

LESCO®

Horticultural Oil Plus

A horticultural spray oil for insect and mite pest management.

Active Ingredient

Mineral Oil.....98.8%

Other Ingredients.....1.2%

Total.....100.0%

*Unulfonated 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

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

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-to-mouth, 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 CHEMTREC 1-800-424-9300 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.

Doc ID
552393

ACCEPTED
FOR REGISTRATION

July 24, 2017

New York State Department
of Environmental Conservation
Division of Materials Management
Pesticide Product Registration

#000000

NET CONTENTS: 2.5 gal (9.46 L)
NET WEIGHT: 30.7 lb (13.92 kg)



Distributed by LESCO, Inc., 1385 East 36th Street, Cleveland, OH 44114-4114

PERSONAL PROTECTIVE EQUIPMENT (PPE)

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

- long-sleeve shirt and long pants,
- shoes plus socks,
- chemical-resistant gloves made of Barrier Laminate or Viton \geq 14 mils.

See engineering controls for additional requirements.

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 Barrier Laminate or Viton \geq 14 mils.

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.
2. 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 pesticides being added are emulsifiable formulations, add them after the oil and water has been thoroughly mixed.
3. 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 for smaller trees. For mature citrus trees this can be as much as 800-2000 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 LESCO® Horticultural Oil 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: LESCO® Horticultural Oil 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 LESCO® Horticultural Oil 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 LESCO® Horticultural Oil 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 LESCO® Horticultural Oil 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 LESCO® Horticultural Oil 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 LESCO® Horticultural Oil Plus or ensure all equipment is free of these residues. Do not use propargite (Omite) with or within 30 days before or after using LESCO® Horticultural Oil 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.

Table 1A

		Application Rate			
Crop	Pest	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	Time of Application (Stage of Development)
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	Aphid (eggs)	2	6-8	6-8	Dormant or Delayed Dormant
Apricots	Fruit Tree Leaf Roller (eggs)	2	6-8	6-8	Dormant or Delayed Dormant
Cherries	Tent Caterpillars	2	6-8	6-8	Dormant or Delayed Dormant
	San Jose Scale	2	6-8	6-8	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	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
	Peach Twig Borer (hibernaculae)	1-2	4-8	4-8	Dormant or Delayed Dormant
	Cottony Peach Scale	2	6-8	4-8	Dormant or Delayed Dormant
	San Jose Scale	2	6-8	4-8	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 1/2" green tip
	Mites Scales	1-1.5	4-6	4-6	Summer (Foliar or Cover) or Postharvest. Do not apply over certain fresh market fruits after bloom starts to form as the oil spray will remove the waxy bloom. Application should not be made over oil sensitive varieties.
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

		Application Rate			Time of Application (Stage of Development)
Crop	Pest	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	Aphid (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.

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

Table 2: Citrus

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 (TX & FL max 1500 gals spray solution per acre)	Concentrate: Gals of product in 45 gals – 125 gals of water per acre	
Lemons and 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 are less reactive to oil. For all citrus oil sprays ensure adequate soil moisture: leaves should not wilt before noon.
Navel & Valencia Oranges, Other Citrus 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 90F 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.

* 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.

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

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

Table 3B: Christmas Trees

Crop or Plant	Pest	Application Rate	Time of Application
Christmas Trees*	Aphids Adelgids Scales (Soft & Hard) (Immature) Spider Mites	Dilute Spray: 2-3 gals of product per 100 gals of water applied at 100-250 gals spray solution per acre.	Winter
		Dilute Spray: 1-2 gals of product per 100 gals of water applied at 100-250 gals spray 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, Chamaecyparis, 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. LESCO® Horticultural Oil 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 LESCO® Horticultural Oil 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. LESCO® Horticultural Oil 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 LESCO® Horticultural Oil 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

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TABLE 4A: Small Fruits

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

Table 4B: Grapes

Application Rate				
Crop	Pest	Dilute Spray: Gals of Product/100 gals of water	Concentrate Spray (45-100 Gals Spray solution per Acre)*	Time of Application
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.

