



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

August 11, 2023

Nancy Wright
Product Development Specialist
HollyFrontier Refining and Marketing LLC
401 Plymouth Road, Suite 350
Plymouth Meeting, PA 19462

Subject: Registration Review Label Mitigation for Aliphatic Solvents
Product Name: SUNSPRAY 6E WESTERN
EPA Registration Number: 86330-15
Application Date: 5/24/2020
Decision Number: 563306

Dear Nancy Wright:

The Agency, in accordance with the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, has completed reviewing all the information submitted with your application to support the Registration Review of the above referenced product in connection with the Aliphatic Solvents Interim Decision, and has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

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 Assurance.

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 12 months from the date of this letter. After 12 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently

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approved labeling. “To distribute or sell” is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

If you have any questions about this letter, please contact Quinn Gavin at gavin.quinn@epa.gov.

Sincerely,

A handwritten signature in blue ink, appearing to read "Linda Arrington", with a long horizontal flourish extending to the right.

Linda Arrington, Branch Chief
Risk Management and Implementation Branch 4
Pesticide Re-Evaluation Division
Office of Pesticide Programs

Enclosure

SUNSPRAY® 6E Western

{Marketing Statement} A Superior horticultural spray oil for western agriculture.

Active Ingredient:

Mineral Oil*.....98.8 wt%

Other Ingredient:

Emulsifier.....1.2 wt%

Total.....100.0 wt%

*Unulfonated Residue of Mineral Oil.....92.0% min

*50% Distillation Point of Mineral Oil.....415.0°F

*Flash Point.....345.0°F

Weight per Gallon.....7.1 lbs

**Contains petroleum distillates*

KEEP OUT OF REACH OF CHILDREN CAUTION

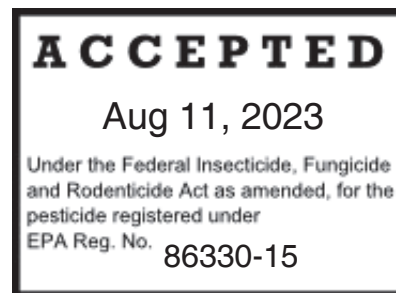
Si usted no entienda la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand the label, find someone to explain it to you in detail).

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

EPA Reg. No. 86330-15
EPA Est. No. 86330-OK-1
NET CONTENTS: 55 Gallons
Batch/Lot Number: _____

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

#15 SS5304 102810 (052420 111020 ID and Updated)



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KEEP OUT OF REACH OF CHILDREN

CAUTION

**Si usted no entienda la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand the label, find someone to explain it to you in detail).**

FIRST AID
<p>If on skin or clothing:</p> <ul style="list-style-type: none"> • 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.
<p>If swallowed:</p> <ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice • 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.
<p>If in eyes:</p> <ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
<p>If inhaled:</p> <ul style="list-style-type: none"> • 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.
<p>HOT LINE NUMBER</p> <p>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, or a poison control center at 1-800-222-1222.</p>
<p>NOTE TO PHYSICIAN</p> <p>Contains petroleum distillates. Vomiting may cause aspiration pneumonia. Aspiration may occur after swallowing or vomiting and results in serious, and sometimes delayed, lung injury.</p>

PRECAUTIONARY STATEMENTS

Hazards to Humans & Domestic Animals.

CAUTION: Harmful if absorbed through skin, swallowed or inhaled. Avoid contact with eyes, skin, or clothing. Avoid breathing spray mist. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

FIRST AID
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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, Nitrile Rubber \geq 14 mils, Neoprene Rubber \geq 14 mils or Viton \geq 14 mils.

User Safety 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.

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.

Engineering Control Statement: When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

ENVIRONMENTAL HAZARDS

This product is toxic to aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash water or rinsate. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Avoid drift or run off into storm drains, drainage ditches, or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to maximize the chances that wind, or rain will not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems.

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. Do not apply this product in a way that will contact adults, children or pets, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 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 plants, soil or water, is: coveralls, shoes plus socks, and chemical-resistant gloves made of any waterproof material, such as Barrier Laminate, Nitrile Rubber \geq 14 mils, Neoprene Rubber \geq 14 mils 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 produce agricultural plants on farms, forests, nurseries, or greenhouses. Do not enter or allow others to enter until sprays have dried.

