

RES Horticultural Oil

SUPPLEMENTAL LABEL TO ADD USE ON LISTED FRUIT, NUT, AND VEGETABLE CROPS

This supplemental label expires on May 31, 2024 and must not be used after this date

Active Ingredient:

Mineral Oil*98.8%

Other Ingredients:1.2%

Total100.0%

**Contains petroleum distillates*

*Unulfonated Residue of Petroleum Distillate92.0% Min

*50% Distillation Point of Petroleum Distillate414.0°F

*Flash Point345.0°F

Weight per Gallon.....7.1 lbs

EPA Reg. No. 74779-9

KEEP OUT OF REACH OF CHILDREN CAUTION

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read the label affixed to the container for RES Horticultural Oil before applying.

This labeling must be in possession of the user at the time of application.

Use of RES Horticultural Oil according to this labeling is subject to the use precautions and limitations imposed by the label affixed to the container for RES Horticultural Oil.

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.

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 this product 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 this product, however, this list is not exhaustive: captan (Captan), cyprax (Dodine), chlorothalonil (Bravo), dimethoate (cygon), folpet (Folpet), 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 this product, or ensure all equipment is free of these residues. Do not use propargite (Omite) with or within 30 days before or after using this product. 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.

SUPPLEMENTAL LABELING

Table 1A

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

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 1B

Crop	Pest	Application Rate			Time of Application (Stage of Development)
		Dilute Spray: Gals of product in 100 gals water applied at 100-500 gals dilute spray solution per acre.	Concentrate: Gals of product in 45 gals – 125 gals of water per acre.	Aerial: Gals of product in 20 gals of water minimum per acre.	
Almonds Apricots Cherries	Aphid (eggs) Fruit Tree Leaf Roller (eggs) Tent Caterpillars San Jose Scale	2 2 2 2	6-8 6-8 6-8 6-8	6-8 6-8 6-8 6-8	Dormant or Delayed Dormant Dormant or Delayed Dormant Dormant or Delayed Dormant Dormant
	Mites and Scales	1-1.5	4-6	4-6	Summer (Foliar or Cover) or Postharvest. Application should not be made over oil sensitive varieties. Do not apply to trees lacking adequate moisture.
Peaches Nectarines	Aphid (eggs) Fruit Tree Leaf Roller (eggs) Mite (eggs) Peach Twig Borer (hibernaculae) Cottony Peach Scale San Jose Scale	1-2 1-2 1-2 1-2 2 2	4-8 4-8 4-8 4-8 6-8 6-8	4-8 4-8 4-8 4-8 4-8 4-8	Dormant or Delayed Dormant Dormant or Delayed Dormant Dormant or Delayed Dormant Dormant or Delayed Dormant Dormant Dormant
	Mites Scales	1-2	4-6	4-6	Summer (Foliar or Cover) or Postharvest
Plums Prunes	Aphids (eggs) Scales Mites (eggs) Peach Twig Borer (hibernaculae)	1.5-2	4-6	4-6	Dormant or Delayed Dormant to ½" green tip
	Mites Scales	1-1.5	4-6	4-6	Summer (Foliar or Cover) or Postharvest. Application should not be made over oil sensitive varieties. Do not apply over certain fresh market fruits after bloom starts to form as the oil spray will remove the waxy bloom.

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Pecans	Aphids (eggs) Scales Mites (eggs)	2	6-8	6-8	Dormant
	Aphids Mites	1-1.5	4-6	4-6	Summer (Foliar or Cover) or Postharvest

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Table 1C: Walnuts

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

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 NR = Not Recommended

Table 2

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

***RESTRICTIONS:** Citrus: The maximum application rate for citrus in Texas and Florida is 159 pounds active ingredient per acre (maximum 1500 gallons of spray mix per acre), and in California, 212 pounds of active ingredient per acre (maximum 2000 gals of spray mix per acre).

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Table 3A: Small Fruits

Crop	Pest	Application Rate – Dilute Spray	Time of Application
Caneberries	Aphids Leafhopper Mites Whitefly Psyllids	2 Gals of product in 100 gals of water applied at 100-250 gals of spray solution per acre.	Dormant and Postharvest

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		1 Gal of product in 100 gals of water applied at 100-250 gals of spray solution per acre.	Spring-Summer
Cranberries	Leafhopper Scales Mites	1-2 Gals of product in 100 gals of water applied 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
	Thrips Mites Sawfly (eggs)	2 Gals of product in 100 gals of water applied at 100-250 gals of spray solution per acre.	Foliage
Strawberries	Aphids Mites	1 Gal of product in 100 gals of water applied at 100-200 gals of spray solution per acre.	Dormant and Foliage

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Table 3B: Grapes

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

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NR = Not Recommended

Table 4: Vegetables: Outdoor and Greenhouse

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

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Spearmint			
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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.

This product applied to potatoes via aerial application at a rate of 0.75 gal – 1.0 gal in 5-10 gallons of water per acre, reduces the spread of Potato Y Virus vectored by aphids.

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Table 5

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

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Manufactured For:

Rainbow Treecare Scientific Advancements

D/B/A Rainbow Ecoscience

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