

2935-546

02/20/2013

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

FEB 20 2013

Ms. Anne Downs  
Senior Registration Specialist  
Wilbur-Ellis Company  
P.O. Box 1286  
Fresno, CA 93715

S 931232  
300/1155

Subject: PN ALL SEASON SPRAY OIL  
EPA Registration No. 2935-546  
Label Resubmission of February 13, 2013

Dear Ms. Downs:

The proposed amended label submitted on February 13, 2013, for this product is accepted under the provisions of the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended. When labels are printed, the change indicated below should be made to that label.

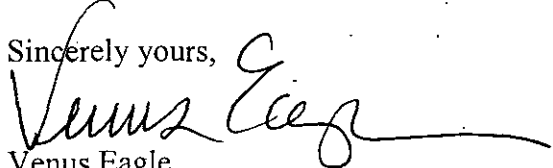
1. At the end of the second paragraph under "**DIRECTIONS FOR USE**" (page 2), "**REGULATION**" should be changed to "**REGULATIONS**".

A stamped copy of the label is enclosed for your records.

Submit two copies of final printed labeling before releasing this product for shipment under the labeling accepted via this letter.

If these conditions are not complied with, this registration will be subject to cancellation in accordance with FIFRA section 6(e).

If you have any questions regarding this letter, you may reach Dr. William Jacobs by phone at 703-305-6406, by FAX at 703-308-0029, or via e-mail at [jacobs.bill@epa.gov](mailto:jacobs.bill@epa.gov).

Sincerely yours,  
  
Venus Eagle  
Product Manager 01  
Insecticide-Rodenticide Branch  
Registration Division (7505P)

Enclosure



WILBUR-ELLIS®

# PN All Season Spray Oil

(INSECTICIDE – FUNGICIDE - MITICIDE)

<b>ACTIVE INGREDIENT</b>	By Wt.
Mineral Oil* .....	99.00%
<b>OTHER INGREDIENTS</b> .....	1.00%
<b>TOTAL</b> .....	100.00%

\*Contains petroleum distillates  
 Min. Unsulfonated Residue – 99%  
 Petroleum Oil Classification – Unclassified

**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION**

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

**CAUTION:** Harmful if absorbed through the skin. Avoid contact with eyes, skin, or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

**ACCEPTED**  
 FEB 20 2013  
 Under the Federal Insecticide, Fungicide,  
 and Rodenticide Act, as amended, for the  
 pesticide registered under:  
 2935-546  
 EPA Reg. No:

<b>FIRST AID</b>	
If on skin or clothing:	<ul style="list-style-type: none"> <li>•Take off contaminated clothing.</li> <li>•Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>•Call a poison control center or doctor for treatment advice.</li> </ul>
If in eyes:	<ul style="list-style-type: none"> <li>•Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>•Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.</li> <li>•Call a poison control center or doctor for treatment advice.</li> </ul>
If swallowed:	<ul style="list-style-type: none"> <li>•Call a poison control center or doctor for treatment advice.</li> <li>•Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>•Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.</li> </ul>
If inhaled:	<ul style="list-style-type: none"> <li>•Move person to fresh air.</li> <li>•If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.</li> <li>•Call a poison control center or doctor for further treatment advice.</li> </ul>
<p><b>HOT LINE NUMBER:</b> Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-892-0099 for emergency medical treatment information.</p> <p><b>NOTE TO PHYSICIAN:</b> This product contains petroleum distillates and may pose an aspiration pneumonia hazard.</p>	

EPA Reg. No. 2935-546  
 EPA Est. No. 2935-CA-1<sup>F</sup>, 2935-CA-19<sup>R</sup>, 2935-CA-31<sup>H</sup>  
 Superscript used is the first letter of the lot number

Rec'd 2/14/13

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Some materials that are chemical-resistant to this product are barrier laminate and viton. If you want more options, follow the instructions for category G on an EPA chemical-resistance category selection chart.

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

- Long-sleeve shirt and long pants,
- Shoes plus socks, and
- Chemical-resistant gloves

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**

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.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- 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.

**PHYSICAL OR CHEMICAL HAZARDS**

Do not use, pour or store near heat or open flame.

**DIRECTIONS FOR USE**

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

**READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATION.**

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

Do not apply this product through any type of irrigation system.

**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 12 hours.

PPE required for early entry to treated area 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

**PRODUCT INFORMATION AND RESTRICTIONS**

- PN All Season Spray Oil is an especially refined Phytonomic Oil Contact Insecticide. It is registered for use on the types of plants listed on this label during their foliage or dormant stages.
- When using this product in combination with other pesticides as directed on this label, follow all precautions, limitations, and restrictions on the labels for the other pesticide products in the tank mix that are applicable to the crop or other type of plant that is to be treated.
- For foliage applications, the spray tank must be free of any sulfur residue before using PN All Season Spray Oil.
- Do not combine sulfur sprays with PN All Season Spray Oil on foliage and do not follow a previous application of sulfur or apply sulfur following PN All Season Spray Oil until sufficient time has elapsed for crop safety (at least 15 days) unless noted otherwise on this label.
- For wine grapes and raisin grapes, the sulfur spray interval may be reduced to 10 days. If in doubt regarding crop safety, you should conduct a test by spraying a portion of one vine previously treated with sulfur, using 1 quart of product to 25 gallons of water. If sufficient time has not elapsed, burn symptoms will show in several days.
- When using Spray Oil in combination with lime sulfur products, always adhere strictly to the use directions and restrictions shown on the label of the lime sulfur product.
- Do not use on foliage sooner than 60 days after, or 90 days before, an application of captan or folpet products.