USE RESTRICTIONS

This product may be used to control mite and insect pests on deciduous fruit, nut and vine crops including almonds, apples, apricots, avocado, cherries, figs, grapes, kiwifruit, nectarines, olives, pears, peaches, persimmons, plums, prunes, walnuts and citrus. This product may also be applied to corn and sugar beets. **Do not use this product in Landscape Areas, Greenhouses or Nursery Production Areas.**

PESTS CONTROLLED

This product controls mite and insect pests in the egg stage including; spider and eriophyid mites, armored and soft scales, mealybugs, psyllids, aphids, leafrollers and leafhoppers. This product also kills other immature forms if spray covers the insect. 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 pesticide to be added is an emulsifiable formulation, do so 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 solution.
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.

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. Spray only when the temperature is above 40°F and there is no danger of freezing.

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 300-600 gallons per acre or as low as 100 gallons per acre for smaller trees. For mature citrus trees this can be as much as 600-2000 gallons per acre, depending on the tree size. For avocado trees this can be as much as 700-1800 gallons per acre. Dilute applications ensure the best coverage.

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 per acre) sprays. 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 mph to 4 mph is recommended depending on crop, crop size and target pest. Low volume applications of Sunspray will require approximately the same amount of oil per acre as dilute sprays but will be applied with much less water. Base spray oil calculations on no runoff of the oil phase of the mixture.

SPRAY DRIFT ADVISORIES

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT. BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

IMPORTANCE OF DROPLET SIZE

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

CONTROLLING DROPLET SIZE - Ground Boom

- Volume - Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.
- Pressure - Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.
- Spray Nozzle - Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

BOOM HEIGHT - Ground Boom

- For ground equipment, the boom should remain level with the crop and have minimal bounce.
- For ground-based equipment - Apply using a nozzle height of no more than 4 feet above the ground or crop canopy. 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.

SHIELDED SPRAYERS

- Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

CONTROLLING DROPLET SIZE - Aircraft

- Adjust Nozzles - Follow nozzle manufacturer recommendations for setting up nozzles. Generally, to reduce fine droplets, nozzles should be oriented parallel with the airflow in flight.

RELEASE HEIGHT - Aircraft

- Higher release heights increase the potential for spray drift. When applying aurally to crops, do not release spray at a height greater than 10 ft above the crop canopy, unless a greater application height is necessary for pilot safety.
- The boom length must not exceed 75% of the wingspan or 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.

TEMPERATURE AND HUMIDITY

- When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

TEMPERATURE INVERSIONS

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upwards and rapidly dissipates indicates good vertical air mixing. Avoid applications during temperature inversions

WIND

- Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS. Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.
- Do not apply at wind speeds greater than 15 mph at the application site.
- 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.

BOOM-LESS GROUND APPLICATION

- Setting nozzles at the lowest effective height will help to reduce the potential for spray drift

HANDHELD TECHNOLOGY APPLICATIONS

- Take precautions to minimize spray drift.

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 on deciduous fruit and nut trees. 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 per acre.

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: Do not tank-mix with any herbicide. Do not tank mix with any insecticide, fungicide or miticide whose label indicates that it should not be used with oil. Consult local pest management information regarding other insecticides that may be tank-mixed with oil. This information should indicate rates for the insecticide and the oil along with more precise information as to the best time for application .It is important for users to read and follow all directions and restrictions on the labels of the proposed tank-mixed products. Check tank mixture for physical and chemical compatibility, Mix only enough material to do the job.

This product may be used:

1. as a carrier for Bacillus thuringiensis when applied through a mist blower or cold fog machine.
2. in a tank mix with Lorsban on apples, pears, plums, prunes, peaches, sweet corn and field corn.
3. as a spreader or carrier for some synthetic organic insecticides.

APPLICATIONS TO ALMONDS, APPLES, APRICOTS, CHERRIES, PEACHES, NECTARINES, PEARS, PLUMS AND PRUNES.

Completely cover all tree parts to achieve adequate control. Oil alone will control low to moderate infestations. Oil may be combined with other compatible insecticides for controlling higher scale infestations or to achieve better control for Peach Twig Borer. Care is required when combining certain miticides or insecticides due to possible phytotoxicity when applied to foliage. Do not apply over certain fresh market fruits after the bloom starts to form as the oil spray will remove the waxy bloom. Consult the local pest management guidelines or Agricultural Extension Service for more details as to the rates and times of application for your specific location.

