



# NARROW RANGE 415 SPRAY OIL

READ ENTIRE CONTAINER LABEL BEFORE USING THIS PRODUCT

ACTIVE INGREDIENT:	BY WT.
Petroleum Oil . . . . .	98.0%
INERT INGREDIENTS . . . . .	2.0%
TOTAL	100.0%
Unulfonated Residue:	
(ASTM D-483) . . . . .	92.0%
Petroleum Oil Classification: unclassified	
EPA Reg. No. 11656-97	EPA Est. No. 11656-CA-02

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

**PRECAUTIONARY STATEMENTS**  
**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**  
CAUTION: Harmful if swallowed or absorbed through skin or inhaled. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

**FIRST AID**  
**IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Do not give any liquid to the person. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything by mouth to an unconscious person.  
**IF IN EYES:** Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.  
**IF ON SKIN:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.  
**IF 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.

**NOTE TO PHYSICIAN:** Contains petroleum distillate - vomiting may cause aspiration pneumonia. In case of poisoning, contact your Poison Control Center at 1-800-222-1222.

**PERSONAL PROTECTIVE EQUIPMENT**  
**Applicators and other handlers must wear:** Long-sleeved shirt and long pants, shoes plus socks, chemical-resistant gloves (such as barrier laminate, nitrile rubber, neoprene rubber, or viton). Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

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.

**IMPORTANT:** When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment breakdown.

**USER SAFETY RECOMMENDATIONS**  
Users should:  
-Wash hands thoroughly 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.

NET WEIGHT \_\_\_\_\_ GALLONS  
Manufactured for:  
Western Farm Service, Inc.  
P.O. Box 1168, Fresno, CA 93715  
FIRST CHOICE is a registered trademark of Western Farm Service, Inc.  
Nutra-Phos and Nutra-Spray are registered trademarks of Pace International, LLC

**ENVIRONMENTAL HAZARDS**  
This product is toxic to fish. Do not apply directly to water or areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters. Apply product only as specified on the label.

**PHYSICAL/CHEMICAL HAZARDS**  
Do not weld, heat or drill this container. Residues may ignite with explosive violence if heated sufficiently.

**STORAGE & DISPOSAL**  
Do not contaminate water, food or feed by storage or disposal.  
**STORAGE:** Keep out of reach of children and animals. Keep pesticide in original container. Store in a cool, dry place and avoid excess heat. Do not put concentrate or dilute into food or drink containers.  
**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site, or at an approved waste disposal facility.  
**CONTAINER DISPOSAL:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities.

**DIRECTIONS FOR USE**  
It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product through any type of irrigation system. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulations.

**AGRICULTURAL USE REQUIREMENTS**  
Use this product only in accordance with its labeling and 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 has been treated, such as plants, soil, or water, is: coveralls, shoes plus socks, and chemical-resistant gloves (such as barrier laminate, nitrile rubber, neoprene rubber or viton).

**CONDITIONS OF SALE**  
Seller warrants that this product conforms to its chemical description and is reasonably fit for the purpose stated on the label when used in accordance with the directions and instructions specified on the label under normal conditions of use, but neither this warranty nor any other warranty of merchantability of fitness for a particular purpose express or implied, extends to the use of this product, contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.

**NOTE: UNLESS SPECIFICALLY INDICATED OTHERWISE, THIS PRODUCT IS TO BE DILUTED WITH WATER BEFORE APPLICATION. DILUTION RATES ARE INDICATED BELOW AND ARE TO BE INTERPRETED AS GALLONS OF FIRST CHOICE NARROW RANGE 415 SPRAY OIL PER 100 GALLONS OF WATER.**

**GENERAL USE DIRECTIONS**  
FIRST CHOICE NARROW RANGE 415 SPRAY OIL is a straight cut, narrow range petroleum oil designed specifically for agricultural use on citrus and other crops including apples, pears, grapes, apricots, almonds, avocados, cherries, kiwi, nectarines, peaches, pistachios, plums, prunes, walnuts and ornamentals.  
APPLICATIONS: FIRST CHOICE NARROW RANGE 415 SPRAY OIL is formulated as a "fast break" spray oil and will not stay in solution unless agitated constantly. Keep agitator running at all times during spray operations. Apply so as to give total coverage to all parts of crop. Total coverage of all parts of trees is essential for optimum results. Apply as directed to thoroughly drench all limbs, twigs, and leaves without significant runoff. For smaller, immature trees and vines, spray solution quantities should be reduced proportionately.  
DILUTION: Be sure tank is clean. Fill spray tank with 1/2 the required amount of water. Start agitator. Add total amount of spray oil. Continue to agitate while adding balance of water and while spraying. DO NOT USE THIS MATERIAL IF IT DOES NOT EMULSIFY.