**CONCENTRATE SPRAYS**

- Do not apply PN All Season Spray Oil as a concentrate spray to Queen Ann variety of prunes or other oil sensitive varieties as phytotoxicity to buds and new wood will result.
- Oil effectiveness in dormant and delayed dormant applications is determined by thoroughness of coverage.
- Concentrate spraying is a more exacting technique of spray application than dilute spraying. Concentrate spray equipment must be thoroughly calibrated and operated and must be capable of giving thorough coverage for maximum effectiveness.

**CONCENTRATE SPRAYS(cont.)**

- Concentrate sprays may result in reduced coverage and effectiveness.
- Multiple concentrate applications may cause foliage, fruit, and plant injury. Concentrate application may delay bud development.
- Phytotoxicity studies have not been made on all fruit varieties or in all growing areas for concentrate applications.
- To avoid double applications on the ends of the row during turning, turn off the sprayer.

**IMPORTANT**

- Do not use PN All Season Spray Oil when temperatures are above 90° F. When temperatures drop below 32° F (usually nighttime lows), do not spray tree and vine crops until daytime temperatures have warmed to a point above 35° F and are free from moisture due to melting frost or heavy dews.
- Applications of oil before and during freeze conditions can increase damage.
- Applications to trees weakened by disease, drought, drying winds, or high nitrogen applications may result in oil injury.
- Oil applications made to trees that are weak or suffering from moisture stress or when slow drying of spray occurs may cause bud, twig, or leaf injury.
- Cool, damp, or extremely dry weather, broken emulsions, and/or faulty application may cause oil injury. Follow state recommendations and precautions.
- If San Jose Scale is a moderate to severe problem, use dilute application.

**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.

**Ground Application**

- 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.
- 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.
- Apply as a medium or coarser spray (ASABE standard 572), and the minimum volume mean diameter (VMD) for spinning atomizer nozzles.
- 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 Application**

- 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 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.
- 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.
- Apply as a medium or coarser spray (ASABE standard 572), and the minimum volume mean diameter (VMD) for spinning atomizer nozzles.

**ADDITIONAL PRECAUTIONS FOR AERIAL APPLICATIONS**

For aerial application, use the quantity of product shown for each listed crop for control of listed insects in sufficient water to apply a minimum of 10 gallons spray per acre. Follow the timing directions specified on this label for the crop to be treated.

**Use the aerial application method only when soil conditions do not permit regular ground application. Aerial applications of PN All Season Spray Oil are less effective than ground applications due to rate limitations and lack of thorough coverage.**

**MIXING DIRECTIONS**

Check this product for proper emulsification by mixing a small quantity of it with water in a small container before filling the entire spray tank. Correct emulsification is indicated when a uniform mixture, with a cloudy white color, results on shaking. If this mixture is not a milky emulsion after shaking, do not use the remaining product.

Mixing Order: With agitator running, start filling spray tank with water. Add wettable powder insecticides or fungicides, followed by nutrients when spray tank is 1/3 filled and mix thoroughly. Add PN All Season Spray Oil when tank is about 1/2 full while maintaining sufficient agitation of the spray to ensure complete emulsification. Pump the finished spray solution through the overflow and back into the spray tank for two minutes. Use only in equipment with sufficient agitation to ensure the spray solution remains thoroughly mixed. Keep agitator running at all times. Do Not Use this spray mixture if it does not remain thoroughly emulsified.

FOLIAR APPLICATIONS – DILUTE SPRAYS

Crop	Pest	PN All Season Spray Oil Per 100 gals. Water	Further Use Instructions
<p>Almonds Apricots Cherries** Nectarines** Peaches** Pistachio Plums Prunes</p> <p>**Idaho, Oregon and Washington: Post Harvest Fall applications with any sulfur product must be made when temperatures are at, or below, 80° F.</p>	<p>Borer (Peach Twig) Mites (Pacific Spider, Red Spider) Powdery Mildew Scale (Brown Apricot) Scale, (San Jose)</p>	<p>1 to 2 gals.</p>	<p>For summer stages of pests. DO NOT exceed 4 gals. of this product per acre. On young trees and susceptible varieties, use lower rates. Special precautions should be used with summer oil applications, because they have greater potential for plant and fruit damage than pre-bloom applications. Applications of oil before and during freeze conditions can increase damage. Use a minimum spray volume of 100 gals/acre.</p>
<p>Apples**</p> <p>**Idaho, Oregon and Washington: Post Harvest Fall applications with any sulfur product must be made when temperatures are at, or below, 80° F.</p>	<p>Codling Moth Mites (Orchard, Rust) Powdery Mildew Scale (San Jose)</p>	<p>½ to 2 gals.</p>	<p>For summer use, DO NOT exceed 4 gals. of this product per acre. On young trees and susceptible varieties, use lower rates. Special precautions should be used with summer oil applications, because they have greater potential for plant and fruit damage than pre-bloom applications. Use a minimum spray volume of 100 gals./acre.</p>