APPLICATION TO CITRUS

Oils applied after October may increase cold damage to trees. Oils applied in August and September may affect solids content and retard coloring.

APPLICATION TO GRAPES

Make the oil application before mites reach high populations. Vineyards need to be vigorous and supplied with sufficient water prior to application. Do not allow excessive webbing or burning. No sensitivity to Sunspray treatments has been seen in the vineyards of Cabernet, Merlot, Chardonnay or Ribier when used for insect control. Do not mix Sunspray with dicofol (Kelthane), Captan, or sulfur since all can cause phytotoxicity in some varieties. Use airblast sprayers to avoid plant injury and reduce effect on the bloom of some table grapes.

USE PRECAUTIONS

Keep oil container tightly closed in storage to prevent entry of water. Store drum on its side. Roll drum before use. All horticultural oils interfere with or slow plant transpiration and respiration during the period of evaporation. Phytotoxicity may result if this product is sprayed on plants during periods of prolonged high temperature and high relative humidity. Do not spray plants under stress (i.e. drought, disease). Do not spray immediately prior to, during or following unusually cold weather or freezing temperatures.

Do not use the following list of representative pesticides with Sunspray, however this list is not exhaustive: captan (Captan), cyprex (Dodine), chlorothalnil (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 Sunspray. Do not use with Sevin 50W formulation (carbaryl) on deciduous fruit trees.

Application Rate

Crops	Insect control Aid	Application Rate			Time of Application (Stage of Development)
		Dilute Spray Per 100 Gal. water	Concentrate Gallons Oil Per Acre	Aerial* Gallons Oil per Acre	
Almonds	Mite Eggs European Red Mite Brown Mite	1.5 – 2.0	4 – 8	4 – 8	Dormant or delayed dormant
	Scales San Jose scale	1.5 – 2.0	4 – 8	4 - 8	Dormant or delayed dormant
	Fruit Tree Leafroller eggs	1.5 – 2.0	4 – 8	4 – 8	Dormant or delayed dormant
	Peach Twig Borer	1.5 – 2.0	4 - 8	4 - 8	Dormant or delayed dormant If applying oil alone for moderate to severe San Jose scale infestations use the dilute application only. Do not use oil on water-stressed trees.
	Mites Scales	1.0	3 - 6	3 - 6	Summer (foliar or cover) or post-harvest. Application should not be made over oil sensitive varieties. Do not use oil on water-stressed trees.
Apples	Apple Red Bug	1.5-2.0	4-8	4-8	Dormant through Tight Cluster
	Fruit Tree Leaf Roller (Eggs)	1.5-2.0	4-8	4-8	
	European Red Mite (Eggs)	1.5-2.0	4-8	4-8	
	Aphid Eggs	1.5–2.0	4-8	4-8	
	Scales San Jose scale European Fruit Lecanium Scale Scurfy Scale Italian Pear Scale	1.5-2.0	4-8	4-8	
	Mites Scales	1.0	3-6	3-6	Summer (Foliar or Cover) or Post Harvest

*Use aerial application only as an emergency application when soil and terrain conditions do not permit regular ground application to deciduous fruit and nut trees.

Application Rate

Crops	Insect control Aid	Dilute Spray Per 100 Gal. water	Concentrate Gallons Oil Per Acre	Aerial* Gallons Oil Per Acre	Time of Application (Stage of Development)
Apricots	Mite Eggs European Red Mite Brown Mite	1.5 - 2.0	4-8	4-8	Dormant or Delayed Dormant
	Aphid Eggs	1.5 - 2.0	4-8	4-8	Dormant or Delayed Dormant Dormant or Delayed Dormant
	Scales European Fruit Lecanium Scale San Jose scale	1.5 - 2.0	4-8	4-8	Dormant or Delayed Dormant
	Fruit Tree Leafroller eggs	1.5 - 2.0	4-8	4-8	Dormant or Delayed Dormant
	Peach Twig Borer	1.5 - 2.0	4-8	4-8	Do not use on water-stressed trees.
	Mite Scales	1.0	3-6	3-6	Summer (Foliar or Cover) or Post Harvest. Application should not be made over oil sensitive varieties. Do not use oil on water-stressed trees.
Avocados Haas Variety Only	Mites Scales	1.0	7-18	7-18	Late Summer-Fall. Good coverage is required to be effective. Do not use if temperature is >90°F or RH is <30%. Trees should not be stressed (i.e. drought). Consult your Agricultural Extension Service for special recommendations.