**GENERAL USE DIRECTIONS (CONTINUED)**  
GROUND APPLICATION: Dilute recommended dosage in 50-3,000 gallons of water per acre.  
AERIAL APPLICATION: Dilute FIRST CHOICE NARROW RANGE 415 SPRAY OIL at the recommended dosage in 10-30 gallons of water per acre for thorough coverage (consult with local Extension Service or agricultural chemical authority for dilution and/or combinations with currently registered pesticides). Use lower rates on susceptible varieties or young trees. In case of conflicting directions, refer to the specific crop instructions.  
COMPATIBILITY: FIRST CHOICE NARROW RANGE 415 SPRAY OIL may be tank mixed with insecticides, fungicides or foliar nutrients. To assure the compatibility of tank mixtures, mix the correct proportions of the tank mix components in a small container. After thorough mixing, allow the mixture to stand for 5 minutes. If the combination remains mixed or can be readily remixed, the tank mixture is compatible.  
CHEMIGATION: DO NOT APPLY this product through any type of irrigation system.  
DO NOT APPLY this product within 30 days before or after applications of sulfur or captan.  
DO NOT APPLY to trees weakened by disease, drought, drying winds or high nitrogen applications.  
DO NOT USE FIRST CHOICE NARROW RANGE 415 SPRAY OIL when temperatures are above 90°F. when making low volume application or above 95°F when making dilute application.

**CROP RECOMMENDATIONS**  
Apply when pests appear. Adjust dosage with recommended range according to pest infestation, crop canopy size, crop conditions, etc. FIRST CHOICE NARROW RANGE 415 SPRAY OIL may be reapplied if pest pressure continues.  
**LEMONS:** Red Scale, Yellow Scale, Purple Scale, Black Scale, Brown Soft Scale, Citrus Red Mite, Citrus Bud Mite: 1.2 to 1.4 gals/100 gallons of water with thorough coverage. In Central and Southern California, apply in late spring and late summer through December. In Coastal California, apply from March through early November. The higher dosage is recommended for heavier infestations in early fall. To aid in control of Red, Black, Yellow, or Purple Scale add a suitably labeled insecticide. Care should be taken in combining oil sprays with certain miticides and insecticides due to possible increased phytotoxicity when applied over foliage. See Agricultural Extension Service for recommendations on special combinations. See notes below for Spreader-sticker, Low Volume, and additional Black Scale uses.  
**NAVEL ORANGES:** Citrus Red Mite, Red Scale, Yellow Scale, Purple Scale: 0.6 to 0.8 gallons FIRST CHOICE NARROW RANGE 415 SPRAY OIL per 100 gallons of water with full coverage. Sevin (0.4 lb. 80% WP per 100 gallons) or 1.0 lbs. Malathion 25% WP per 100 gallons may be added if needed for scale control. Do not use FIRST CHOICE NARROW RANGE 415 SPRAY OIL on Navel Oranges after September 1.

**ORANGES, GRAPEFRUIT, LIMES AND OTHER CITRUS spp.:** Red Scale, Yellow Scale, Purple Scale, Black Scale, Citrocola Scale, Brown Soft Scale, Citrus Red Mite, Pacific Spider Mite, Two-spotted Spider Mite: 1.2 to 1.4 gals./100 with thorough coverage late summer and fall (Central California/Southern CA including Oxnard Plains) July through September. Highest dosage only for July or August applications. To aid in control of Red, Yellow, Black, or Purple Scale, add a suitably labeled insecticide. Care should be taken in combining oil sprays with certain miticides and insecticides due to possible increased phytotoxicity when applied over foliage. See Agricultural Extension Service for recommendations on special combinations.  
**LOW VOLUME APPLICATIONS:** Oranges and Grapefruit. Citrus Red Mite: 12 to 15 gallons FIRST CHOICE NARROW RANGE 415 SPRAY OIL per acre in 50 to 100 gallons of water.

**APRICOTS, ALMONDS, CHERRIES, NECTARINES, PEACHES, PISTACHIOS, PLUMS, PRUNES:** Summer use for Red Mite: 0.7 gallons/100 gallons of water. Summer stage (post harvest) of Brown Apricot Scale, San Jose Scale: 1 to 1.5 gallons/100 gallons of water. Some varieties may be sensitive to oil and organophosphate combinations.  
**Dormant or Delayed Dormant:** San Jose Scale, Parlatoria Scale, Walnut Scale, Brown Apricot Scale, Black Scale, Mite Eggs, Aphid Eggs: 1.5 to 2 gallons/100 gallons of water.  
**Delayed Dormant:** Leaf Roller Eggs: 2.5 gallons/100 gallons of water.  
NOTE: On prune trees sensitive to oil, application should be made in the period between February 15 and the popcorn stage.