**FOLIAR APPLICATIONS – DILUTE SPRAYS(cont.)**

Crop	Pest	PN All Season Spray Oil Per 100 gals. Water	Further Use Instructions
Avocados	Mites (Avocado brown, Pracea mite) Thrips	½ to 1 gal.	Apply within the specified range of rates to achieve optimum coverage in 400 to 3000 gals. of spray per acre. DO NOT exceed 15 gals. of this product per acre. When applying more than 2% v/v concentration, treat and observe a small test area. Allow enough time for symptoms to appear before continuing to spray. Symptoms include tissue injury (burning) and cosmetic injury (dulling of waxy cuticle). Use a minimum spray volume of 100 gals./acre.
Bushberries and Caneberries, including blackberry, blueberry, boysenberry, red and black raspberry, evergreen blackberry, kotata blackberry	Mites Powdery Mildew Rust Scale	½ to 1 ½ gals.	Using ground equipment, apply spray for optimum coverage and thorough leaf wetness. For use on fungal diseases, use spray pressures (psi), sufficient to penetrate the canopy. DO NOT exceed 1.5 gals. of this product per acre. Use a minimum spray volume of 100 gals./acre.



FOLIAR APPLICATIONS – DILUTE SPRAYS(cont.)

Crop	Pest	PN All Season Spray Oil Per 100 gals. Water	Further Use Instructions
Citrus: Grapefruit, Lemons, Limes, Tangerines, Tangelos and other citrus hybrids	Mites (Red Spider) Scale (Black, Purple, Red, Yellow)	1 to 1 ¼ gals.	Apply this product during winter and spring months when Red Scale is more easily controlled and trees generally are less reactive to oil sprays. When using this product on citrus in Florida or Texas, do not exceed a maximum of 159 pounds of active ingredient or a maximum of 1500 gals. of spray mix per acre. When using this product on citrus in California, do not exceed a maximum of 212 pounds of active ingredient, or a maximum of 2,000 gals. of spray mix per acre. Do not use within 8 weeks of harvest on lemons.
Coffee	Scale	3 to 6 gals.	Apply when insects first appear and treat as necessary at 30- to 60-day intervals. DO NOT exceed 18 gals. of this product per acre in a growing season. Do not apply within 30 days of harvest when berries are to be handpicked. Oil residues make hand picking difficult. Use a minimum spray volume of 100 gals./acre.
Corn (sweet and field)	Aphids, Armyworm Corn Earworm Leafminer, Mites Rootworm, Whitefly	1 to 2 gals.	DO NOT exceed 6 gals. of this product per acre. Use a minimum spray volume of 100 gals./acre.

FOLIAR APPLICATIONS – DILUTE SPRAYS(cont.)

Crop	Pest	PN All Season Spray Oil Per 100 gals. Water	Further Use Instructions
Figs	Mealybug Mites Scale	1 to 2 gals.	DO NOT exceed 4 gals. of this product per acre. Use a minimum spray volume of 100 gals./acre.
Grapes (table)	Mealybug	See NOTE:	For (post harvest) Fall spray use only. NOTE: Use 4 to 6 gals. of this product in 200 to 300 gals. of water per acre.
	Mites (summer use) Powdery Mildew	¼ to 2 gals.	DO NOT exceed 2 gals. of this product per acre during summer applications. Do not make more than 2 sequential applications within a 30-day time period. Do not apply this product within 30 days of any sulfur application. Do not apply this product from bud break to harvest. Use a minimum spray volume of 100 gals./acre.
Grapes (raisin, wine)	Mealybug	See NOTE:	For (post harvest) Fall spray use only. NOTE: Use 4 to 6 gals. of this product in 200 to 300 gals. of water per acre. Do not make more than 2 sequential applications within a 30-day time period. Use a minimum spray volume of 100 gals./acre.
	Mites (summer use) Powdery Mildew	¼ to 2 gals.	DO NOT exceed 2 gals. of this product per acre during summer applications. Do not apply this product within 10 days of any sulfur application. Do not make more than 2 sequential applications within a 30-day time period. Use a minimum spray volume of 100 gals./acre.

FOLIAR APPLICATIONS – DILUTE SPRAYS(cont.)

Crop	Pest	PN All Season Spray Oil Per 100 gals. Water	Further Use Instructions
Hops (Not registered for use in California)	Mites	1 to 5 gals.	Apply this product with ground equipment only. Thorough coverage is essential. DO NOT exceed 5 gals. of this product per acre. Use 50 to 200 gals. of dilute spray per acre depending upon plant size. Use a minimum spray volume of 100 gals./acre.
	Powdery Mildew	1 to 5 gals.	Apply this product with ground equipment only. Thorough coverage is essential. DO NOT exceed 5 gals. of this product per acre. Use 50 to 200 gals. of dilute spray per acre depending upon plant size. Make first application at early leaf stage. Repeat every 7 to 14 days depending upon new growth. Use 7-day application interval and/or 5 gals. of product per 100 gals. of water when the conditions for infection are more severe.
	Do not use propargite with or following an oil spray. Do not spray wet foliage or if temperature is above 90° Fahrenheit or if plants are under heat or moisture stress.		
Navel Oranges	Mites (Red Spider) Scale (Black, Purple, Red, Yellow)	¾ gals.	Do not use on Navel oranges after September 1. Do not apply more than 159 pounds of active ingredient or more than 1,500 gals. of spray mix per acre in Florida and Texas. Do not apply more than 212 pounds of active ingredient or more than 2,000 gals. of spray mix per acre in California

FOLIAR APPLICATIONS – DILUTE SPRAYS(cont.)