*Use aerial application only as an emergency application when soil and terrain conditions do not permit regular ground application to deciduous fruit and nut trees.

Application Rate

Crops	Insect control Aid	Dilute Spray Per 100 Gal. water	Concentrate Gallons Oil Per Acre	Aerial* Gallons Oil Per Acre	Time of Application (Stage of Development)
Cherries (sweet & tart)	Mite Eggs European Red Mite Brown Mite	1.5 – 2.0	4 – 8	4 – 8	Dormant or Delayed Dormant
	Aphid Eggs	1.5 – 2.0	4 – 8	4 – 8	Dormant or Delayed Dormant
	Fruit Tree Leafroller eggs	1.5 – 2.0	4 – 8	4 – 8	Dormant or Delayed Dormant
	Scales European Fruit Lecanium Scale Black Scale San Jose scale	1.5 – 2.0	4 – 8	4 – 8	Dormant or Delayed Dormant
	Cherry Leafhopper eggs	1.5 – 2.0	4 – 8	4 – 8	Dormant or Delayed Dormant
	Peach Twig Borer	1.5 – 2.0	4 - 8	4 - 8	Dormant or Delayed Dormant Do not apply oil to water or disease stressed trees.
	Mites Scales	1.0	3 - 6	3 - 6	Summer (foliar or cover) or post-harvest. Application should not be made over oil sensitive varieties. Do not apply oil to water or diseased stressed trees.
Corn (Field & Sweet)	Ear Worms Corn Root Worms	2.0	NR	NR	Spring - early
Figs	Scales	1.5 - 2.0	4-8	4-8	Dormant or Delayed Dormant
	Mites Scales	1.5 - 2.0	NR	NR	Summer (Foliar or Cover)

*Use aerial application only as an emergency application when soil and terrain conditions do not permit regular ground application to deciduous fruit and nut trees.
NR = not recommended.

Application Rate

Crops	Insect control Aid	Dilute Spray Per 100 Gal. water	Concentrate Gallons Oil Per Acre	Aerial* Gallons Oil Per Acre	Time of Application (Stage of Development)
Grapes	Mealybugs	1.0 - 2.0	NR	NR	Dormant - A tank mix using an insecticide improves control.
	Mites	2.0	NR	NR	Bud swell or shoot growth of 5-7 cm (2-3 inches) in spring. Can also be used postharvest.
Kiwifruit	Scales Leaf Rollers	1.0	NR	NR	Late Spring-Summer. Do not apply during period of fruit sensitivity, @ 10 days after flowering to the third week of July. Do not apply at rates higher than indicated. Do not apply during weather conditions that allow for slow drying of the spray solution. Do not spray additives.
Olives	Scales	1.5	NR	NR	Post bloom-Summer and Postharvest-Prebloom. Apply 400-1500 gal dilute spray per acre. Spray at night or early morning if temperatures are expected to exceed 90°F during the day. Do not apply oil to olives used for Spanish or green-ripe processing between Aug 20 and harvest due to fruit spotting.

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NR = not recommended.

Application Rate

Crops	Insect control Aid	Dilute Spray Per 100 Gal. water	Concentrate Gallons Oil Per Acre	Aerial* Gallons Oil Per Acre	Time of Application (Stage of Development)
Pears	Mite Eggs European Red Mite Brown Mite Pear Leaf Blister Mite	1.5 - 2.0	4-6	4-6	Dormant or Delayed Dormant
	Scales European Fruit Lecanium Scale San Jose scale	1.5 - 2.0	4-6	4-6	Dormant
		1.5 - 2.0	4-6	4-6	SJS - Do not apply to heavy infestations
	Mealybugs (Eggs & Crawlers)	1.5 - 2.0	4-6	4-6	Dormant or Delayed Dormant
	Fruit Tree Leaf Roller (Eggs)	1.5 - 3.0	4-6	4-6	Dormant
	Pear Psylla	1.5 - 2.0	4-6	4-6	Dormant. Make sure root zone is wet from rain or irrigation.
	Mites Two-spotted spider mite Brown Mite Pear Rust Mist Pear Leaf Blister Mite Pear Psylla	1.0 1.0 1.0 - 2.0 1.5 - 2.0 1.5 - 2.0	3 - 6 3 - 6 3 - 6 4 - 6 4 - 6	3 - 6 3 - 6 3 - 6 4 - 6 4 - 6	Summer (Foliar or Cover) or Postharvest

* Use aerial application only as an emergency application when soil and terrain conditions do not permit regular ground application to deciduous fruit and nut trees.

