



PureSpray™

GREEN CONCENTRATE

For Organic Gardening

**KILLS INSECTS AND
MOLDS YEAR-ROUND**
(subject to limitations of extreme temperatures)



Indoor and Outdoor Residential Application

For Dormant and Growing Season Applications
(subject to limitations of extreme temperatures)



Active Ingredient:	By Weight
Mineral Oil*.....	98.00%
Inert Ingredients:.....	2.00%
Total:	100.00%
Unsulfonated Residue of the Oil.....	99.00% (minimum)
Aromatic Composition by ASTM D2140.....	0.00%

*Contains Petroleum Distillates

For Residential Use Only
KEEP OUT OF REACH OF CHILDREN

NET CONTENTS: 1 QT (0.95 L)

617399-A/2

CAUTION

See back panel for additional precautionary statements.

PureSpray™ GREEN CONCENTRATE

INDOOR AND OUTDOOR APPLICATION
TO THE TYPES OF FRUITS, VEGETABLES,
AND FLOWERS LISTED ON THIS LABEL

For Organic
Gardening



Kills insects and molds year-round

(subject to limitations of extreme temperatures)

*Can be applied up to harvest for most crops listed**

For use on: Flowers, Garden Vegetables and Herbs, Fruits Trees (as listed on the label).

See Inside Booklet for Precautionary Statements and Directions for Use

617399-4B/2



*Does not include Table Grapes.

US Patent # 6,515,031 / 6,673,360

MADE IN CANADA (MAY CONTAIN IMPORTED PARTS) FOR:
Petro-Canada Lubricants Inc., a Suncor Energy Business
2310 Lakeshore Road West
Mississauga, Ontario L5J 1K2 Canada

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PEEL HERE >

ALL SEASON HORTICULTURAL SPRAY OIL

(subject to limitations of extreme temperature)

Kills the types of insects and molds listed on this label.

For Use On: Flowers, Garden Vegetables and Herbs, Fruit Trees (as listed on the label)

Additional information contained inside booklet on application, precautionary statements, storage and disposal.

Apply right up until harvest, except for table grapes and coffee.

- Active ingredient contains less than 1% sulfonated residue
- Kills insects year-round (subject to limitations of extreme temperatures).
- For dormant and growing season applications (subject to limitations of extreme temperatures).
- Kills insects through suffocation.
- Insects do not develop resistance.
- Controls all life stages, including eggs, of the insects listed on this label.
- One quart PureSpray™ Green Concentrate makes up to 25 gallons diluted or finished spray
- This product controls Adelgids, Aphids, Lace Bugs, Leafhoppers, Leafminers (larvae), Mealybugs, Mites, Plant Bugs, Psyllids, Sawfly larvae, Scales, Thrips, Whitefly and eggs of Aphids, Mites and caterpillars (on landscape, trees, plants, shrubs and flowering plants, houseplants, herbs & vegetables, fruit and nut trees, and home greenhouse plants), as listed on this label.

FOR RESIDENTIAL USE ONLY

ACTIVE INGREDIENT:	BY WEIGHT
Mineral Oil*	98.00%
INERT INGREDIENTS	2.00%
TOTAL	100.00%
Unsulfonated Residue of the Oil	99.00% (minimum)
Aromatic Composition by ASTM D2140	0.00%

*Contains Petroleum Distillates

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

See Below For Additional Precautionary Statements.

PureSpray Green Concentrate is a concentrate and must be mixed with water according to the mixing directions inside this booklet. Follow the specified dilution rate for the particular plant and pest being sprayed.

READ DIRECTIONS THOROUGHLY BEFORE USING.

PRECAUTIONARY STATEMENTS

Hazards to Humans & Domestic Animals

CAUTION

Harmful if swallowed or absorbed through the skin. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals. This product is a potential skin sensitizer. Avoid contact with eyes, skin or clothing. Wash hands thoroughly with soap and water after handling, before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse. Wear gloves made of any water-proof material and shoes plus socks. Wash clothing before reuse using detergent and hot water.

FIRST AID

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

If swallowed	<ul style="list-style-type: none"> • Immediately call a poison control center or doctor for treatment advice. • Do not induce vomiting unless told to 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 on skin or clothing:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: PETRO-CANADA: 403-296-3000, CANUTEC TRANSPORTATION: 613-996-6666, OR POISON CONTROL CENTER.

NOTE TO PHYSICIAN: Contains Petroleum distillate. Do not induce vomiting since vomiting may induce aspiration pneumonia.

ENVIRONMENTAL HAZARDS

This product is toxic to fish. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid runoff to water bodies or drainage systems.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product through any type of irrigation system. Do not enter or allow others to enter treated areas until sprays have dried.

