



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

5865/38
300/1165
OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

APR 1 2010

Mr. Andrew Chang
Product Regulatory Manager
Wilbur-Ellis Company
Product Regulatory Department
P.O. Box 1286
Fresno, CA 93715

Dear Mr. Chang:

Subject: PN ALL SEASON SPRAY OIL
EPA Registration Number 2935-546
Amendment Application dated December 28, 2009

The proposed amended label submitted on December 28, 2009, is accepted under the provisions of the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, with the stipulation that the changes listed below must be made to that label.

1. On page 1, change "**FUNCIDIDE**" to "**FUNGICIDE**" in the line of text directly below the product name.
2. Insert the paragraph shown below immediately after the last paragraph under "**PERSONAL PROTECTIVE EQUIPMENT (PPE)**" (page 2).

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)].

3. In the "**DIRECTIONS FOR USE**" section, under "**SPRAY DRIFT MANAGEMENT**" (pages 3 and 4), insert a repetition of the paragraph pertaining to temperature inversions (third paragraph for "**Ground Application**") between the current fourth and fifth paragraphs for "**Aerial Application**" on page 4. The temperature inversions paragraph is needed in both places as inversions can affect aerial applications as well as ground applications."
4. In the first sentence of the "**Further Use Instructions**" column of the "Avocados" row of the "**FOLIAR APPLICATIONS – DILUTE SPRAYS (continued)**" table on page 5, change "recommended rate" with "within the specified range of rates". In the second sentence of the same paragraph, replace "it is recommended that a small test area be treated and observed" with "treat and observe a small test area".

5. In the “**Crop**” column of the “**FOLIAR APPLICATIONS – DILUTE SPRAYS (continued)**” table on page 5, replace “Bushberries and Caneberries, such as, but not limited to” with “Bushberries and Caneberries, including”.
6. In the first sentence of the paragraph in the “**Further Use Instructions**” column of the “Citrus: Grapefruit ... hybrids” row of the “**FOLIAR APPLICATIONS – DILUTE SPRAYS (continued)**” table on page 5, change “For best results, apply” to “Apply”. To the end of the same paragraph, insert the text shown below.

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 gallons 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 2000 gallons of spray mix, per acre.

7. In the second sentence of the “**Further Use Instructions**” column of the “Avocados” row of the “**FOLIAR APPLICATIONS – CONCENTRATE SPRAYS (continued)**” table on page 9, replace “it is recommended that a small test area be treated and observed” with “treat and observe a small test area”.
8. In the second sentence of the “**Further Use Instructions**” column of the “Olives” row of the “**FOLIAR APPLICATIONS – CONCENTRATE SPRAYS (continued)**” table on page 10, replace “it is recommended that a small test area be treated and observed” with “treat and observe a small test area”.
9. In the “**Crop**” column of the “**DORMANT – DILUTE SPRAYS**” table on page 13, replace “such as, but not limited to.” with “including”.
10. In the second sentence of the “**Further Use Instructions**” column of the “**CHRISTMAS TREES**” table on page 13, replace “the recommended rate” with “within the specified range of rates”.
11. In the second sentence of the “**Further Use Instructions**” column of “Alfalfa (Seed Alfalfa only)” row of the “**SEED CROP USES**” table on page 13, replace “recommended” with “label-specified”.
12. In the “Triple rinse as follows:” paragraph for the “**NONREFILLABLE CONTAINER (30 gallons):**” (in the “**STORAGE AND DISPOSAL**” box on page 14), insert the following sentence between the current fifth (“Stand the container ... times”) and sixth (“Empty the rinsate ... disposal”) sentences: “Turn the container over onto its other end and tip it back and forth several times.”

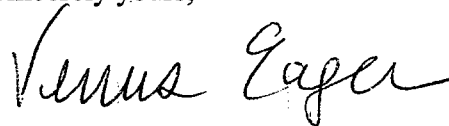
A stamped copy of the label is enclosed for your records.

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, contact Dr. William W. Jacobs by phone at 703-305-6406, by FAX at 703-308-0029, or via e-mail at jacobs.bill@epa.gov.