Crop	Pest	PN All Season Spray Oil Per 100 gals. Water	Further Use Instructions
Olives	Mites (Spider) Scale (Black, Oleander, Olive, Parlatoria)	1 ½ gals.	Apply this product pre-bloom or post-bloom up to the buckshot growth stage. DO NOT exceed 8 gals. of this product per acre. Use a minimum spray volume of 100 gals./acre.
Olives (California Only)	Scale (Black)	1 to 1 ½ gals.	Apply 100 to 800 gals. dilute spray per acre. DO NOT exceed 12 gals. of this product per acre. Make applications between July 1 and August 31. Use a minimum spray volume of 100 gals./acre.
Ornamentals and Shade Trees: Apple, Birch, Conifers (See NOTE), Dogwood, Flowering Peach, Flowering Cherry, Hawthorn, Holly, Magnolia, Maple, Oak, Privet, Pyracantha, Sycamore	Mites (Spider) Mites (Eggs of) Scale (Black, Brown Apricot, Oyster Shell, San Jose, Soft Brown)	1 gals.	NOTE: Applications to Blue Spruce may cause discoloration. Do not use on conifers or ferns not tolerant to oil sprays. For the listed crops, make a test application on a small number of plants to test for oil sensitivity prior to making a commercial application to the entire crop. Allow a sufficient rain event to precede or follow either an herbicide or propargite application before applying this product. DO NOT exceed 6 gals. of this product per acre. Use a minimum spray volume of 100 gals./acre.

FOLIAR APPLICATIONS – DILUTE SPRAYS(cont.)

Crop	Pest	PN All Season Spray Oil Per 100 gals. Water	Further Use Instructions
Pears**  **Idaho, Oregon and Washington: Post Harvest Fall applications with any sulfur product must be made when temperatures are at, or below, 80° F.	Codling Moth Mites (Orchard, Red Spider) Scale (San Jose) Synergist for Pear Psylla insecticides	$\frac{1}{2}$ to 2 gals.	For summer use. DO NOT exceed 4 gals. of this product per acre. On young trees and susceptible varieties, use lower rates. Special precautions should be used with summer oil applications, because they have greater potential for plant and fruit damage than pre-bloom applications. Use a minimum spray volume of 100 gals./acre.
	Scale (Italian Pear, San Jose)	1 to 1 $\frac{1}{2}$ gals.	Apply this product to summer forms of San Jose and Italian Pear Scale. DO NOT exceed 3 gals. of this product per acre. Use a minimum spray volume of 100 gals./acre.
Strawberries	Botrytis Leafminers Mites Powdery Mildew	$\frac{1}{2}$ to $\frac{3}{4}$ gal.	Spray at no less than 400 psi using ceramic spray nozzles (ALBUS® ATR), lilac color or their equivalent. DO NOT exceed 3 gals. of this product per acre. Use a minimum spray volume of 100 gals./acre.
Sugar Beets	Aphids Armyworm Corn Earworm Leafminers Mites Rootworm Whitefly	2 gals.	DO NOT exceed 3 gals. of this product per acre. Use a minimum spray volume of 100 gals./acre.

**FOLIAR APPLICATIONS – DILUTE SPRAYS(cont.)**

Crop	Pest	PN All Season Spray Oil Per 100 gals. Water	Further Use Instructions
Valencia Oranges	Mites (Red Spider) Scale (Black, Purple, Red, Yellow)	1 gal.	Do not apply to Valencia oranges after September 1. Do not apply more than 159 pounds of active ingredient or more than 1,500 gals. of spray mix per acre in Florida and Texas. Do not apply more than 212 pounds of active ingredient or more than 2,000 gals. of spray mix per acre in California.
Walnuts	Mites (Red Spider) Scale (European Fruit, Frosted [summer stages], San Jose, Soft Shelled)	½ to 1 gal.	Apply this product during the late spring to mid-summer only. Do not apply after husk split. DO NOT exceed 3 gals. of this product per acre. Use a minimum spray volume of 100 gals./acre.

**FOLIAR APPLICATIONS – CONCENTRATE SPRAYS**

Crop	Pest	PN All Season Spray Oil Per Acre	Further Use Instructions
Almonds Apricots Cherries** Nectarines** Peaches** Pistachio Plums Prunes  ** Idaho, Oregon and Washington: Post Harvest Fall applications with any sulfur product must be made when temperatures are at, or below, 80° F.	Borer (Peach Twig) Mites (Brown, European Red, Pacific Spider, Two-Spotted) Powdery Mildew	1 to 3 gals.	For summer use with concentrate sprayers, apply this product in 25 to 200 gals. of water per acre. Do not apply to trees lacking adequate moisture. On young trees and susceptible varieties, use 1 gal. of this product per acre. Special precautions should be used with summer oil applications because they have greater potential for plant and fruit damage than pre-bloom applications. This product may be applied by air in 3 to 20 gals. of water per acre.

FOLIAR APPLICATIONS - CONCENTRATE SPRAYS(cont.)