Application Rate

Crops	Insect control Aid	Dilute Spray Per 100 Gal. water	Concentrate Gallons Oil Per Acre	Aerial* Gallons Oil Per Acre	Time of Application (Stage of Development)
Peaches & Nectarines	Mite Eggs European Red Mite	1.0 – 1.5	3-8	3-8	Dormant
	Scales Cottony Peach Scale San Jose scale	1.0 – 2.0	3-8	3-8	Dormant
	Fruit Tree Leaf Roller (Eggs)	1.0 – 1.5	3-8	3-8	Dormant
	Peach Twig Borer	1.0 – 1.5	3-8	3-8	Dormant. Do not use on water-stressed trees.
	Mites Scales	1.0	3-6	3-6	Summer (Foliar or Cover) or Postharvest
Persimmons	Book lice (psocids) Leafrollers Scales	1.0	NR	NR	Summer (Foliar or Cover) into fall. Do not exceed 5 applications in a growing season. Make successive applications at intervals of at least 2 weeks.

* Use aerial application only as an emergency application when soil and terrain conditions do not permit regular ground application to deciduous fruit and nut trees.
NR = not recommended.

Application Rate

Crops	Insect control Aid	Dilute Spray Per 100 Gal. water or as specified	Concentrate Gallons Oil Per Acre	Aerial* Gallons Oil Per Acre	Time of Application (Stage of Development)
Plums & Prunes	Mite Eggs European Red Mite Brown Mite	1.5 - 2.0	4-6	4-6	Dormant or Delayed Dormant
	Scales European Fruit Lecanium Scale San Jose scale	1.0 - 1.5	3-6	3-6	Dormant or Delayed Dormant
	Aphid Eggs	1.0 - 1.5	3-6	3-6	Dormant or Delayed Dormant
	Peach Twig Borer	1.0 - 1.5	3-6	3-6	Dormant or Delayed Dormant. Oil applications to kill over-wintering eggs may cause some young shoot burn or dieback. Always apply oil to well-watered trees. Do not use on Queen Ann variety of Plum.
	Mites Scales	1.0	3-6	3-6	Summer (Foliar or Cover) or Postharvest. Application should not be made over oil sensitive varieties.
Sugar Beets	Mites Leafminer	2 Gals/acre	NR	NR	As Needed
Walnuts	Mites Scales	4 Gal (200-400 gal water /acre)	4	NR	Post bloom - Late Spring to mid-Summer. Apply oil to walnuts only when soil moisture is adequate and trees have not been stressed (insect disease damage, etc.) at any time during the year. Do not apply oils during dormant season.

*Use aerial application only as an emergency application when soil and terrain conditions do not permit regular ground application to deciduous fruit and nut trees.
NR = not recommended.

Application Rate

Crops	Insect control Aid	Dilute Spray Gals. /100 Gals	Concentrate* Gal. / Acre	Comments
Citrus**	Citrus Bud Mite Citrus Red Mite Citrus Rust Mite Scale Insects	0.5 – 1.5	3-30	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.
	Spider Mites Whitefly Loosens Sooty Mold	0.75	4-15	

***Apply in sufficient water and manner to assure thorough distribution.**

****** 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 active ingredient per acre (maximum 2000 gallons of spray mix per acre)

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

Pesticide Storage: Store in a cool, dry, locked area out of the reach of children. Keep oil container tightly closed in storage to prevent entry of water.

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 greater than 5 gallons:

Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse or (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.

Rigid, nonrefillable plastic or metal containers equal to or less than 5 gallons: Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse (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.

Plastic containers: Offer for recycling. If recycling is not available, puncture and dispose of container in a sanitary landfill or by incineration.

Metal containers: 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 LAW, 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 LAW, 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 LAW, 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.

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