

## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

September 7, 2016

Mr. Frederick T. Smith, Agent HollyFrontier Refining & Marketing LLC c/o SciReg, Inc. 401 Plymouth Road, Suite 350 Plymouth Meeting, PA 19462

Subject: Label Amendment – Adding Mosquito Larvicide Use and Alternate Brand Name Product Name: Sunspray 6E Plus EPA Registration Number: 86330-11 Application Date: February 29, 2016 Decision Number: 514643

Dear Mr. Smith:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

The alternate brand name Sunspray MLO has been added to the product record.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements 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 Agency 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.

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Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, please contact Carlyn Petrella by phone at 703-347-0439, or via email at petrella.carlyn@epa.gov.

Sincerely,

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Richard Gebken Product Manager 10 Invertebrate & Vertebrate Branch 2 Office of Pesticide Programs

Enclosure

# Master Label SUNSPRAY® 6E PLUS

<u>Marketing Statement</u>: A Superior horticultural spray oil for insect and mite pest management. **Sublabel A: Agricultural Use** 

Sublabel B: Mosquito Larvicide Use

Active Ingredient:

| Mineral Oil*      |  |
|-------------------|--|
| Other Ingredients |  |
| Total             |  |
|                   |  |

| *Unsulfonated Residue of Mineral Oil       | 92.0% min  |
|--|------------|
| *50% Distillation Point of Mineral Oil     | 414.0°F    |
| *10%-90% Distillation Range of Mineral Oil | 65.0°F Max |
| *Flash Point                               | 345.0°F    |
| Weight per Gallon                          | 7.1 lbs    |
| *Contains petroleum distillates            |            |



Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 86330-11

## KEEP OUT OF REACH OF CHILDREN CAUTION

## **FIRST AID**

## If on skin or clothing:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

## If swallowed:

- Immediately call a poison control center or doctor.
- DO NOT INDUCE VOMITING unless told to do so by a poison control center or doctor.
- Do not give **any** liquid to the person.
- Do not give anything by mouth to an unconscious person.

## If in eyes:

- 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.
- Call a poison control center or doctor for treatment advice.

## If inhaled:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-tomouth, if possible.
- Call a poison control center or doctor for further treatment advice.

## HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or when going for treatment. You may also call 1-918-594-6000 for emergency medical treatment information 24/7.

## NOTE TO PHYSICIAN

Contains petroleum distillates. Vomiting may cause aspiration pneumonia. Aspiration may occur after swallowing or vomiting and results in serious, and sometimes delayed, lung injury.

#### See Additional Precautionary Statements Inside Booklet. See Directions for Use inside Booklet.

EPA Reg. No. 86330-11 EPA Est. No. 86330-OK-1 NET CONTENTS: \_\_\_\_\_ Batch/Lot Number: \_\_\_\_\_ Produced For: HollyFrontier Refining & Marketing LLC 401 Plymouth Road Suite 350 Plymouth Meeting, PA 19462

#11 SS-3191 Master w/MLO 080516

## Sublabel A For Agricultural Use

# SUNSPRAY® 6E PLUS

Marketing Statement: A Superior horticultural spray oil for insect and mite pest management.

| Active Ingredient:<br>Mineral Oil*<br>Other Ingredients<br>Total.              | <u>1.2%</u> |
|--|-------------|
| *Unsulfonated Residue of Mineral Oil<br>*50% Distillation Point of Mineral Oil |             |
| *10%-90% Distillation Range of Mineral Oil<br>*Flash Point                     | 65.0°F Max  |
| Weight per Gallon<br>*Contains petroleum distillates                           |             |

## KEEP OUT OF REACH OF CHILDREN CAUTION

See Additional Precautionary Statements Inside Booklet. See Directions for Use inside Booklet.

EPA Reg. No. 86330-11 EPA Est. No. 86330-OK-1 NET CONTENTS: \_\_\_\_\_ Batch/Lot Number: \_\_\_\_\_

## **Produced For:**

HollyFrontier Refining & Marketing LLC 401 Plymouth Road Suite 350 Plymouth Meeting, PA 19462

## PRECAUTIONARY STATEMENTS

#### Hazards to Humans & Domestic Animals.

**CAUTION:** Harmful if swallowed or absorbed through skin. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

## **FIRST AID**

## If on skin or clothing:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

## If swallowed:

- Immediately call a poison control center or doctor.
- DO NOT INDUCE VOMITING unless told to do so by a poison control center or doctor.
- Do not give **any** liquid to the person.
- Do not give anything by mouth to an unconscious person.

#### If in eyes:

- 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.
- Call a poison control center or doctor for treatment advice.

#### If inhaled:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-tomouth, if possible.
- Call a poison control center or doctor for further treatment advice.

#### HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or when going for treatment. You may also call 1-918-594-6000 for emergency medical treatment information 24/7.

#### NOTE TO PHYSICIAN

Contains petroleum distillates. Vomiting may cause aspiration pneumonia. Aspiration may occur after swallowing or vomiting and results in serious, and sometimes delayed, lung injury.

## PERSONAL PROTECTIVE EQUIPMENT (PPE)

## Mixers, loaders, applicators, flaggers, and other handlers must wear:

- long-sleeve shirt and long pants,
- shoes plus socks,

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent material that have been drenched or heavily contaminated with the product's concentrate. Do not reuse them.

## ENGINEERING CONTROLS FOR AERIAL APPLICATIONS

**Engineering Controls**: Pilots must use an enclosed cockpit that meets the requirements listed in the WPS for agricultural pesticides [40 CFR 170.240(d) (6)].

## USER SAFETY RECOMMENDATIONS

Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into 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 disposing of equipment washwater or rinsate. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Apply this product only as specified on this label.

# **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 through any type of irrigation system. 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 State or Tribal agency responsible for pesticide regulation.

## AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard. Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 hours. PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as soil or water, is: coveralls, shoes plus socks, and chemical-resistant gloves made of any waterproof material.

## NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to protect agricultural plants on farms, forests, nurseries, or greenhouses. Do not enter or allow others to enter until sprays have dried.

## **USE SITE RESTRICTIONS**

This product may be applied on the plants listed on this label which are growing in or around habitable buildings, along city streets and other rights-of-ways, as well as in agricultural settings. Refer to the appropriate table for the application rate specified to control a specific pest on a specific plant.

## PESTS CONTROLLED

This product may be used to control adelgids, aphids, lace bugs, leafhoppers, leafminers (larvae), mealybugs, mites, plant bugs, psyllids, sawfly larvae, scales, thrips, whitefly and eggs of aphids, mites and hairless caterpillars on vegetables, fruits, tree nuts, certain field crops, shrubs, trees, greenhouse plants, ornamental foliage plants and flowers. This product may be applied up to harvest.