Sincerely yours,



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

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PN All Season Spray Oil

(INSECTICIDE - FUNGICIDE - MITICIDE)

ACTIVE INGREDIENT	By Wt.
Mineral Oil*.....	99.00%
OTHER INGREDIENTS.....	1.00%
TOTAL.....	100.00%

**ACCEPTED
With COMMENTS
In EPA Letter Dated:
APR 1 2010**

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

Under the Federal Insecticide, Fungicide
and Rodenticide Act, As amended, for the
pesticide Registered under EPA Reg. No.

2935-546

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.

FIRST AID	
If on skin or clothing:	-Take off contaminated clothing. -Rinse skin immediately with plenty of water for 15 to 20 minutes. -Call a poison control center or doctor for treatment advice.
If in eyes:	-Hold eye open and rinse slowly and gently with water for 15 to 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.
If swallowed:	-Call a poison control center or doctor 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.
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 going for treatment. You may also contact 1-800-892-0099 for emergency medical treatment information.	
NOTE TO PHYSICIANS: This product contains petroleum distillates and may pose an aspiration pneumonia hazard.	

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

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.

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.

USER SAFETY REQUIREMENTS

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.

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 REGULATIONS.

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.

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 for use on plants in foliage or the dormant stage.

When using this product in combination with other pesticides as directed on this label, observe appropriate cautions, limitations for the product involved.

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 safety (at least 30 days). If in doubt, spray a portion of one tree previously treated with sulfur, using 1 qt. to 25 gals. water. If sufficient time has not elapsed, burn will show in several days.

Do not use PN All Season Spray Oil when temperatures are above 90° Fahrenheit. When temperatures drop below 32° Fahrenheit (usually nighttime lows), do not spray tree and vine crops until daytime temperatures have warmed to a point above 35° Fahrenheit and are free from moisture due to melting frost or heavy dews. Do not use on foliage closer than 60 days after or 90 days before using captan or folpet products.

IMPORTANT: Applications of oil before and during freeze conditions can increase damage.

Application to trees weakened by disease, drought, drying winds, or high nitrogen applications may result in oil injury.

Do not apply PN All Season Spray Oil as a concentrate spray to Queen Ann variety or other oil sensitive varieties as phytotoxicity to buds and new wood will result.

Observe on all crops and uses - oil effectiveness in dormant and delayed dormant applications is determined by thoroughness of coverage. Concentrate applications may reduce coverage and effectiveness. 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.

Phytotoxicity studies have not been made on all fruit varieties or in all growing areas for concentrate applications. Concentrate spraying is a more exacting technique of spray application than dilute. Concentrate spray equipment must be properly calibrated and operated to obtain desired results.

Multiple concentrate application may cause wood injury. Double applications can occur on the ends of the row during turning - turn off sprayer to avoid multiple applications. Equipment must be capable of giving thorough coverage for maximum insecticidal effectiveness. If San Jose Scale is a moderate to severe problem, use dilute application. Concentrate applications may delay bud development. The following conditions may cause oil injury: cool, damp, or extremely dry weather; broken emulsions and/or faulty application. Follow state recommendations and cautions.

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

Do not apply under conditions involving possible drift to food, forage or other plantings that might be damaged or the crops thereof unfit for sale, use or consumption.

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 apply 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.

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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.

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

Apply quantity of product shown for each listed crop for control of listed insects in sufficient water to make a minimum of 20 gallons dilute spray per acre by air application. Follow timing shown for each crop as shown on container label. **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. With agitator running, start filling spray tank with water. When combining with wettable powder insecticide or fungicide products, add these first when tank is 1/3 filled. Add PN All Season Spray Oil when tank is about 1/2 full and while there is sufficient agitation of the spray to ensure complete emulsification.

FOLIAR APPLICATIONS - DILUTE SPRAYS

Crop	Pest	PN All Season per 100 gals. Water	Further Use Instructions
Almonds, Apricots, Cherries, Nectarines, Peaches, Pistachio, Plums, Prunes	Brown Apricot Scale, Mites, Pacific Spider Mites, Peach Twig Borer, Powdery Mildew, Red Spider Mites, San Jose Scale	1-2 gals.	For Summer stages of pests. DO NOT exceed 4 gals. of PN All Season Spray Oil 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.