Apply before mites reach high populations. Vineyard should be vigorous and supplied with ample water prior to application. Do not allow excessive webbing or burning. No sensitivity to LESCO[®] Horticultural Oil Plus treatments has been seen in the vineyards of cabernet, merlot, chardonnay or ribier when used for insect control. Do not mix LESCO[®] Horticultural Oil Plus with dicofol (kelthane), Captan, or sulfur since all can cause phytotoxicity in some varieties.

Avoid more than 4 consecutive sprays. 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

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Table 5: Vegetables; Outdoor and Greenhouse

Crop	Pest	Application Rate	Time of Application
		Dilute Spray: Gals of Product/100 gals of water	
Asparagus	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 LESCO® Horticultural Oil Plus at the specific rate range, conduct a small test on 1 or 2 plants of the specific variety to be treated.
Beans			
Beets			
Cabbage			
Cauliflower and other cole crops			
Celery			
Corn			
Cucurbits			
Eggplant			
Lettuce			
Melon			
Pepper			
Potato			
Radish			
Squash			
Sweet Potato			
Tomato			
Tobacco			
Herbs and Spices		1-2 gallons of product per 100 gallons of water applied at 50 gallons of dilute spray solution per acre	
Basil			
Lemon Balm			
Mexican Oregano			
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.

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Table 6: Field Crops

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

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Table 7A: Greenhouse

Crop or Plant	Pest	Application Rate	Specific Comments
Aglaonema	Aphids	1-2 gallons of product in 100 gallons of water applied at 100- 200 gallons of spray solution per acre.	Due to varietal differences in response to a treatment of LESCO Horticultural Oil Plus at the specified rate or rate range, conduct a small test on 1-2 plants of the specific variety to be treated.
Aster	Fungus Gnats		
Azaleas	Leafminers		
Begonias	Mealybugs		
Browallia	Scales (Hard & Soft)		
Camellias	Spider Mites		
Carnation	Thrips		
Celosia	Whitefly		
Chrysanthemum			
Coleus			
Cosmos			
Dusty Miller			
Easter Lillies			
Gardenias			
Geranium			
Gerbera			
Helichrysum			
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 gallons of water applied at 100- 200 gallons of spray solution per acre.	
Crown of Thorns			
Dieffenbachia			
Ferns			
Ficus			
Lisianthus			
Orchid			
Palms			
Petunia			
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	SpecificComments
Dieffenbachia Dracaena Ferns Palms Schefflera	Aphids Leafminers Mealybugs Scales Spider Mites Whitefly	1 Gal of product per 100 gallons of water applied at 100-200 gallons spray solution per acre	Do not apply to plants in direct sunlight behind glass. Due to varietal differences in response to a treatment of LESCO [®] Horticultural Oil Plus at the specified rate or rate range, conduct a small test on 1 or 2 plants of the specific variety to be treated.
Chrysanthemum Gardenias Jade Plant Philodendron		1 - 2 Gals of product per 100 gallons of water applied at 100-200 gallons 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 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 (psocoids)	Dilute Spray: 1 Gal of product in 100 gals water applied at 100 gals 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.

CONDITION OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully and completely. It is impossible to eliminate all risks inherently associated with the use of this product. To the extent consistent with applicable law, Buyer and/or User assume all risks of ineffectiveness or other unintended consequences or damages that may result from conditions outside or beyond the control of LESCO, Inc. including but not limited to, such factors as manner of use or application, weather or weather conditions outside the range considered normal at the application site or for the time period in which the product is applied, the presence of other materials, incompatible products, or other influencing factors which are beyond the control of LESCO, Inc.. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and/or User, and Buyer and/or User agrees to hold LESCO, Inc. harmless for any claims relating to such factors.

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NOTE: This pesticide is to be sold only in the original unopened container.

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EPA Est # 44956-AL-001

NET CONTENTS: 2.5 gal (9.46 L)
NET WEIGHT: 30.7 lb (13.92 kg)

Manufactured for LESCO, Inc., 1385 East 36th Street, Cleveland, OH 44114-4114

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