## **MIXING DIRECTIONS**

1. Add sufficient water to the mixing tank to allow proper agitation by pump or paddles.

Add other desired pesticide. If a wettable powder formulation is to be added, mix the water and powder thoroughly so that the powder is totally suspended in the water before the oil is added. If other pesticide to be added is an emulsifiable formulation, do so after the oil and water has been thoroughly mixed.
 Add oil under agitation when tank is 3/4 full. Top off with water to form milky white solution, indicating good emulsification.

4. Maintain agitation until solution is used.

- 5. In small equipment lacking agitators, stir or shake diluted spray frequently during application.
- 6. Read and follow all directions and restrictions on the labels of the proposed tank-mix products.

7. Flush fluid in sprayer hose lines back into tank reservoir if fluid is allowed to stand for more than 20 minutes.

8. DO NOT USE THIS MATERIAL IF IT DOES NOT EMULSIFY.

## **APPLICATION INSTRUCTIONS**

The target pest must be completely covered with spray. Oil residue on the plant surface often acts as a feeding and oviposition deterrent. However, the primary target is the pest itself as oil is a contact pesticide. **DILUTE APPLICATIONS:** Use the minimum number of gallons needed to completely cover all the tree surfaces, but not to the point of runoff. For most tree fruits this can be as much as 300-800 gallons of spray solution per acre or as low as 100 gallons of spray solution per acre. Dilute applications typically provide better coverage than concentrate applications.

**CONCENTRATE APPLICATIONS:** (usually from 45 to 125 gallons of spray solution per acre) may reduce coverage and effectiveness. Concentrate application includes the use of low volume (from 10 to 100 gallons of spray solution per acre) sprayers. A concentrate application can provide satisfactory results as long as the spray unit is properly engineered, calibrated and operated. Speed of travel for ground application is extremely important. Tractor speed from 1 M.P.H. to 4 M.P.H. is recommended depending on crop, crop size and target pest. Low volume applications of Sunspray 6E Plus will require approximately the same amount of oil per acre as dilute sprays but will be applied with much less water. Spray oil calculations should be based on no runoff of the oil phase of the mixture.

## SPRAY DRIFT MANAGEMENT

A variety of factors including weather conditions (e.g., wind direction, wind speed, temperature, relative humidity) and method of application (e.g., ground, aerial, airblast) can influence pesticide drift. The applicator and grower must evaluate all factors and make appropriate adjustments when applying this product. Do not apply at wind speeds greater than 15 mph at the application site. Apply as a medium or coarser spray (ASABE standard 572), and the minimum volume mean diameter (VMD) for spinning atomizer nozzles. If applying at wind speeds less than 3 mph, the applicator must determine if a) conditions of temperature inversion exist, or b) stable atmospheric conditions exist at or below nozzle height. Do not make applications into areas of temperature inversions or stable atmospheric conditions.

**GROUND-BASED EQUIPMENT APPLICATION:** Apply using a nozzle height of no more than 4 feet above the ground or crop canopy.

**AIRBLAST EQUIPMENT APPLICATION:** For airblast applications, turn off outward pointing nozzles at row ends and when spraying outer row. To minimize spray loss over the top in orchard applications, spray must be directed into the canopy.

**AERIAL APPLICATIONS:** Use only as an emergency application when soil conditions do not permit regular ground application. Helicopter only. Apply quantity of product shown for each listed crop for control of listed insects in sufficient water to make a minimum of 20 gals. dilute spray solution per acre. For aerial applications of agricultural products, do not release spray at a height greater than 10 feet above the ground, top of crops, or above the orchard canopy. The boom length must not exceed 90% of the rotor blade diameter. When applications are made with a cross-wind, the swath will be displaced downwind. The applicator must compensate for this displacement at the downwind edge of the application area by adjusting the path of the aircraft upwind. Leave at least one swath unsprayed at the downwind edge of the treated field.

## TIMING THE TREATMENT

Applicator must determine the precise timing to fit local growth and climatic conditions. DO NOT EXCEED MAXIMUM RATES OR APPLY MORE OFTEN THAN INDICATED IN THIS BOOKLET. THIS PRODUCT MAYBE USED UP TO DAY OF HARVEST.

**TANK MIXES:** Sunspray 6E Plus may be mixed with other pesticides to improve the level of kill. Read and follow all directions and restrictions on the labels of the proposed tank-mix products. The combination of Sunspray 6E Plus with more than one additional pesticide is not recommended. Use caution and read all labels thoroughly when using any insecticides or miticides in combination with Sunspray 6E Plus. Always conduct a test spray for plant sensitivity before making a full-scale application

## **USE PRECAUTIONS**

Keep oil container tightly closed in storage to prevent entry of water. All horticultural oils interfere with or slow plant transpiration and respiration during the period of evaporation. Do not spray plants under stress (i.e. drought, disease). Do not apply during periods of prolonged high temperature combined with high relative humidity. Do not spray immediately prior to, during or following unusually cold weather or freezing temperatures. Due to the reduced respiration rate of the insect at temperatures below 50°F, the effectiveness of Sunspray 6E Plus is reduced. Do not tank-mix with any herbicides. Do not tank-mix with any insecticide or miticide whose label indicates that it should not be used with oil. Do not use with Sevin 50W formulation (carbaryl) on deciduous fruit trees.

The following list of pesticides represents some of the compounds that should not be used with Sunspray 6E Plus, however this list is not exhaustive: captan (Captan), cyprex (Dodine), chlorothalnil (Bravo), dimethoate (cygon), dinocap (Karathene), fentin hydroxide (Supertin), folpet (Folpet), methiocarb (Metmercapturon), propargite (Omite), lime sulfur, wettable sulfur or any other product containing sulfur. For fungicides not included in this listing, consult the label of the specific fungicide formulation for compatibility information when used with oil. Consult your local extension agent for local recommendations relative to a specific fungicide/oil mix on a specific crop. Keep spray equipment used for these other products separate from the equipment used for Sunspray 6E Plus or ensure all equipment is free of these residues. Do not use propargite (Omite) with or within 30 days before or after using Sunspray 6E Plus. Application safety during the bloom period should be determined for each individual species of plant to be treated by conducting a small test. Protect painted surfaces, carpet and furnishings from overspray. This product may cause discoloration of concrete, brick or stone walkways.