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FOLIAR APPLICATIONS - DILUTE SPRAYS (continued)

Crop	Pest	PN All Season per 100 gals. Water	Further Use Instructions
Apples	Codling Moth, Orchard Mites, Powdery Mildew, Rust Mites, San Jose Scale	1/2 to 2 gals.	For Summer use, DO NOT exceed 4 gals. of PN All Season Spray Oil 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.
Avocados	Mites (Avocado brown mite and Pracea mite), Thrips	1/2 to 1 gal.	Apply the recommended rate to achieve optimum coverage in 400 to 3000 gals. per acre is suggested. When applying more than 2% v/v concentration, it is recommended that a small test area be treated and observed. Allow enough time for symptoms to appear before continuing to spray.
Bushberries and Caneberries, such as, but not limited to blackberry, blueberry, boysenberry, red and black raspberry, evergreen blackberry, kotata blackberry	Mites, Powdery Mildew, Rust, Scale	1/2 to 1 1/2 gals.	Using ground equipment, apply spray for optimum coverage and thorough leaf wetness. For use on fungal diseases, increased spray pressures (psi) sufficient to penetrate canopy are recommended.
Citrus: Grapefruit, Lemons, Limes, Tangerines, Tangelos and other citrus hybrids	Black Scale, Purple Scale, Red Scale, Red Spider Mites, Yellow Scale	1 to 1 1/4 gals.	For best results, apply PN All Season Spray Oil during winter and spring months when Red Scale are more easily controlled and trees generally are less reactive to oil sprays. 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 30-60 day intervals. Do not exceed 18 gals. of PN All Season Spray Oil 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.

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FOLIAR APPLICATIONS - DILUTE SPRAYS (continued)

Crop	Pest	PN All Season per 100 gals. Water	Further Use Instructions
Corn (sweet and field)	Aphids, Armyworm, Corn Earworm, Leafminers, Mites, Rootworm, Whitefly	1 to 2 gals.	
Figs	Mealybug, Mites, Scale	1 to 2 gals.	
Grapes	Mealybug	See NOTE	For (Post Harvest), fall spray use only. NOTE: Use 4 to 6 gals. in 200 to 300 gals. of water per acre.
	For summer use on Mites and Powdery Mildew	1/4 to 1 gal.	DO NOT exceed 1 gallon of oil per acre during Summer applications. Do not spray near the time of a sulfur application.
Hops (Not registered for use in California)	Mites	1 to 5 gals.	Apply PN All Season Spray Oil with ground equipment only. Thorough coverage is essential. Use 50 to 200 gals. of dilute spray per acre depending upon plant size. Make applications as needed.
	Powdery Mildew	1 to 5 gals.	Apply PN All Season Spray Oil with ground equipment only. Thorough coverage is essential. 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 shorter interval and/or the higher rate when the conditions for infection are move severe.
	Do not use Propargite (Omite) 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	Black Scale, Purple Scale, Red Scale, Red Spider Mites, Yellow Scale	3/4 gal.	Do not use on Navel oranges after September 1 Do not apply more than 159 gals. of active ingredient or more than 1,500 gals. of spray mix per acre in Florida and Texas. Do Not apply more than 212 gals. of active ingredient or more than 2,000 gals. of spray mix per acre in California.

FOLIAR APPLICATIONS - DILUTE SPRAYS (continued)