Crop	Pest	PN All Season Spray Oil Per Acre	Further Use Instructions
<p>Apples**</p> <p>** Idaho, Oregon and Washington: Post Harvest Fall applications with any sulfur product must be made when temperatures are at, or below, 80° F.</p>	<p>Codling Moth. Mites (Orchard) Powdery Mildew San Jose Scale*</p>	<p>1 to 3 gals.</p>	<p>For summer use with . concentrate sprayers, apply this product in 80 to 100 gals. of water per acre. On young trees and susceptible varieties, use 1 gal of this product per acre. Special precautions should be used with summer oil applications because they have greater potential for plant and fruit damage than pre-bloom applications. This product may be applied by air in 3 to 20 gals. of water per acre. *If San Jose Scale is a moderate to severe problem, use dilute application.</p>
<p>Avocados</p>	<p>Mites (Avocado brown, Pracea) Thrips</p>	<p>4 to 15 gals.</p>	<p>Use in 50 to 100 gals. of water. When the application of oil is more than 2% v/v concentration, treat and observe a small test area. Allow enough time for symptoms to appear before continuing to spray. For aerial applications use 1 to 6 gals. of oil per acre in 10 gals. of water per acre.</p>

**FOLIAR APPLICATIONS – CONCENTRATE SPRAYS(cont.)**

<b>Crop</b>	<b>Pest</b>	<b>PN All Season Spray Oil Per Acre</b>	<b>Further Use Instructions</b>
Citrus: Grapefruit, Lemons, Limes, Oranges (Navel and Valencia), Tangerines and Tangelos and other citrus hybrids	Mites (Citrus Red)	5 to 15 gals.	Apply this product as a concentrate spray application (mist sprayer) in 50 to 100 gals. water per acre. Apply to Valencia oranges only during the period from mid-July through August. Do not apply to lemons within 60 days of harvest. Concentrate spray applications require the spray droplets be discharged into an air stream pattern of high velocity (above 100 mph) and with sufficient volume to carry the spray through the tree. Ground speed should not exceed 1 1/2 mph. Use only equipment capable of applying concentrate spray.
Grapes	Mealybug	1/4 to 6 gals.	For (post harvest) Fall spray use only. Use a minimum spray volume of 25 gals./acre. Do not make more than 2 sequential applications within a 30-day time period.
Grapes (table)	Mites (summer use) Powdery Mildew	1/4 to 2 gals.	DO NOT exceed 2 gals. of this product per acre during summer applications. Do not apply this product within 30 days of any sulfur application. Do not make more than 2 sequential applications within a 30-day time period. Do not apply from bud break to harvest. Use a minimum spray volume of 25 gals./acre.



FOLIAR APPLICATIONS – CONCENTRATE SPRAYS(cont.)

Crop	Pest	PN All Season Spray Oil Per Acre	Further Use Instructions
Grapes (raisin, wine)	Mites (summer use) Powdery Mildew	¼ to 2 gals.	DO NOT exceed 2 gals. of this product per acre during summer applications. Do not apply this product within 10 days of any sulfur application. Do not make more than 2 sequential applications within a 30-day time period. Do not apply from bud break to harvest. Use a minimum spray volume of 25 gals./acre.
Olives	Mites Scale	4 to 8 gals.	Use in 50 to 100 gals. of water. When the application of oil is more than 2% v/v concentration, treat and observe a small test area. Allow enough time for symptoms to appear before continuing to spray. For aerial applications, use 1 to 6 gals. of oil per acre in 10 gals. of water per acre.
Pears**  **Idaho, Oregon and Washington: Post Harvest Fall applications with any sulfur product must be made when temperatures are at, or below, 80° F.	Codling Moth Mites (Orchard) San Jose Scale* Synergist for Pear Psylla insecticides	1 to 3 gals.	For summer use with concentrate sprayers. DO NOT exceed 4 gals. of this product per acre. Apply this product in 80 to 200 gals. of water per acre. On young trees and susceptible varieties, use 1 gal. of product per acre. Special precautions should be used with summer oil applications, because they have greater potential for plant and fruit damage than pre-bloom applications. *If San Jose Scale is a moderate to severe problem, use dilute application.

**FOLIAR APPLICATIONS – CONCENTRATE SPRAYS(cont.)**

Crop	Pest	PN All Season Spray Oil Per Acre	Further Use Instructions
Walnuts	Mites (Red Spider) Scale (European Fruit, Frosted [summer stages], San Jose*, Soft Shelled)	1 gal.	Apply this product during the late spring to mid-summer only. Do not apply after husk split. Use a minimum spray volume of 25 gals./acre. *If San Jose Scale is a moderate to severe problem, use dilute application.

**DORMANT OR DELAYED DORMANT\* – DILUTE SPRAYS**

**\*DELAYED DORMANT:**

California Only – Delayed dormant is defined as the growth stage up to the first presence of green tissue.

Crop	Pest	PN All Season Spray Oil Per 100 gals. Water	Further Use Instructions
Almonds Apricots Cherries** Nectarines** Peaches**  Plums and Prunes (See Note)  **The use of PN All Season Spray Oil, when combined with sulfur products, may be phytotoxic in •Cherries, when applied after Green Tip •Peaches/Nectarines when applied after Calyx Red as referenced on a Cooperative Extension Bud Chart.	Aphids (eggs of) Insects (certain other scale) Scale, (Black, Brown Apricot, European Fruit Lecanium, Frosted, Italian Pear, Oleander, Olive [Parlatoria Scale], Parthenolecanium Soft, Putnam, San Jose, Soft Brown) Powdery Mildew Mites (Red Spider)	1 ½ to 4 gals.	NOTE: For plums and prunes, spray only during the delayed dormant period. Oil sensitive varieties of plums (such as, but not limited to Moyer or Queen Ann) may develop dead limbs or scaffolds, which will reduce yield. DO NOT exceed 8 gals. of this product per acre. Use a minimum spray volume of 100 gals./acre.