|        |                               | Application Rate |                 |               |                         |
|--------|-------------------------------|------------------|-----------------|---------------|-------------------------|
|        |                               | Dilute Spray:    |                 |               |                         |
|        |                               | Gals of product  |                 |               |                         |
|        |                               | in 100 gals      | Concentrate:    | Aerial: Gals  |                         |
|        |                               | water applied at | Gals of         | of product in |                         |
|        |                               | 100-600 gals     | product in 45   | 20 gals of    |                         |
|        |                               | dilute spray     | gals - 125 gals | water         |                         |
|        |                               | solution per     | of water per    | minimum per   | Time of Application     |
| Crop   | Pest                          | acre             | acre            | acre          | (Stage of Development)  |
| Apples | Aphid (eggs)                  | 2                | 6-8             | 6-8           | Dormant through Tight-  |
|        | Apple Red Bug                 |                  |                 |               | cluster                 |
|        | Mite (eggs) including         |                  |                 |               |                         |
|        | European Red Mite             |                  |                 |               |                         |
|        | Scales (Hard & Soft)          |                  |                 |               |                         |
|        | Scurfy Scale                  |                  |                 |               |                         |
|        | Fruit Tree Leaf Roller (eggs) |                  |                 |               |                         |
|        |                               |                  |                 |               |                         |
|        | Mites                         | 1                | 4               | 4             | Summer (Foliar or       |
|        | Scales                        | 1-2              | 4-6             | 4-6           | Cover) or Postharvest.  |
|        |                               |                  |                 |               | Do not apply over fruit |
|        |                               |                  |                 |               | after waxy bloom forms. |
|        |                               |                  |                 |               |                         |
| Pears  | European Red Mite (Eggs)      | 1-2              | 4-6             | 4-6           | Dormant or delayed      |
|        | Pear Leaf Blister Mite (eggs) | 2                | 4-6             | 4-6           | dormant (up to and      |
|        | Pear Psylla                   | 2                | 4-6             | 4-6           | including petal fall)   |
|        | Scales                        | 2                | 4-6             | 4-6           |                         |
|        | Fruit Tree Leaf Roller (Eggs) | 2                | 4-6             | 4-6           |                         |
|        |                               |                  |                 |               |                         |
|        |                               |                  |                 |               | a (= !!                 |
|        | Two-Spotted Spider Mite       | 1                | 4               | 4             | Summer (Foliar or       |
|        | Brown Mite                    | 1                | 4               | 4             | Cover) or Postharvest.  |
|        | Pear Rust Mite                | 1-2              | 4-6             | 4-6           |                         |
|        | Pear Leaf Blister Mite        | 1.5-2            | 4-6             | 4-6           |                         |
|        | Pear Psylla                   | 1.5-2            | 4-6             | 4-6           |                         |
|        | Thrips                        | 1.5-2            | 4-6             | 4-6           |                         |
| Figs   | Fig Scale                     | 3                |                 |               | Dormant or Delayed      |
|        |                               |                  |                 |               | Dormant                 |
|        | Mites                         | 2                |                 |               | Summer (Foliar or       |
|        | Mealybugs                     | ۷                |                 |               | Cover)                  |
|        | Scales                        |                  |                 |               |                         |
|        |                               |                  |                 |               |                         |

| 1 Gallon of Product/100 gals of water = 1 quart of product/25 gals of water = 32 Fluid ounces of product/25 gallons of w |  |  |  |  |  |
|--|--|--|--|--|--|
| 1 Quart = 0.95 liters. 1 gallon = 3.785 liters.  |  |  |  |  |  |

|                     |  | Ар  | plication Rate  |   |   |
|---------------------|--|---|---|---|---|
| Crop                | Pest   | Dilute Spray:<br>Gals of product<br>in 100 gals<br>water applied<br>at 100-500 gals<br>dilute spray<br>solution per<br>acre | Concentrate:<br>Gals of<br>product in<br>45 gals - 125<br>gals of water<br>per acre | Aerial: Gals<br>of product<br>in 20 gals<br>of water<br>minimum<br>per acre | Time of Application (Stage<br>of Development)   |
| Almonds<br>Apricots | Aphid (eggs)<br>Fruit Tree Leaf Roller (eggs)                              | 2<br>2  | 6-8<br>6-8  | 6-8<br>6-8  | Dormant or Delayed Dormant<br>Dormant or Delayed Dormant  |
| Cherries            | Tent Caterpillars<br>San Jose Scale  | 2<br>2  | 6-8<br>6-8  | 6-8<br>6-8  | Dormant or Delayed Dormant<br>Dormant   |
|                     | Mites and Scales   | 1-1.5   | 4-6   | 4-6   | Summer (Foliar or Cover) or<br>Postharvest.<br>-Application should not be<br>made over oil sensitive<br>varieties.<br>-Do not apply to trees lacking<br>adequate moisture.  |
| Peaches             | Aphid (eggs)   | 1-2   | 4-8   | 4-8   | Dormant or Delayed Dormant  |
| Nectarines          | Fruit Tree Leaf Roller (eggs)  | 1-2   | 4-8   | 4-8   | Dormant or Delayed Dormant  |
|                     | Mite (eggs)  | 1-2   | 4-8   | 4-8   | Dormant or Delayed Dormant<br>Dormant or Delayed Dormant  |
|                     | Peach Twig Borer (hibernaculae)  | 1-2   | 4-8   | 4-8   | Dormant or Delayed Dormant  |
|                     | Cottony Peach Scale  | 2   | 6 -8  | 4-8   | Dormant   |
|                     | San Jose Scale   | 2   | 6-8   | 4-8   | Dormant   |
|                     | Mites<br>Scales  | 1-2   | 4-6   | 4-6   | Summer (Foliar or Cover) or<br>Postharvest.   |
| Plums<br>Prunes     | Aphids (Eggs)<br>Scales<br>Mites (eggs)<br>Peach Twig Borer (hibernaculae) | 1.5-2   | 4-6   | 4-6   | Dormant or Delayed Dormant<br>to 1/2" green tip   |
|                     | Mites<br>Scales  | 1-1.5   | 4-6   | 4-6   | Summer (Foliar or Cover) or<br>Postharvest. Do not apply<br>over certain fresh market<br>fruits after bloom starts to<br>form as the oil spray will<br>remove the waxy bloom.<br>Application should not be<br>made over oil sensitive<br>varieties. |
| Pecans              | Aphids (Eggs)<br>Scales<br>Mites (eggs)                                    | 2   | 6-8   | 6-8   | Dormant   |
|                     | Aphids   | 1-1.5   | 4-6   | 4-6   | Summer (Foliar or Cover) or<br>Postharvest.   |

 1 Gallon of Product/100 gals of water = 1 quart of product/25 gals of water = 32 Fluid ounces of product/25 gallons of water.