Crop	Pest	PN All Season per 100 gals. Water	Further Use Instructions
Olives	Black Scale, Oleander Scale, Olive Scale (Parlatoria Scale), Spider Mites	1 1/2 gals.	Apply PN All Season Spray Oil in the prebloom or in postbloom up to buckshot growth stage.
Olives (California Only)	Black Scale	1 to 1 1/2 gals.	Apply 400 to 800 gals. dilute spray per acre. Make applications between July 1 and August 31. Higher concentrations of PN All Season Spray Oil than noted above may cause phytotoxicity.
Ornamentals and Shade Trees: Apple, Birch, Conifers (see NOTE), Dogwood, Flowering Peach, Flowering Cherry, Hawthorne, Holly, Magnolia, Maple, Oak, Privet, Pyracantha, Sycamores	Black Scale, Brown Apricot Scale, Oyster Shell Scale, San Jose Scale, Soft Brown Scale, Spider Mites and Eggs	1 gal.	NOTE: Conifer applications to blue spruce may cause discoloration. Do not use on conifers or ferns not tolerant to oil sprays. Allow a sufficient rain event before or after a herbicidal or propargite application and an application of oil.
Pears	Codling Moth, Orchard Mites, Red Spider Mites, San Jose Scale and as a synergist for Pear Psylla insecticides	1/2 to 2 gals.	For Summer use, DO NOT exceed 4 gals. PN All Season Spray Oil 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 prebloom applications.
	Italian Pear Scale, San Jose Scale	1 to 1 1/2 gals.	Apply PN All Season Spray Oil to Summer forms of San Jose and Italian Pear Scale.
Strawberries	Botrytis, Leafminers, Mites, Powdery Mildew	1/2 to 3/4 gals.	Spray at no less than 400 psi using ceramic spray nozzles (ALBUS^(R) ATR), lilac color or their equivalent.
Sugar Beets	Aphids, Armyworm, Corn Earworm, Leafminers, Mites, Rootworm, Whitefly	2 gals.	

FOLIAR APPLICATIONS - DILUTE SPRAYS (continued)

Crop	Pest	PN All Season per 100 gals. Water	Further Use Instructions
Valencia Oranges	Black Scale, Purple Scale, Red Scale, Red Spider Mites, Yellow Scale	1 gal.	Do not apply to Valencia oranges after Sept. 1. Do not apply more than 159 gals. of active ingredients or more than 1,500 gals. of spray mix per acre in Florida and Texas. Do not apply more than 212 gals. of active ingredient or more than 2,000 gals. of spray mix per acre in California.
Walnuts	European Fruit Scale, Frosted Scale (summer stages), Red Spider Mites, San Jose Scale, Soft Shelled Scales	1/2 to 1 gal.	Apply PN All Season Spray Oil during the late Spring to mid-Summer only. Do not apply after husk split.

FOLIAR APPLICATIONS - CONCENTRATE SPRAYS

Crop	Pest	PN All Season per Acre	Further Use Instructions
Almonds, Apricots, Cherries, Nectarines, Peaches, Pistachio, Plums, Prunes	Brown Mite, European Red Mite, Pacific Spider Mite, Peach Twig Borer, Powdery Mildew, Two-Spotted Spider Mite	1 to 3 gals.	For Summer use with concentrate sprayers. Apply PN All Season Spray Oil in 25 to 200 gals. water per acre. Do not apply to trees lacking adequate moisture. 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 prebloom application.
Apples	Codling Moth, Orchard Mites, Powdery Mildew, San Jose Scale	1 to 3 gals.	For Summer use with concentrate sprayers. Apply PN All Season Spray Oil in 80 to 200 gals. water 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 prebloom applications.

FOLIAR APPLICATIONS - CONCENTRATE SPRAYS (continued)

Crop	Pest	PN All Season per Acre	Further Use Instructions
Avocados	Mites (Avocado brown mite and Pracea mite), Thrips	4 to 15 gals.	Use in minimum of 50 to 100 gallons of water. When the application of oil is more than 2% v/v concentration, it is recommended that a small test area be treated and observed. Allow enough time for symptoms to appear before continuing to spray. For Aerial applications use 1 to 6 gallons of oil per acre in 20 gallons of water per acre.
Citrus: Grapefruit, Lemons, Limes, Oranges (Navel and Valencia), Tangerines and Tangelos and other citrus hybrids	Citrus Red Mites	5 to 15 gals.	Apply PN All Season Spray Oil 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. Observe all label notes, regarding the use of spray oils on citrus. Use only equipment capable of applying concentrate sprays.
Grapes	Mealybug	1/4 to 1 gal.	
Grapes (For Summer use)	Mites and Powdery Mildew	1/4 to 1 gal.	Do not exceed 1 gal. of PN All Season Spray Oil per acre during Summer applications. Do not spray near the time of a sulfur application.