**APPLES AND PEARS:** Summer application (post harvest) Red Mites: 0.7 gallons/100 gallons of water. Immature summer stage (post harvest) of San Jose and Italian Pear Scale, use 1 to 1.5 gallons/100 gallons of water. General use as an aid in adherence of insoluble insecticides. Use one quart to 100 gallons of water.  
**Dormant and Delayed Dormant:** San Jose Scale, Italian Pear Scale: 1.5 to 2 gallons/100 gallons of water.

**Delayed Dormant:** Leaf Roller Eggs: 2.5 gallons/100 gallons of water.  
Pear Psylla: 1 gallon/100 gallons of water.  
**GRAPES (DORMANT):** Mealy Bug: Use 1 to 2 gallons of FIRST CHOICE NARROW RANGE 415 SPRAY OIL per 100 gallons of water with thorough coverage. A tank mix using an insecticide registered for use on grapes for mealy bug improves control.

**HOPS: NOT REGISTERED FOR USE IN CA.** Mites and powdery mildew: For powdery mildew, use 1-2 gallons FIRST CHOICE NARROW RANGE 415 SPRAY OIL per 100 gallons of water. Start sprays at early leaf stage. Continue sprays on a 10-14 day interval. For mite control, use same spray regime as powdery mildew. Stop sprays at burr development. Apply with ground equipment only.

**KIWI (DORMANT):** Latania scale, Oleander Scale, San Jose Scale: Apply 4 to 6 gallons FIRST CHOICE NARROW RANGE 415 SPRAY OIL per treated area. Apply in a minimum of 100 gallons spray volume per acre. Do not apply after bud break. Use the higher rate where scale populations are high.

**LATE SPRING-SUMMER:** Scale crawlers and Leafrollers: Apply 1 gallon per 100 gallons of water as a dilute spray only. Do not apply during period of fruit sensitivity (10 days after flowering to the third week in July). Do not use spray additives.

**AVOCADOS:** For Mites and Thrips - use 1 to 4 gallons of oil per 100 gallons of water in a dilute spray of 400 to 3,000 gallons per acre. Good coverage is required to be effective. Do not exceed 30 gallons of oil per acre per application. For concentrate spray, use 4 to 15 gallons of oil per acre in 50 to 100 gallons of spray mixture or in enough water for adequate coverage.

**AVOCADOS (Continued):** 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.

**OLIVES:** Parlatoria scale: Use 1.5 gallons FIRST CHOICE NARROW RANGE 415 SPRAY OIL per 100 gallons of water. Apply prebloom or post bloom up to buckshot stage.

**WALNUTS: Delayed Dormant:** Brown Apricot Scale, Black San Jose Scale, Olive Scale, Oleander Scale, Frosted Scale, Italian Pear Scale, European Fruit Lecanium, Putnam Scale, Brown Soft Scale, Certain Scale Insects, eggs of aphids, Red Spider Mites; 1-1/2 to 2 gallons/100 gallons of water. **Summer Use - Red Spider Mites:** 3 to 4 quarts/100 gallons of water. Summer stage of Brown Apricot Scale, San Jose Scale: 1 gallon/100 gallons of water. This treatment should only be used on trees that have not suffered from lack of moisture at any time during the growing season. Further, oils should not be applied to orchards where soil moisture is low. Do not apply after husk split.

**SHADE TREES, SHRUBS, ORNAMENTALS, FLOWER AND FOLIAGE PLANTS:** Shade Trees\* and Shrubs including Conifers, Deciduous Broadleaf Evergreens & Woody Ornamentals: Aphids, Adelgids, Bark Beetles, Boxelder Bugs, Eriophyid Mites, Foliage Feeding Caterpillar, Gall Mites, Lace Bug, Leaf Beetle Larvae, Leafhoppers, Leafminers, Mealybug, Psyllids (immature), Sawfly (larvae), Scales (immature), Sharpshooters, Spider Mites, True Bugs (immature), Whiteflies (immature): **Winter Dormant Period** as needed - 2 to 4 gallons of oil per 100 gallons water.

**Summer (Foliar or Cover),** as needed - 1 to 3 gallons of oil per 100 gallons water.  
**ORNAMENTAL TREES\*, SHRUBS ALONG CITY STREETS, OTHER RIGHTS-OF-WAY INCLUDING CONIFERS, DECIDUOUS AND BROADLEAF EVERGREENS:** Aphids, Adelgids, Bark Beetles, Boxelder Bugs, Eriophyid Mites, Foliage Feeding Caterpillar, Gall Mites, Lace Bug, Leaf Beetle Larvae, Leafhoppers, Leafminer, Mealybug, Psyllids (immature), Sawfly (larvae), Scales (immature), Sharpshooters, Spider Mites, True Bugs (immature), Whiteflies (immature): **Winter Dormant Period** as needed - 2 to 4 gallons of oil per 100 gallons water. **Summer (Foliar or Cover),** as needed - 1 to 3 gallons of oil per 100 gallons water.