19/27

**DORMANT OR DELAYED DORMANT\* – DILUTE SPRAYS(cont.)**

**\*DELAYED DORMANT:**

California Only – Delayed dormant is defined as the growth stage up to the first presence of green tissue.

Crop	Pest	PN All Season Spray Oil Per 100 gals. Water	Further Use Instructions
<p>Apples**</p> <p>** The use of PN All Season Spray Oil, when combined with sulfur products, may be phytotoxic when applied after ½" Green Tip.</p>	<p>Aphids Mealybug Mite Eggs (Red, Brown) Mites (Rust) Scale (San Jose)</p>	<p>1 to 4 gals.</p>	<p>For delayed dormant use only. Do not exceed 8 gals. of this product per acre. Use a minimum spray volume of 100 gals./acre</p>
<p>Figs</p>	<p>Mealybug Mites Scale</p>	<p>1 to 3 gals.</p>	<p>DO NOT exceed 6 gals. of this product per acre. Use a minimum spray volume of 100 gals./acre.</p>
<p>Grapes</p>	<p>Mealybug</p>	<p>See Note:</p>	<p>For dormant use only up to bud break. NOTE: Use 2 to 6 gals. in 200 to 300 gals. of water per acre. Do not make more than 2 sequential applications within a 30-day time period.</p>
<p>Kiwis</p>	<p>Scale (Greedy, Latania, Oleander, San Jose)</p>	<p>4 to 6 gals.</p>	<p>Use 4 to 6 gals. of this product in a minimum of 100 gals. of water per acre. Use 6 gals. of this product per 100 gals. of water when scale populations are high.</p>
<p>Pears**</p> <p>** The use of PN All Season Spray Oil, when combined with sulfur products, may be phytotoxic when applied after Blossom Bud.</p>	<p>Aphids (eggs of) Mites (Blister) Mite Eggs (Brown, Red Spider) Pear Psylla Scale (Italian Pear, San Jose) Synergist for Pear Psylla insecticides Pear Psylla Egg Deposition (delay of)</p>	<p>1 to 4 gals.</p>	<p>DO NOT exceed 8 gals. of this product per acre. If two applications of oils are used at dormant and delayed dormant stages, then reduce the oil rates to 1 gal. of this product per 100 gals. of water. Use a minimum spray volume of 100 gals./acre.</p>

**DORMANT OR DELAYED DORMANT\* – DILUTE SPRAYS(cont.)**

**\*DELAYED DORMANT:**

California Only – Delayed dormant is defined as the growth stage up to the first presence of green tissue.

Crop	Pest	PN All Season Spray Oil Per 100 gals. Water	Further Use Instructions
Pecans	Aphid (eggs) Mite (eggs) Scale	2 to 3 gals.	Use 200 gals. of water per acre. Use 2 gals. of this product per 100 gals. of water when trees are in a weakened condition. Apply from late February until buds first break. DO NOT exceed 8 gals. of this product per acre.
Pistachio	Aphids (eggs of) Mites (Red Spider) Scale (Black, Brown Apricot, European Fruit Lecanium, Frosted, Italian Pear, Oleander, Olive [Parlatoria], Parthenolecanium, Soft, Putnam, San Jose, Soft Brown) Powdery Mildew Scale Insects (certain other)	1 ½ to 4 gals.	DO NOT exceed 8 gals. of this product per acre. Use a minimum spray volume of 100 gals./acre.

**DORMANT OR DELAYED DORMANT\* – CONCENTRATE SPRAYS**

**\*DELAYED DORMANT:**

California Only – Delayed dormant is defined as the growth stage up to the first presence of green tissue.

Crop	Pest	PN All Season Spray Oil Per Acre	Further Use Instructions
<p>Almonds Apricots Cherries** Nectarines** Peaches** (See Note)</p> <p>**The use of PN All Season Spray Oil, when combined with sulfur products, may be phytotoxic in</p> <ul style="list-style-type: none"> <li>•Cherries, when applied after Green Tip</li> <li>•Peaches/Nectarines when applied after Calyx Red as referenced on a Cooperative Extension Bud Chart.</li> </ul>	<p>Borer (Peach Twig) Mite Eggs Powdery Mildew Scale (Brown Apricot, Olive [Parlatoria], Parthenolecanium, Soft, San Jose* Walnut)</p>	<p>3 to 6 gals.</p>	<p>For dormant or delayed dormant use only. Apply this product in 25 to 200 gals. of water per acre. Do not apply to trees lacking adequate moisture. NOTE: Do not apply to oil sensitive varieties because phytotoxicity to buds and new wood may result. *If San Jose Scale is a moderate to severe problem, use dilute application.</p>
<p>Apples**</p> <p>** The use of PN All Season Spray Oil, when combined with sulfur products, may be phytotoxic when applied after 1/2" Green Tip.</p>	<p>Aphid (eggs of) Mealybug Mite (European Red, Brown) Scale Eggs (Italian Pear) Scale (San Jose)*</p>	<p>2 to 6 gals.</p>	<p>Apply this product in 25 to 200 gals. of water per acre. NOTE: Do not apply to oil sensitive varieties because phytotoxicity to buds and new wood may result. *If San Jose Scale is a moderate to severe problem, use dilute application.</p>
<p>Bushberries and Caneberries, including blackberry, blueberry, boysenberry, red and black raspberry, evergreen blackberry, kotata blackberry</p>	<p>Mites Powdery Mildew Rust</p>	<p>1 to 2 gals.</p>	<p>Use a minimum of 50 gals. water per acre. Do not exceed 2% v/v solution.</p>
<p>Grapes</p>	<p>Mealybug</p>	<p>2 to 6 gals.</p>	<p>For dormant use only up to bud break. Use a minimum spray volume of 25 gals./acre. Do not make more than 2 sequential applications within a 30-day time period.</p>