FOLIAR APPLICATIONS - CONCENTRATE SPRAYS (continued)

Crop	Pest	PN All Season per Acre	Further Use Instructions
Olives	Mites, Scale	4 to 8 gals.	Use in minimum of 50 to 100 gallons of water. When the application of oil is more than 2% v/v concentration, it is recommended that a small test area be treated and observed. Allow enough time for symptoms to appear before continuing to spray. For Aerial applications use 1 to 6 gallons of oil per acre in 20 gallons of water per acre.
Pears	Codling Moth, Orchard Mites, San Jose Scale and as a synergist for Pear Psylla insecticide	1 to 3 gals.	For Summer use with concentrate sprayers. Apply PN All Season Spray Oil in 80 to 200 gals. water 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 prebloom applications.

DORMANT OR DELAYED DORMANT - DILUTE SPRAYS

Crop	Pest	PN All Season per 100 gals. Water	Further Use Instructions
Almonds, Apricots, Cherries, Nectarines, Peaches, Pistachio, Plums, Prunes (See NOTE)	Aphids (eggs of), Black Scale, Brown Apricot Scale, European Fruit Lecanium, Frosted Scale, Italian Pear Scale, Oleander Scale, Olive Scale (Parlatoria Scale), Parthenolecanium Soft Scale, Powdery Mildew, Putnam Scale, Red spider Mites, San Jose Scale, Scale Insects (certain other), Soft Brown Scale	1 1/2 to 4 gals.	For dormant or delayed dormant use only. NOTE: For plums and prunes, spray only during the delayed dormant period. Oil sensitive varieties (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 PN All Season Spray Oil per acre.
Apples	Aphids, Mealybug, Red and Brown Mite eggs, Rust Mites, San Jose Scale	1 to 4 gals.	For delayed dormant use only. Do Not exceed 8 gals. of PN All Season Spray Oil per acre.

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DORMANT OR DELAYED DORMANT - DILUTE SPRAYS (continued)

Crop	Pest	PN All Season per 100 gals. Water	Further Use Instructions
Figs	Mealybug, Mites, Scale	1 to 3 gals.	For dormant and delayed dormant use only.
Grapes	Mealybug	See NOTE	For dormant use only up to bud break. NOTE: Use 4 to 6 gals. in 200 to 300 gals. of water per acre.
Kiwis	Greedy Scale, Latania Scale, Oleander Scale, San Jose Scale	4 to 6 gals.	Use 4 to 6 gals. of oil in a minimum of 100 gals. of water per acre. Use higher rate when scale populations are high.
Pears	Aphids (eggs of), Blister Mite, Italian Pear Scale, Pear Psylla, Red Spider and Brown Mite Eggs, San Jose Scale and a synergist for Pear Psylla insecticides and delay of pear psylla egg deposition	1 to 4 gals.	For dormant or delayed dormant use only. DO NOT exceed 8 gals. of PN All Season Spray Oil per acre. If two applications of oils are used at dormant and delayed dormant stages, then reduce the oil rates to lower labeled amounts.
Pecans	Aphid (eggs), Mite (eggs), Scale	2 to 3 gals.	Use minimum of 200 gals. of water per acre. Use the lower rate when trees are in a weakened condition. Apply from late February until buds first break.

DORMANT OR DELAYED DORMANT - CONCENTRATE SPRAYS

Crop	Pest	PN All Season per Acre	Further Use Instructions
Almonds, Apricots, Cherries, Nectarines, Peaches (see NOTE), Pistachio	Brown Apricot Scale, Mite Eggs, Olive Scale (Parlatoria Scale), Parthenolecanium Soft Scale, Peach Twig Borer, Powdery Mildew, San Jose Scale, Walnut Scale	3 to 6 gals	For dormant or delayed dormant use only. Apply PN All Season Spray Oil 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.
Apples	Aphid (eggs of), European Red and Brown Mite, Italian Pear Scale, (eggs of), Mealybug, San Jose Scale	2 to 6 gals.	For dormant or delayed dormant use only. Apply PN All Season Spray Oil 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.