**FLOWERING AND FOLIAGE PLANTS INCLUDING ROSES AND OTHER FLOWERING SHRUBS:** Aphids, Adelgids, Bark Beetles, Boxelder Bugs, Eriophyid Mites, Foliage feeding Caterpillars, Gall Mites, Lace Bug, Leaf Beetle Larvae, Leafhoppers, Leafminer, Mealybug, Psyllids (immature), Sawfly (larvae), Scales (immature), Sharpshooters, Spider Mites, True Bugs (immature), Whiteflies (immature): **Winter Dormant Period** as needed - 2 to 3 gallons of oil per 100 gallons water. **Summer (Foliar or Cover),** as needed - 1 to 2 gallons of oil per 100 gallons water.

**FOLIAGE ORNAMENTALS & BEDDING PLANTS:** Aphids, Adelgids, Bark Beetles, Boxelder Bugs, Eriophyid Mites, Foliage Feeding Caterpillars, Gall Mites, Lace Bug, Leaf Beetle Larvae, Leafhoppers, Leafminer, Mealybug, Psyllids (immature), Sawfly (larvae), Scales (immature), Sharpshooters, Spider Mites, True Bugs (immature), Whiteflies (immature): **Winter Dormant Period** as needed - 2 to 3 gallons of oil per 100 gallons of water. **Summer (Foliar or Cover),** as needed - 1 to 2 gallons of oil per gallons water.

\*Oil removes the glaucous (blue) bloom from such evergreens as Colorado Blue Spruce and Koster Spruce. Always use lower dosage or test spray oil sensitive plants such as Cryptomeria, Smoke tree, Chamaecyparis, Juniper, Japanese Holly and Spruce. Tendency toward sensitivity: Red Cedar and Douglas Fir.

**CAUTION:** Spray no more than 4 times during the growing season; use a 2 week minimum application interval. Do not spray when buds have fully opened and shoot elongation is occurring. Do not spray when there is obvious moisture deficit in leaves, or the plant is under stress. For fall dormant applications, reduce rate to 2 gallons of oil per 100 gallons water. In the state of California only, limit use to: American Red Oak, Japanese Black Pine, Dogwood, Weeping Cherry, Cornelian Cherry, Crabapple, Norway Maple, Purple Leaf Plum. Keep away from open blooms - bleaching and spotting has been observed with the open blooms of certain plants.

RATES PER ACRE	Gallons of Dilute Spray of Recommended Dosage	Gallons of Oil Per Acre By Concentrate Sprayer <sup>(1)</sup>
<b>CROP</b>		
Citrus	400 to 3000	12 to 20
Stone Fruit & Almonds & Pistachios		
Apples & Pears	250 to 800	4 to 6 <sup>(2)</sup>
Olives	400 to 3000	4 to 6 <sup>(2)</sup>
Walnuts	400 to 3000	4 to 6
Grapes	50 to 300	1/2 to 2
Hops	50 to 150	1 to 3
Kiwi	100 to 300	4 to 6
Avocado	400 to 3000	4 to 15

(1) Application in 50 to 100 gallons of spray mixture per acre is preferred but not required depending on the spray equipment used.

(2) For shipping fruit, use the 6 gallon rate no later than 6 weeks before harvest: otherwise use 4 gallons/acre no later than 4 weeks before harvest or 2 gallons/acre no later than 1 week before harvest.

**Nutritional Powders:** FIRST CHOICE NARROW RANGE 415 SPRAY OIL is compatible with Nutra-Phos® and Nutra-Spray® foliar nutrient powders which may be used at the rate of 1 1/2 to 3 lbs. per 100 gallons of spray solution.

**Note: Being an oil spray, application should NOT be made:**  
1 When the soil (especially the sub-soil) is relatively dry or when trees are under stress.  
2 Immediately prior to, during, or following an unusually cold weather period.  
3 When the temperature is above 95 degrees Fahrenheit.  
4 Do not use with captan, dichloro, glydoin, Karathane, sulfur or lime sulfur. Do not use oil 30 days before or after sulfur or captan products.  
5 Do not apply over fruit of apricots, cherries, peaches, plums, prunes, apples or pears in excess of 0.2%  
6 Do not apply copper products for 30 days before or after oil application on citrus.  
7 Do not apply during low humidity, i.e. Santa Ana winds in Southern California, or when temperature exceeds 93 degrees for lemons.