 1 Quart = 0.95 liters. 1 gallon = 3.785 liters.

## Table 1C: Walnuts

|         |   |   | Application R  | ate   | ]  |
|---------|---|---|--|---|--|
| Сгор    | Pest                                    | Dilute Spray:<br>Gals of product<br>in 100 gals<br>water applied<br>at 200-400 gals<br>dilute spray<br>solution per<br>acre | Concentrate:<br>Gals of product<br>in 45 gals - 125<br>gals of water<br>per acre | Aerial: Gals of<br>product in 20 gals of<br>water minimum per<br>acre | Time of Application (Stage<br>of Development)  |
| Walnuts | Aphids (Eggs)<br>Scales<br>Mites (eggs) | 4-6   | NR   | NR  | Delayed Dormant - Use<br>only on trees that have not<br>suffered from lack of<br>moisture at any time<br>during the growing season.<br>Do not apply to orchards<br>where soil moisture is low.<br>Trees must have been fully<br>dormant. |
|         | Mites                                   | 4-6 gals of oil<br>in 100 gals of<br>water applied<br>at 200 gals of<br>spray solution<br>per acre.                         | NR   | NR  | Foliar - Late Spring to early<br>summer when the leaves<br>are fully expanded.   |

| 1 Gallon of Product/100 gals of water = 1 quart of product/25 gals of water = 32 Fluid ounces of product/25 gallons of water. |  |  |  |  |  |  |
|---|--|--|--|--|--|--|
| 1 Quart = 0.95 liters. 1 gallon = 3.785 liters.   |  |  |  |  |  |  |
| NR = Not Recommended  |  |  |  |  |  |  |

|   |   | Applicati   | on Rate   |   |
|---|---|---|---|---|
| Сгор  | Pest  | Dilute Spray:<br>Gals of product<br>in 100 gals water<br>applied at 500-<br>2000 gals dilute<br>spray solution<br>per acre (TX & FL<br>max 1500 gals<br>spray sol 'n per<br>acre) | Concentrate:<br>Gals of<br>product in 45<br>gals - 125 gals<br>of water per<br>acre | Time of Application (Stage of<br>Development)   |
| Lemons and<br>Grapefruit*   | Mites<br>Scales including<br>California Red Scale   | 1.0 - 1.4<br>1.0 - 1.6  | 8 - 24  | Spray during Fall, early Winter &<br>Spring months when red scale are<br>more easily controlled and trees<br>generally less reactive to oil. For<br>all citrus oil sprays ensure<br>adequate soil moisture: leaves<br>should not wilt before noon.  |
| Navel &<br>Valencia<br>Oranges, Other<br>Citrus Varieties<br>Including Non-<br>Bearing* | Mites including<br>Rust Mite<br>Spider Mite<br>Scales including<br>Black Scale<br>California Red Scale<br>Whitefly & Blackfly<br>Sooty Mold | 1.0 - 1.4<br>1.0 - 1.4<br>1.0 - 1.4<br>1.0 - 1.3<br>1.0 - 1.3<br>1.3 - 1.6<br>1.0 - 1.3<br>1.0 - 1.3  | 8 - 24  | For low volume oil spray<br>treatment during the Spring,<br>application should be<br>discontinued as soon as<br>temperatures go above 90F<br>during the day or relative<br>humidity is expected to go down<br>to 20 percent or below. Oils<br>should not be used in late Fall if<br>there is any danger of damage<br>from cold. The addition of a tank<br>mix insecticide registered for use<br>on these crops may improve<br>performance against scales. |

\* Citrus: Do not exceed a maximum of 159 pounds active ingredient (in a maximum volume of 1500 gallons of spray mix per acre) when treating citrus in Texas and Florida. Do not exceed a maximum of 212 pounds of active ingredient (in a maximum volume of 2000 gals of spray mix per acre) when treating citrus in California.

 1 Gallon of Product/100 gals of water = 1 quart of product/25 gals of water = 32 Fluid ounces of product/25 gallons of water.

 1 Quart = 0.95 liters. 1 gallon = 3.785 liters.

Table 3A: Shade Trees, Shrubs, Ornamentals, Flower and Foliage Plants

| Crop or Plant  | Pest  | Application Rate  | Time of Application      |
|--|---|---|--------------------------|
| Shade Trees* and<br>Shrubs including<br>Conifers, Deciduous<br>Broadleaf Evergreens<br>& Woody<br>Ornamentals  | Aphids  | Dilute Spray: 2-3<br>gals of product per<br>100 gals of water<br>applied at 100-500<br>gals spray solution<br>per acre. | Winter Dormant Period    |
| Ornamental Trees*<br>and Shrubs including:<br>Conifers, Deciduous<br>and Broadleaf<br>Evergreens located<br>along city streets,<br>other rights-of-ways<br>and in or around<br>habitable buildings | Adelgids<br>Eriophid Mites<br>Gall Mites<br>Honey Locust Plant Bug<br>Lace Bug<br>Leaf Beetle Larvae<br>Leafminer<br>Leafrollers<br>Mealybugs | Dilute Spray: 1-2<br>gals of product per<br>100 gals of water<br>applied at 100-500<br>gals spray solution<br>per acre. | Summer (Foliar or Cover) |
| Flowering and<br>Foliage Plants<br>including Roses and<br>other Flowering<br>Shrubs  | Psyllids (immature)<br>Sawfly (Larvae)<br>Scales (immature)<br>Spider Mites<br>Thrips<br>Webworms   | Dilute Spray: 2-3<br>gals of product per<br>100 gals of water<br>applied at 100-250<br>gals spray solution<br>per acre. | Winter Dormant Period    |
|  | Whiteflies  | Dilute Spray: 1-2<br>gals of product per<br>100 gals of water<br>applied at 100-250<br>gals spray solution<br>per acre. | Summer (Foliar or Cover) |
| Foliage Ornamentals<br>& Bedding Plants  |   | Dilute Spray: 2-3<br>gals of product per<br>100 gals of water<br>applied at 50-150<br>gals spray solution<br>per acre.  | Winter Dormant Period    |
|  |   | Dilute Spray: 1-2<br>gals of product per<br>100 gals of water<br>applied at 50-150<br>gals spray solution<br>per acre.  | Summer (Foliar or Cover) |

## Table 3B: Christmas Trees

| Crop or Plant    | Pest  | Application Rate   | Time of Application |
|------------------|---|--|---------------------|
| Christmas Trees* | Aphids<br>Adelgids<br>Scales (Soft & Hard) (Immature)<br>Spider Mites | Dilute Spray: 2-3 gals<br>of product per 100<br>gals of water applied<br>at 100-250 gals spray<br>solution per acre. | Winter              |
|                  |   | Dilute Spray: 1-2 gals<br>of product per 100<br>gals of water applied<br>at 100-250 gals spray<br>solution per acre. | Summer              |