DORMANT OR DELAYED DORMANT - CONCENTRATE SPRAYS (continued)

Crop	Pest	PN All Season per Acre	Further Use Instructions
Bushberries and Caneberries such as, but not limited to, blackberry, blueberry, boysenberry, red and black raspberry, evergreen blackberry, kotat blackberry	Mites, Powdery Mildew, Rust	1 to 2 gals.	Use a minimum of 50 gallons water per acre. Do not exceed 2% solution.
Grapes	Mealybug	1 to 3 gals.	For dormant use only up to bud break. Use a minimum of 25 gallons of water per acre
Pears (see NOTE)	European Red and Brown Mite (eggs of), Mealybug, Pear Psylla, San Jose Scale and a synergist for Pear Psylla insecticides and delay of Pear Psylla egg deposition	4 to 6 gals.	For dormant or delayed dormant use only. Apply PN All Season Spray Oil 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.
Pears (Washington Only)	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 a minimum of 20 to 125 gals. water per acre. Use the lower rate when trees are in a weakened condition. Apply from late February until buds first break.
Plums, Prunes (sse NOTE)	Aphid Eggs, Black Scale, Brown Apricot Scale, Brown mite Eggs, European Red Mite (eggs of), Mealy Plum Olive Scale (Parlatoria Scale), Plum Aphid Eggs, San Jose Scale	3 to 5 gals.	Apply PN All Season Spray Oil in 40 to 125 gals. of water per acre. NOTE: For Plums and Prunes, spray only during the delayed dormant period. Oil sensitive varieties (such as, but not limited to Moyer or Queen Ann) may develop dead limbs or scaffolds, which will reduce yield.

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DORMANT - DILUTE SPRAYS

Crop	Pest	PN All Season per 100 gals. Water	Further Use Instructions
Ornamentals and Shade Trees such as, but not limited to: Apple, Birch, Conifers (see NOTE), Dogwood, Flowering Cherry, Flowering Peach, Hawthorne, Holly, Magnolia, Maple, Oak, Privet, Pyracantha, Sycamores	Black Scale, Brown Apricot Scale, Oyster Shell Scale, San Jose Scale, Soft Brown Scale, Spider Mites and Eggs	1 to 2 gals.	Use the low rate for non-deciduous varieties. NOTE: Conifer application to Blue Spruce may cause discoloration. Do not use on conifers or ferns not tolerant to oil sprays. Allow sufficient rain event before/after a herbicidal or propargite application and an application of oil. Do not spray on freshly sheared or pruned needles, foliage or plant materials. For aerial application use 1 to 2 gals. of PN All Season Spray Oil per acre in a minimum of 20 gals. of water per acre.

CHRISTMAS TREES

Crop	Pest	PN All Season per Acre	Further Use Instructions
Christmas Trees* (For Winter use only)	Scale [(soft and hard), (immature stage)], Spider Mites	1/4 to 3/4 gals.	Use lower concentrations for more sensitive plants. Apply the recommended rate of PN All Season Spray Oil in 40 to 100 gals. of spray per acre. Do not spray when freeze is anticipated.

*This product removes the glaucous (blue) bloom from such evergreens 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 Chamaecyparis, Cryptomeria, Douglas Fir, Japanese Holly, Juniper, Red Cedar, Spruce and some true Fir species.

SEED CROP USES

Crop	Pest	PN All Season per Acre	Further Use Instructions
Alfalfa (Seed Alfalfa Only)	Spider Mites	1/4 gals.	For use on seed alfalfa only. Apply in 20 to 30 gals. of water by ground application or 10 to 15 gals. of water by air with recommended rates of Kelthane.
Grasses grown for seed	Powdery Mildew	1/4 to 3/4 gals.	Apply PN All Season Spray Oil in 20 to 30 gals. of water by ground application or 10 to 15 gals. of water by air.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Keep pesticide in original container. Do not put concentrate or dilute 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 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. 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.

NONREFILLABLE CONTAINER (5 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 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.

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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 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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