**DORMANT OR DELAYED DORMANT\* – CONCENTRATE SPRAYS(cont.)****\*DELAYED DORMANT:**

California Only – Delayed dormant is defined as the growth stage up to the first presence of green tissue.

<b>Crop</b>	<b>Pest</b>	<b>PN All Season Spray Oil Per Acre</b>	<b>Further Use Instructions</b>
Pears** (See Note)  ** The use of PN All Season Spray Oil, when combined with sulfur products, may be phytotoxic when applied after Blossom Bud.	Mealybug Mite Eggs (European Red, Brown) Pear Psylla Pear Psylla Egg Deposition (Delay of) Scale (San Jose*) Synergist for Pear Psylla insecticides	4 to 6 gals.	Apply this product in 40 to 200 gals. of water per acre. NOTE: Do not apply to oil sensitive varieties because phytotoxicity to buds and new wood may result. *If San Jose Scale is a moderate to severe problem, use dilute application.
Pears** (Washington Only)  ** The use of PN All Season Spray Oil, when combined with sulfur products, may be phytotoxic when applied after Blossom Bud.	Pear Psylla	3 to 4 gals. by air	For dormant use only. Apply by air in sufficient water to make a minimum of 10 gals. of dilute spray per acre.
Pecans	Aphid (eggs) Mite (eggs) Scale	6 to 8 gals.	Use 20 to 125 gals. water per acre. Use 6 gals. of product per acre when trees are in a weakened condition. Apply from late February until buds first break.
Pistachio	Borer (Peach Twig) Mite Eggs Powdery Mildew Scale (Brown Apricot, Olive, [Parlatoria], Parthenolecanium, Soft Scale, San Jose*)	3 to 6 gals.	Apply this product in 25 to 200 gals. of water per acre. Do not apply to trees lacking adequate moisture. NOTE: Do not apply to oil sensitive varieties because phytotoxicity to buds and new wood may result. *If San Jose Scale is a moderate to severe problem, use dilute application.

**DORMANT OR DELAYED DORMANT\* – CONCENTRATE SPRAYS(cont.)**

**\*DELAYED DORMANT:**

California Only – Delayed dormant is defined as the growth stage up to the first presence of green tissue.

<b>Crop</b>	<b>Pest</b>	<b>PN All Season Spray Oil Per Acre</b>	<b>Further Use Instructions</b>
Plums, Prunes (See Note)	Aphid Eggs (Plum, Other) Mite Eggs (Brown, European Red) Scale (Black, Brown Apricot, Mealy Plum, Olive, [Parlatoria], San Jose*)	3 to 5 gals.	Apply this product in 40 to 125 gals. of water per acre. NOTE: For plums and prunes, spray only during the delayed dormant period. Oil sensitive varieties of plums (such as, but not limited to Moyer or Queen Ann) may develop dead limbs or scaffolds, which will reduce yield. *If San Jose Scale is a moderate to severe problem, use dilute application.

**DORMANT OR DELAYED DORMANT\* - CONCENTRATE SPRAYS(cont.)**

**\*DELAYED DORMANT:**

California Only - Delayed dormant is defined as the growth stage up to the first presence of green tissue.

Crop	Pest	PN All Season Spray Oil Per Acre	Further Use Instructions
Ornamentals and Shade Trees, including Apple, Birch, Conifers (see NOTE), Dogwood, Flowering Cherry, Flowering Peach, Hawthorn, Holly, Magnolia, Maple, Oak, Privet, Pyracantha, Sycamore	Mites (Spider) Mite Eggs (Spider) Scale (Black, Brown Apricot, Oyster Shell, San Jose*, Soft Brown)	1 to 2 gals.	Use 1 gal. of product per acre for non-deciduous trees. NOTE: Application to Blue Spruce may cause discoloration. Do not use on conifers or ferns not tolerant to oil sprays. For the listed crops, make a test application on a small number of plants to test for oil sensitivity prior to making a commercial application to the entire crop. Allow a sufficient rain event to precede or follow either an herbicide or propargite application before applying this product. Do not spray on freshly sheared or pruned needles, foliage or plant materials. For aerial application use 1 to 2 gals. of this product per acre in a minimum of 10 gals. of water per acre. *If San Jose Scale is a moderate to severe problem, use dilute application.