## For Tables 3A and 3B

\* Oil removes the glaucous (blue) bloom from such evergreens as Colorado Blue Spruce and Koster Spruce. Always use lower dosage or test spray oil sensitive plants such as Cryptomeria, Smoke Tree, Chamaecypris, Juniper, Japanese Holly and Spruce. Tendency toward sensitivity: Red Cedar and Douglas Fir. Do not spray when buds have fully opened and shoot elongation is occurring. Do not spray Walnut foliage. **RESTRICTIONS:** Make no more than 4 spray applications per year. Allow at least 2 weeks to pass between consecutive spray applications. Supprav 6E Plus may be used in rotation with other compatible insecticides or

consecutive spray applications. Sunspray 6E Plus may be used in rotation with other compatible insecticides or fungicides. Do not spray when there is obvious moisture deficit in leaves, or the plant is under stress. Early morning applications are recommended. For Fall dormant applications, use no more than 2 gallons oil per 100 gallons water, and limit use only to: American Red Oak, Japanese Black Pine, Dogwood, Weeping Cherry, Cornelian Cherry, Crabapple, Norway Maple, Purple Leaf Plum.

## Powdery Mildew Control on Ornamentals:

Use 1-2 gallons Sunspray 6E Plus per 100 gallons water at 50-100 gals spray solution per acre from midsummer to early fall every 2-4 weeks to zinnia, lilac, azalea, monarda, phlox, helianthemum and aster. If application to other woody or herbaceous ornamental plants is desired, conduct a small scale test on specific plants that are to be treated to check for sensitivity to the oil treatment. Sunspray 6E Plus is not effective if the plant canopy is extremely dense because adequate coverage is difficult to attain. For greenhouse applications, use 1 gallon of product per 100 gallons of water at 50-100 gals spray solution per acre except for greenhouse-grown roses for the cut flower market where the concentration shall not exceed 0.5 gals Sunspray 6E Plus / 100 gals water at 50-100 gals spray solution per acre if applied weekly. A test spray should be conducted due to increased sensitivity of greenhouse grown plants

| 1 Gallon of Product/100 gals of water = 1 quart of pr | oduct/25 gals of water | = 32 Fluid ounces of product/ | 25 gallons of | f water. |
|---|------------------------|-------------------------------|---------------|----------|
| 1 Quart = 0.95 liters. 1 gallon = 3.785 liters.       |                        |                               |               |          |

| Crop         | Pest                             | Application Rate -Dilute Spray  | Time of Application     |
|--------------|----------------------------------|---|-------------------------|
|              | Aphids<br>Leafhopper             | 2 Gals of product in 100 gals of water applied at 100-250 gals of spray solution per acre.      | Dormant and postharvest |
| Caneberries  | Mites<br>Whitefly<br>Psyllids    | 1 Gal of product in 100 gals of water applied at 100-250 gals of spray solution per acre.       | Spring - Summer         |
| Cranberries  | Leafhopper<br>Scales<br>Mites    | 1-2 Gals of product in 100 gals of water applied<br>at 100-250 gals of spray solution per acre. | As needed               |
| Blueberries  | Scales                           | 3 Gals of product in 100 gals of water applied at 100-250 gals of spray solution per acre.      | Dormant                 |
| blueberries  | Thrips<br>Mites<br>Sawfly (Eggs) | 2 Gals of product in 100 gals of water applied at<br>100-250 gals of spray solution per acre.   | Foliage                 |
| Strawberries | Aphids<br>Mites                  | 1 Gal of product in 100 gals of water applied at<br>100-200 gals of spray solution per acre.    | Dormant and Foliage     |

|        |                | Applicati  | on Rate  |  |
|--------|----------------|--|--|--|
| Crop   | Pest           | Dilute Spray: Gals of<br>Product/100 gals of<br>water                              | Concentrate Spray<br>(45-100 Gals Spray<br>solution per Acre)* | Time of Application  |
| Grapes | Mealybugs      | 4-6 gals of product in<br>100 gals of water<br>applied at 200-300 gals<br>per acre | NR   | Dormant - A tank mix using<br>an insecticide improves<br>control.  |
|        | Mites          | 2 gals of product in 100<br>gals of water applied at<br>100 gals per acre.         | NR   | Bud Swell or shoot growth<br>of 5-7 cm (2-3 in) in Spring  |
|        | Mealybugs      | NR   | 4 gals of product in a<br>minimum of 45 gals<br>of water       | Spray when crawlers are<br>active and exposed usually<br>around early Summer.  |
|        | Leafhopper     | NR   | 4 gals of product in a<br>minimum of 45 gals<br>of water       | Spray during first brood, if<br>possible. Sprays after grap<br>are more than 1/4"<br>diameter may affect bloom   |
|        | Mites          | 2 gals of product in 100<br>gals of water applied at<br>100 gals per acre.         | NR   | Postharvest  |
|        | Powdery Mildew | 1 gal of product in 100<br>gals of water applied at<br>100 gals per acre.          | NR   | Begin application after buc<br>break or according to local<br>recommendations. Contine<br>spraying every 10 to 14 da<br>in rotation with other<br>compatible fungicides.<br>Frequent applications in<br>short spray intervals may<br>result in damage to plants. |

dicofol (kelthane), Captan, or sulfur since all can cause phytotoxicity in some varieties.

Avoid more than 4 consecutive spray. Some varieties of grapes may be sensitive to 4 or more consecutive sprays.

\*Air carrier or air-blast type sprayers are strongly recommended to avoid plant injury and reduce effect on bloom of table grapes.

NR = Not Recommended

| 1 Gallon of Product/100 gals of water = 1 quart of product/25 gals | of water = 32 Fluid our | nces of product/25 gallons of wa | er. |
|--|-------------------------|----------------------------------|-----|
| 1 Quart = 0.95 liters. 1 gallon = 3.785 liters.                    |                         |                                  |     |

| Table 5: Vegetables; | Outdoor and | Greenhouse |
|----------------------|-------------|------------|
|----------------------|-------------|------------|

