          |
| 12 – 24                              | 50                                | -   | -                                          | 1                                             | -                                                 | 14                                       |



**TROPICAL FRUIT: Papaya; Star Apple; Black Sapote; Mango; Sapodilla; Canistel; Mamey Sapote; Lychee; Longan; Spanish Lime; Rambutan; Pulasan; Guava; Feijoa; Jaboticaba; Wax Jambu; Starfruit (Carambola); Passionfruit; Acerola; Sugar Apple; Cherimoya; Atemoya; Custard Apple; Ilama; Soursap; Biriba**

| Application Rate<br>(fl. oz. / Acre) | Minimum Gallons of Water per Acre |     | Acre Inches<br>of Water for<br>Chemigation | Maximum Number<br>of Applications<br>per Year | Minimum Number<br>of Days Between<br>Applications | Pre-Harvest<br>Interval (PHI)<br>in Days |
|--------------------------------------|-----------------------------------|-----|--------------------------------------------|-----------------------------------------------|---------------------------------------------------|------------------------------------------|
|                                      | Ground                            | Air |                                            |                                               |                                                   |                                          |
| 12 – 16                              | 50                                | -   | -                                          | 2                                             | 21 *                                              | 1                                        |

\* A miticide with a different mode of action should be used between any 2 applications of Enervate 4 SC.

**USE INSTRUCTIONS - NON-BEARING CROPS**

This product may be used on non-bearing crops (defined as crops that will not bear fruit within one year of application), including all crops listed for the USE INSTRUCTIONS - BEARING CROPS tables as well as the Additional Crops listed below. This use includes application to non-bearing fruit trees and berries in commercial nurseries and tree plantations.

Non-bearing crop applications may be used to control the following mites:

|              |                   |                    |            |
|--------------|-------------------|--------------------|------------|
| Banks grass  | European red*     | Southern red mite  | Willamette |
| Brown almond | McDaniel          | Spruce spider mite |            |
| Citrus red   | Pacific spider    | Strawberry spider  |            |
| Clover       | Pecan leaf scorch | Two-spotted spider |            |

\* using the maximum rate specified for the crop or crop group.

**USE RESTRICTIONS FOR NON-BEARING CROPS**

- Applications may be made using ground equipment ONLY.
- The non-bearing crops listed below have a 12-hour restricted entry interval (REI).

**Additional Crops: Berries** (blueberry, highbush; elderberry; huckleberry); **Citrus** (grapefruit, lemons, limes, oranges, tangerines, etc.); **Currants; Dates; Figs; Persimmons**

| Application Rate (fl. oz. / Acre) | Minimum Gallons of Water per Acre | Maximum Number of Applications per Year |
|-----------------------------------|-----------------------------------|-----------------------------------------|
| 12 – 16                           | 50                                | 1                                       |

**CHEMIGATION USE PRECAUTIONS AND INSTRUCTIONS FOR CRANBERRY, MINT, POTATOES AND TIMOTHY**

- Apply this product only through sprinkler systems, including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move irrigation systems. Do not apply this product through any other type of irrigation system.
- Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.
- If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.
- Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.
- A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make the necessary adjustments should the need arise.
- The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- Do not apply when wind speed favors drift beyond the area intended for treatment.
- Maintain constant agitation in the supply tank for the duration of the application.
- To insure complete mixing of the spray solution, use a positive displacement pump to inject the solution before a right angle turn in the main line.
- Applying more than the recommended amount of irrigation water per acre may result in decreased performance due to the chemical being flushed from leaf surfaces.
- Do NOT apply this product if there are leaks in any of the fittings or connections, if nozzles do not provide uniform distribution, or if lines containing this product will be drained and dismantled.



- Apply this product for the entire duration of the irrigation process. Calibration accuracy and product distribution will be improved if a larger volume of a more dilute mixture is injected.
- Poor control of mites may result if sprinkler application patterns do not sufficiently overlap. Excessive overlap may result in crop injury.
- Contact State lead agencies for pesticide regulation for State-specific requirements pertaining to chemigation.

### STRATEGIES FOR RESISTANCE MANAGEMENT

This product is highly effective against mites while safe for predaceous beneficial insects when used as directed. The chemistry of this product also helps in controlling mites that have developed a resistance to other commonly used products. Due to these properties, fewer product applications for mite control may be necessary; and the likelihood of resistance development is reduced. The active ingredient in Enervate 4 SC is a Group 20D Acaricide that has no demonstrated cross-resistance with other commercial miticides, and is suitable for use in rotation with other miticides.

To help prevent resistance from developing, the following strategies should be followed:

- IPM techniques should be incorporated into your insect control program.
- Ensure all treated foliage is thoroughly covered by spray.
- Do not wait to apply until pest pressure is heavy. Scout regularly and apply Enervate 4 SC as soon as mites are detected.
- Always apply Enervate 4 SC as required by this label.
- Unless otherwise indicated in this label, make only one application of Enervate 4 SC per year and rotate to a product with a different mode of action.
- Because of its selectivity, Enervate 4 SC can be used in conjunction with most biological control organisms available for mite control. Enervate 4 SC, when used as directed, does not adversely affect populations of beneficial/predaceous mites and insects including:

Common lacewing (*Chrysopa carnea*)

Insidious flower bug (*Orius insidiosus*)

Predatory mite (*Amblyseius fallacis*)

Predatory mite (*Typhlodromus pyri*)

Predatory mite (*Zetzellia mali*)

Predatory mite (*Phytoseiulus persimilis*)

Seven-spotted lady beetle (*Coccinella septempunctata*)

Six-spotted thrips (*Scolothrips sexmaculatus*)

Spider mite destroyer (*Stethorus punctum*)

Western flower thrips (*Frankliniella occidentalis*)

Western predatory mite (*Typhlodromus occidentalis*)

The use of these organisms in conjunction with Enervate 4 SC is encouraged as a means of reducing the number of chemical applications.

## STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Store in a dry location.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

### CONTAINER HANDLING:

[For rigid, non-refillable containers (≤ 5 gallons):] Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake container for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer container for recycling, if available, or puncture and dispose of container in a sanitary landfill, or by incineration.

[For rigid, non-refillable containers (> 5 gallons):] Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer container for recycling, if available, or puncture and dispose of container in a sanitary landfill, or by incineration.



## Conditions of Sale and Limitation of Warranty and Liability

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials, resistant strains or other influencing factors in the use of the product, which are beyond the control of Atticus, LLC or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Atticus, LLC and Seller harmless for any claims relating to such factors.

To the extent allowed by applicable laws, Atticus, LLC warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of the product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or Atticus, LLC and Buyer and User assume the risk of any such use. TO THE EXTENT ALLOWABLE BY APPLICABLE LAW, ATTICUS, LLC MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

To the extent allowed by applicable laws, in no event shall Atticus, LLC or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT ALLOWABLE BY APPLICABLE LAW THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF ATTICUS, LLC AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF ATTICUS, LLC OR SELLER, THE REPLACEMENT OF THE PRODUCT.

Atticus, LLC and Seller offer this product, and Buyer and User accept it, subject to foregoing conditions of sale and limitations of warranty and of liability, which may not be modified except by written agreement signed by a duly authorized representative of Atticus, LLC.

Acramite® and Vigilant™ are registered trademarks of Macdermid Agricultural Solutions, Inc.

Enervate 4 SC is not manufactured or distributed by Macdermid Agricultural Solutions, Inc., seller of Acramite® 4SC and Vigilant™ 4SC.

SPECIMEN