**CHRISTMAS TREES**

Crop	Pest	PN All Season Spray Oil Per Acre	Further Use Instructions
Christmas Trees** (For Winter Use Only)	Mites, (Spider) Scale (Hard, Immature Stage) Scale (Soft, Immature Stage)	¼ to ¾ gal.	Use ¼ gal. (1 qt.) of product per 100 gals. of water for more sensitive plants. For concentrate spray, apply this product within the specified range of rates in 40 to 100 gals. of water per acre. For dilute spray, apply this product within the specified range of rates in 100 to 400 gals. of water per acre. DO NOT exceed ¾ gal. of this product per acre. Do not spray when freeze is anticipated. Do not apply this product within 15 days of any sulfur application.

\*\*This product removes the glaucous (blue) bloom from evergreens such as Colorado Blue Spruce and Koster Spruce. Before using this product on certain plants, a test spray to determine effects should be performed on sensitive varieties, such as Chamaecypris, Cryptomeria, Douglas Fir, Japanese Holly, Juniper, Red Cedar, Spruce and some true Fir species.

**SEED CROP USES**

Crop	Pest	PN All Season Spray Oil Per Acre	Further Use Instructions
Alfalfa (Seed Alfalfa Only)	Mites, (Spider)	¼ gal.	Apply this product in 20 to 30 gals. of water by ground application or 10 to 15 gals. of water by air with label-specified rates of dicofol.
Grasses grown for seed	Powdery Mildew	¼ to ¾ gal.	Apply this product in 20 to 30 gals. of water by ground application or in 10 to 15 gals. of water by aerial application.

**STORAGE OR DISPOSAL**

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

**PESTICIDE STORAGE:** Keep pesticide in original container. Do not put concentrate or dilute pesticide into food or drink containers. Protect from water contamination during storage and transfer. Contamination with water may make this product unfit for its intended use. Always check emulsification (see Mixing Directions) before use. For help with any spill, leak, fire or exposure involving this material, call day or night 1-800-892-0099.

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

**REFILLABLE CONTAINER (110 gallons or greater):** Refill this container with pesticides only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning the container before refilling is the responsibility of the refiller.

**Container Disposal:** To clean the container before final disposal, empty the remaining contents from this container into the production mix tank. Triple rinse the interior of the container with water by using a suitable hose and nozzle attachment or pressure rinser. Collect and store the rinsate for proper disposal. Then, offer the container for recycling or reconditioning, or puncture and dispose of container in a sanitary landfill.

**NONREFILLABLE CONTAINER (30 gallons):** Do not reuse or refill this container.

**Container Disposal:** 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 ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

Once cleaned, some agricultural plastic pesticide containers can be taken to a container collection site or picked up for recycling. To find the nearest site, contact your chemical dealer or manufacturer, or contact Ag Container Recycling Council (ACRC) at 877-952-2272 or [rperkins@acrecycle.org](mailto:rperkins@acrecycle.org). Or, puncture and dispose of container in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**NONREFILLABLE CONTAINER (5 gallons):** Do not reuse or refill this container.

**Container Disposal:** Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake 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.

Once cleaned, some agricultural plastic pesticide containers can be taken to a container collection site or picked up for recycling. To find the nearest site, contact your chemical dealer or manufacturer, or contact Ag Container Recycling Council (ACRC) at 877-952-2272 or [rperkins@acrecycle.org](mailto:rperkins@acrecycle.org). Or, puncture and dispose of container in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Conditions 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 the product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

**ALL STATEMENTS MADE HEREIN ARE SUBJECT TO APPLICABLE LAW, AND TO THE EXTENT THERE IS ANY INCONSISTENCY OR CONTENTION, APPLICABLE LAW SHALL GOVERN.**

The Directions for Use of the product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of many different factors including, without limitation, manner of use or application, weather, combination with other products, or crop conditions. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Manufacturer and Seller harmless from any claims relating to such factors.

**Seller warrants that this product conforms to the chemical description on the label. EXCEPT FOR THIS WARRANTY, THE PRODUCT IS FURNISHED "AS-IS", AND NEITHER SELLER NOR MANUFACTURER MAKES ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, WITH RESPECT TO THE SELECTION, PURCHASE OR USE OF THIS PRODUCT; SELLER AND MANUFACTURER SPECIFICALLY DISCLAIM ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE BEYOND WHAT IS STATED ON THE LABEL. Buyer and User accept all risks arising from any use of this product, including without limitation, uses contrary to label instructions, or under conditions not reasonably foreseeable to (or beyond the control of) Seller or Manufacturer.**

Neither Manufacturer nor Seller shall be liable for any incidental, consequential or special damages resulting from the use or handling of this product. THE EXCLUSIVE REMEDY OF THE BUYER OR USER, AND THE EXCLUSIVE LIABILITY OF MANUFACTURER AND SELLER, FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THIS PRODUCT, OR, AT THE ELECTION OF MANUFACTURER OR SELLER, THE REPLACEMENT OF THE PRODUCT.

These Conditions of Sale and Limitation of Warranty and Liability shall be interpreted, unless otherwise required by the law of the state of purchase, in accordance with the laws of the State of California, excluding its conflicts of laws rules, and may not be amended by any oral or written agreement.

**TANK MIXES**

**NOTICE:** Tank mixing or use of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of the user, applicator, and/or application advisor.

Read and follow the entire label of each product to be used in the tank mix with this product.

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