|                                  |                             | Application Rate                                      |  |
|----------------------------------|-----------------------------|---|--|
| Crop                             | Pest                        | Dilute Spray: Gals of<br>Product/100 gals of<br>water | Time of Application  |
| Asparagus                        | Aphids                      | 1-2 gallons of  | Do not exceed 4 applications in a growing season. A 2-   |
| Beans                            | Mites                       | product per 100                                       | week application interval is recommended. Due to   |
| Beets                            | Beetle Larvae<br>Leafminers | gallons of water<br>applied at 50-100                 | varietal differences in response to a treatment of<br>Sunspray 6E Plus at the specific rate range, conduct a |
| Cabbage                          | Thrips                      | gallons of dilute                                     | small test on 1 or 2 plants of the specific variety to be  |
| Cauliflower and other cole crops | Leafhopper<br>Whitefly      | spray solution per                                    | treated.   |
| Celery                           | whiteny                     | acre  |  |
| Corn                             |                             |   |  |
| Cucurbits                        |                             |   |  |
| Eggplant                         |                             |   |  |
| Lettuce                          |                             |   |  |
| Melon                            |                             |   |  |
| Pepper                           |                             |   |  |
| Potato                           |                             |   |  |
| Radish                           |                             |   |  |
| Squash                           |                             |   |  |
| Sweet Potato                     |                             |   |  |
| Tomato                           |                             |   |  |
| Tobacco                          |                             |   |  |
|                                  |                             |   |  |
| Herbs and Spices                 |                             | 1-2 gallons of product                                |  |
| Basil                            |                             | per 100 gallons of<br>water applied at 50             |  |
| Lemon Balm                       |                             | gallons of dilute spray                               |  |
| Mexican Oregano                  |                             | solution per acre                                     |  |
| Spearmint                        |                             |   |  |

| Disease Control on Vegetables   |            |             |
|---|------------|-------------|
| Use 1-2 gallons of product in 100 gallons of water applied at 50 - 100 gallons of dilute spray solution per acre to control powdery mildew on cucurbits, melons and squash; gummy stem blight and Alternaria leaf blight on melons. Apply when the disease is first noticed and continue on a weekly basis to both the upper and lower leaf surfaces. If applying to other vegetables listed in Table 5, first conduct a small test spraying before treating the whole crop. Limit greenhouse applications to the rate of 1 gallon of product in 100 gallons of water applied at 50 - 100 gallons of dilute spray per acre. |            |             |
|   |            |             |
| 1 Gallon of Product/100 gals of water = 1 quart of product/25 gals of water = 32 Fluid ounces of product  | t/25 gallo | ons of wate |
| 1 Quart = 0.95 liters. 1 gallon = 3.785 liters.   |            |             |

## Table 6: Field Crops

| Сгор                 | Pest                       | Application Rate<br>Dilute Spray: Gals<br>of Product/100<br>gals of water | Time of Application                  |
|----------------------|----------------------------|---|--------------------------------------|
| Alfalfa              | Aphids                     | 1-2 gallons of<br>product in 100  | Do not exceed 4<br>applications in a |
| Corn (sweet & field) | Mites                      | gallons of water  | growing season. Space                |
| Cotton               | Leafminers<br>Corn Earworm | applied at 50 -100  | applications at                      |
| Peanuts              | Rootworm                   | dilute spray per  | intervals of approximately 2         |
| Soybeans             | Whitefly                   | acre  | weeks.                               |
| Sugar Beets          |                            |   |                                      |

 1 Gallon of Product/100 gals of water = 1 quart of product/25 gals of water = 32 Fluid ounces of product/25 gallons of water.

 1 Quart = 0.95 liters. 1 gallon = 3.785 liters.

## Table 7A: Greenhouse

| Crop or Plant                | Pest                 | Application Rate            | Specific Comments                   |
|------------------------------|----------------------|-----------------------------|-------------------------------------|
| Aglaonema                    | Aphids               | 1 -2 gallons of product in  | Due to varietal differences in      |
| Aster                        | Fungus Gnats         | 100 gallons of water        | response to a treatment of          |
| Azaleas                      | Leafminers           | applied at 100- 200         | Sunspray 6E Plus at the specified   |
| Begonias                     | Mealybugs            | gallons of spray solution   | rate or rate range, conduct a small |
| Browallia                    | Scales (Hard & Soft) | per acre.                   | test on 1-2 plants of the specific  |
| Camellias                    | Spider Mites         |                             | variety to be treated.              |
| Carnation                    | Thrips               |                             |                                     |
| Celosia                      | Whitefly             |                             |                                     |
| Chrysanthemum                |                      |                             |                                     |
| Coleus                       |                      |                             |                                     |
| Cosmos                       |                      |                             |                                     |
| Dusty Miller                 |                      |                             |                                     |
| Easter Lillies               |                      |                             |                                     |
| Gardenias                    |                      |                             |                                     |
| Geranium                     |                      |                             |                                     |
| Gerbera                      |                      |                             |                                     |
| Hellichrysum                 |                      |                             |                                     |
| Hibiscus Foliage             |                      |                             |                                     |
| Hydrangea                    |                      |                             |                                     |
| Impatiens                    |                      |                             |                                     |
| Jade Plant                   |                      |                             |                                     |
| Marigold                     |                      |                             |                                     |
| New Guinea Impatiens         |                      |                             |                                     |
| Nicotonia                    |                      |                             |                                     |
| Philodendron                 |                      |                             |                                     |
| Portulaca                    |                      |                             |                                     |
| Reiger Begonias              |                      |                             |                                     |
| Snapdragon                   |                      |                             |                                     |
| Vinca                        |                      |                             |                                     |
| Zinnias                      |                      |                             |                                     |
|                              |                      |                             |                                     |
| Ageratum                     |                      | 1 gallons of product in 100 |                                     |
| Crown of Thorns              |                      | gallons of water applied at |                                     |
| Dieffenbachia                | _                    | 100- 200 gallons of spray   |                                     |
| Ferns                        | _                    | solution per acre.          |                                     |
| Ficus                        | _                    |                             |                                     |
| Lisianthus                   | _                    |                             |                                     |
| Orchid                       | _                    |                             |                                     |
| Palms                        | _                    |                             |                                     |
| Petunia                      | 4                    |                             |                                     |
| Poinsettia                   | _                    |                             |                                     |
| Schefflera                   | _                    |                             |                                     |
| Sunflower                    | _                    |                             |                                     |
| Leaf Polish for hardy plants |                      |                             |                                     |

Some plants grown in greenhouses are more sensitive to oil treatments if any of the following conditions are present when application is made:

- High Humidity
- A heavy overcast or cloudy day or during rainy periods
- Inadequate air flow
- Intense sun and/or heat build-up that stresses plant
- Night time
- Plants under water or temperature stress

Frequency of Application: For the greenhouse pests listed, use once a week initially, then as the pest is controlled, decrease the frequency to every 2-3 weeks as needed.

Application safety during bloom period should be determined for each individual species of plant to be treated by conducting a small test.

## Table 7B: Interiorscapes

| Crop or Plant | Pest                | Application Rate  | Specific Comments   |
|---------------|---------------------|---|---|
| Dieffenbachia | Aphids              | 1 Gal of product per 100 gallons of   | Do not apply to plants in direct sunlight   |
| Dracaena      | Leafminers          | water applied at 100-200 gallons spray solution per acre                    | behind glass. Due to varietal differences<br>in response to a treatment of Sunspray |
| Ferns         | Mealybugs<br>Scales |   | 6E Plus at the specified rate or rate   |
| Palms         | Spider Mites        |   | range, conduct a small test on 1 or 2 plants of the specific variety to be          |
| Schefflera    | Whitefly            |   | treated.  |
| Chrysanthemum |                     |   |   |
| Gardenias     |                     |   |   |
| Jade Plant    |                     | 1 -2 Gals of product per 100 gallons<br>of water applied at 100-200 gallons |   |
| Philodendron  |                     | spray solution per acre   |   |

| * Protect floor, floor coverings and furnishings from overspray   |  |  |  |  |
|---|--|--|--|--|
|   |  |  |  |  |
| 1 Gallon of Product/100 gals of water = 1 quart of product/25 gals of water = 32 Fluid ounces of product/25 gallons of water. |  |  |  |  |
| 1 Quart = 0.95 liters. 1 gallon = 3.785 liters.   |  |  |  |  |

## Table 8

| Crop                   | Pest   | Application Rate  | Time of Application  |
|------------------------|--|---|--|
| Olives                 | Scales   | Dilute Spray: 1.5 Gals of product<br>in 100 gals water applied at 400-<br>800 gals dilute spray solution per<br>acre      | Post bloom through August and Postharvest  |
| Bananas<br>Plantains   | Yellow Sigatoka Disease                            | Dilute Spray: 1.0 -1.5 Gals of<br>product in 100 gals water applied<br>at 100 gals dilute spray solution<br>per acre      | This application is also effective in<br>loosening sooty mold fungus and<br>limiting its formation by the control<br>of Aphids, Mealybugs, Scales and<br>Whitefly. |
| Avocado<br>(Haas Only) | Aphids<br>Mealybugs<br>Mites<br>Scales<br>Whitefly | Dilute Spray: 1 - 1.5 Gals of<br>product in 100 gals water applied<br>at 100 - 400 gals dilute spray<br>solution per acre | Apply through late fall  |
| Mangos                 | Aphids<br>Mealybugs<br>Mites<br>Scales<br>Whitefly | Dilute Spray: 1 - 1.5 Gals of<br>product in 100 gals water applied<br>at 100 gals dilute spray solution<br>per acre       | Before bloom   |
| Persimmons             | Leafrollers<br>Scales<br>Book Lice (pscocids)      | Dilute Spray: 1 Gal of product in<br>100 gals water applied at 100 gals<br>dilute spray solution per acre                 |  |

 1 Gallon of Product/100 gals of water = 1 quart of product/25 gals of water = 32 Fluid ounces of product/25 gallons of water.

 1 Quart = 0.95 liters. 1 gallon = 3.785 liters.

## STORAGE AND DISPOSAL

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

**Pesticide Storage:** Store in a cool, dry, locked area. Keep this product in a tightly closed container when not in use.

**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: Rigid, nonrefillable plastic or metal containers equal to or less than 5 gallons:** Nonrefillable container. Do not reuse or refill the 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 1/4 full with water and recap. Shake 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. **Rigid, nonrefillable plastic or metal containers greater than 5 gallons:** Nonrefillable container. Do not reuse or refill this container. Triple rinse (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 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.

For Plastic containers greater than, equal to or less than 5 gallons: Offer for recycling. If recycling is not available, puncture and dispose of container in a sanitary landfill or by incineration.

**For Metal containers greater than, equal to or less than 5 gallons:** Offer for recycling. If recycling is not available, puncture and dispose of container in a sanitary landfill, or by other procedures approved by State and Local authorities.

## LIMITED WARRANTY AND LIABILITY

This product conforms to the description and is suitable for the uses set forth on this label but is strictly limited to those uses solely as directed under the specified label conditions, and only if purchased in the original unopened container. TO THE EXTENT CONSISTENT WITH APPLICABLE LAWS, MANUFACTURER AND SELLER DISCLAIM ANY AND ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE (except as specified on this label). Buyer and all users shall assume all risk, liability and damage if this product is used, stored, handled or applied other than as specifically set forth on this label. TO THE EXTENT CONSISTENT WITH APPLICABLE LAWS, LIABILITY OF MANUFACTURER AND SELLER AND USER'S REMEDIES SHALL BE LIMITED TO REFUND OF THE PURCHASE PRICE OR REPLACEMENT OF THE SPECIFIC QUANTITY INVOLVED. TO THE EXTENT CONSISTENT WITH APPLICABLE LAWS, IN NO EVENT SHALL MANUFACTURER OR SELLER BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES.

Note: This pesticide is to be sold only in this original unopened container.

## Sublabel B

For Mosquito Larvicide Use

# SUNSPRAY® MLO

| Active Ingredient:<br>Mineral Oil*   |                                  |
|--|----------------------------------|
| Other Ingredients  |                                  |
| Total  | 100.0%                           |
| *Unsulfonated Residue of Mineral Oil<br>*50% Distillation Point of Mineral Oil<br>*10%-90% Distillation Range of Mineral Oil<br>*Flash Point<br>Weight per Gallon<br>*Contains petroleum distillates | 414.0°F<br>65.0°F Max<br>345.0°F |

## KEEP OUT OF REACH OF CHILDREN CAUTION

See Additional Precautionary Statements Inside Booklet. See Directions for Use inside Booklet.

EPA Reg. No. 86330-11 EPA Est. No. 86330-OK-1 NET CONTENTS: \_\_\_\_\_ Batch/Lot Number: \_\_\_\_\_

## Produced For:

HollyFrontier Refining & Marketing LLC 401 Plymouth Road Suite 350 Plymouth Meeting, PA 19462

## PRECAUTIONARY STATEMENTS

## Hazards to Humans & Domestic Animals.

**CAUTION:** Harmful if swallowed or absorbed through skin. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

## **FIRST AID**

## If on skin or clothing:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

## If swallowed:

- Immediately call a poison control center or doctor.
- DO NOT INDUCE VOMITING unless told to do so by a poison control center or doctor.
- Do not give **any** liquid to the person.
- Do not give anything by mouth to an unconscious person.

## If in eyes:

- 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.
- Call a poison control center or doctor for treatment advice.

## If inhaled:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-tomouth, if possible.
- Call a poison control center or doctor for further treatment advice.

## HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or when going for treatment. You may also call 1-918-594-6000 for emergency medical treatment information 24/7.

## NOTE TO PHYSICIAN

Contains petroleum distillates - vomiting may cause aspiration pneumonia. Aspiration may occur after swallowing or vomiting and results in serious, and sometimes delayed, lung injury.

## PERSONAL PROTECTIVE EQUIPMENT (PPE)

## Mixers, loaders, applicators, flaggers, and other handlers must wear:

- long-sleeve shirt and long pants,
- shoes plus socks,

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent material that have been drenched or heavily contaminated with the product's concentrate. Do not reuse them.

## ENGINEERING CONTROLS FOR AERIAL APPLICATIONS

**Engineering Controls:** Pilots must use an enclosed cockpit that meets the requirements listed in the WPS for agricultural pesticides [40 CFR 170.240(d) (6)].

## USER SAFETY RECOMMENDATIONS

Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

## **ENVIRONMENTAL HAZARDS**

Do not apply directly to water, except as directed for use on this label. Aquatic organisms may be killed in waters where this pesticide is used. Consult with the State agency with primary responsibility for regulating pesticides before applying to public waters to determine if a permit is needed. Do not contaminate water when disposing of equipment washwater or rinsate. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas.

## **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 through any type of irrigation system. Do not apply this product in a way that will contact adults, children, or pets, either directly or through drift. Do not allow adults, children, or pets to enter treated areas until sprays have dried. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

This product may be applied to the water surface in swamps, marshes, intermittently flooded areas, drainage areas, storm sewer catch basins, waste treatment facilities, settling ponds, ditches, log ponds, temporary rain pools, stagnant water pools, abandoned swimming pools, fountains, and ponds to control mosquito larvae and pupae.

## **USE RESTRICTIONS**

Do not mix this product with water prior to application or use it if it has been inadvertently mixed with water (milky appearance). Do not apply this product under high pressure or at high velocity.

## SPRAY DRIFT MANAGEMENT

A variety of factors including weather conditions (e.g., wind direction, wind speed, temperature, relative humidity) and method of application (e.g., ground, aerial, airblast) can influence pesticide drift. The applicator and grower must evaluate all factors and make appropriate adjustments when applying this product. Do not apply at wind speeds greater than 15 mph at the application site. Apply as a medium or coarser spray (ASABE standard 572), and the minimum volume mean diameter (VMD) for spinning atomizer nozzles. If applying at wind speeds less than 3 mph, the applicator must determine if a) conditions of temperature inversion exist, or b) stable atmospheric conditions exist at or below nozzle height. Do not make applications into areas of temperature inversions or stable atmospheric conditions.

**GROUND-BASED EQUIPMENT APPLICATION:** Apply using a nozzle height of no more than 4 feet above the ground or crop canopy.

**AIRBLAST EQUIPMENT APPLICATION:** For airblast applications, turn off outward pointing nozzles at row ends and when spraying outer row.

**AERIAL APPLICATIONS:** For aerial applications, do not release spray at a height greater than 10 feet above the ground, water surface or the top of plants to be sprayed. The boom length must not exceed 90% of the rotor blade diameter. When applications are made with a cross-wind, the swath will be displaced downward. The applicator must compensate for this displacement at the downwind edge of the application area by adjusting the path of the aircraft upwind. Leave at least one swath unsprayed at the downwind edge of the treated field.

## **APPLICATION INSTRUCTIONS**

Equipment used to apply other materials should be cleaned by rinsing first with diesel fuel or fuel oil, then with this larvicide. Because mosquitos can hatch within 5-7 days of warm weather after egg deposition, stagnant water expected to be exposed for such a period of time should be treated.

## **Ground Application:**

(Hand gun or Hand Wand Sprayer). Apply this product at rates of one (1) to five (5) gallons per acre (3 to 15 fl oz per 1,000 sq. ft.) depending on water surface conditions and vegetative density. Use 1 to 2.5 gallons per acre (3 to 7.5 fl oz per 1,000 sq ft) if trees are in green tip stage, vegetative cover is light, and water is relatively clean. To penetrate heavier or denser vegetative cover or if water is substantially polluted use 2.5 to 5 gallons per acre (7.5 to 15 fl oz per 1000 sq ft). An average rate of 2.5 to 3 gallons per acre (approximately 1 quart to 5,000 sq ft - a 50'-x-100' area, 7.5 to 9 fl oz per 1,000 sq ft or 2 to 4 teaspoons per 100 sq ft – a 10'-x-10' area) of water surface covers most conditions.

## **Aerial Application:**

Apply this product at rates of two (2) to four (4) gallons per acre for salt marshes and swamps. Within these limits adjust application rate according to surface conditions. An average rate of 3 gallons per acre (36 gallons per 100 ft swath mile) covers most conditions. Apply product to leave a thin film over the surface of mosquito breeding areas. Include ground-based treatments of drainage ditches, catch basins, stagnant pools, and open sewage basins to improve overall control. As high pressures and high velocities are not needed for these applications, relatively light equipment can be used.

## MODE OF ACTION

This product leaves a thin surface film over water in mosquito breeding areas and kills by suffocation. Consequently, mosquitoes do not develop resistance.

## STORAGE AND DISPOSAL

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

**Pesticide Storage:** Store in a cool, dry, locked area. Keep this product in a tightly closed container when not in use.

**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: Rigid, nonrefillable plastic or metal containers equal to or less than 5 gallons:** Nonrefillable container. Do not reuse or refill the 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 1/4 full with water and recap. Shake 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. **Rigid, nonrefillable plastic or metal containers greater than 5 gallons:** 

Nonrefillable 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. Fill the container 1/4 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. Turn the container or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

For Plastic containers greater than, equal to or less than 5 gallons: Offer for recycling. If recycling is not available, puncture and dispose of container in a sanitary landfill or by incineration.

For Metal containers greater than, equal to or less than 5 gallons: Offer for recycling. If recycling is not available, puncture and dispose of container in a sanitary landfill, or by other procedures approved by State and Local authorities.

## LIMITED WARRANTY AND LIABILITY

This product conforms to the description and is suitable for the uses set forth on this label but is strictly limited to those uses solely as directed under the specified label conditions, and only if purchased in the original unopened container. TO THE EXTENT CONSISTENT WITH APPLICABLE LAWS, MANUFACTURER AND SELLER DISCLAIM ANY AND ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE (except as specified on this label). Buyer and all users shall assume all risk, liability and damage if this product is used, stored, handled or applied other than as specifically set forth on this label. TO THE EXTENT CONSISTENT WITH APPLICABLE LAWS, LIABILITY OF MANUFACTURER AND SELLER AND USER'S REMEDIES SHALL BE LIMITED TO REFUND OF THE PURCHASE PRICE OR REPLACEMENT OF THE SPECIFIC QUANTITY INVOLVED. TO THE EXTENT CONSISTENT WITH APPLICABLE LAWS, IN NO EVENT SHALL MANUFACTURER OR SELLER BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES.

Note: This pesticide is to be sold only in this original unopened container.