USE PRECAUTIONS

- Keep the oil container tightly closed in storage to prevent entry of water. All horticultural oils interfere with or slow plant transpiration and respiration during the period of evaporation. Therefore, do not spray plants under stress (i.e., drought, disease) and do not apply during periods of prolonged high temperature combined with high relative humidity.
- This product should be applied in the early evening and early morning.
- Do not spray when temperature is above 95° F or when approaching freezing.
- Do not spray wet plants.
- The target pest and plant must be completely covered with the spray solution to be effective.
- Do not exceed the maximum rates or apply more often than specified in this label.
- Certain plant species may be sensitive to oil. A small number of plants must be test sprayed prior to general spraying.
- Use caution on open blooms - bleaching and spotting have been observed on open blooms.
- This product may be used up to day of harvest except for Table Grapes and Coffee
- The effectiveness of PureSpray Green Concentrate may be reduced if prolonged temperatures below 50° F are experienced. This is due to the reduced respiration rate of the insect at these lower temperatures.
- Protect painted surfaces, carpet and furnishings from overspray. May cause discoloration.
- Due to variable differences in response to a treatment of PureSpray Green Concentrate at the specific rate, conduct a small test on 1 or 2 plants of the specific variety to be treated.

MIXING DIRECTIONS FOR SPRAY EQUIPMENT OTHER THAN HOSE END SPRAYER

Make sure the spray equipment to be used is clean, dry and odor free.

1. Fill the spray tank or bottle 1/2 full with water.
2. SHAKE THE CONTAINER OF PureSpray Green Concentrate VIGOROUSLY PRIOR TO MEASURING OUT THE DESIRED AMOUNT.
3. Add the appropriate amount of PureSpray Green Concentrate to the water and shake.
4. Fill the remaining 1/2 of the spray tank or bottle with water and shake again. The solution should look milky, if it does not, do not use it.
5. During application shake the solution frequently. Do not apply to plants if the solution has been sitting for more than 10 minutes without shaking it before resuming application.
6. Do not premix PureSpray Green Concentrate and water. Mix just enough for immediate use.
7. 2 tablespoons = 1 fluid ounce. 4 tablespoons = 1/4 cup = 2 fluid ounces.

DIRECTIONS FOR USE WHEN APPLYING WITH A HOSE END SPRAYER

- This hose end sprayer must only be used with PureSpray Green Concentrate. Use of this sprayer with other pesticides may lead to plant damage due to product incompatibility.
- Do not use this attachment in home greenhouses or on houseplants. For use only when application rates are between 2.5 and 5.0 tablespoons oil/1 gallon of water. For all other application rates please refer back to the tables in the Directions for Use section for tank or bottle mixing.
 - Due to the force of the spray solution stream, use care when applying to delicate plants.
 - Do not empty the entire bottle of PureSpray Green Concentrate on one plant. Apply to root (i.e., until plants thoroughly saturated and spray solution runs off plant).
 - Do not re-apply during a single application (i.e., once runoff has occurred, do not come back and re-spray it).
 - Do not use attachment if it is chipped, bent or damaged.

VOLUME CONVERSION TABLE

- 1 Gallon = 4 Quarts = 8 Pints = 128 Ounces
- 1 Quart = 2 Pints = 4 Cups = 32 Ounces
- 1 Pint = 2 Cups = 16 Ounces = 32 Tablespoons
- 1 Cup = 8 Ounces = 16 Tablespoons
- 1 Ounce = 2 Tablespoons = 6 Teaspoons
- 1 Tablespoon = 3 Teaspoons

FRUIT AND NUT CROPS

CROP	PESTS	TIMING & APPLICATION RATE (Tablespoons of PureSpray Green Concentrate per 1 Gallon of Water)	COMMENTS
ACEROLA (Barbados Cherry)* ATEMIYA* CARAMBOLA (Star Fruit)* RAMBUTAN*	Aphids, Mites, Beetle Larvae, Leafminers, Thrips, Leafhopper, Whitefly, Caterpillars, Alternaria Leafspot, Gummy Stem Blight, Powdery Mildew, Rust	Use 2.0-4.0 tbsp. of oil per 1 gal. water. Spray once or twice weekly depending on the rapid growth of the crop and/or vector pressure.	*Asterisk denotes crop, pest not approved in California.
	Cucumber Mosaic Virus, Papaya Ringspot Virus, Pepper Mottle Virus, Potato Leafroll Virus, Potato Virus Y, Tobacco Etch Virus, Watermelon Mosaic Virus 2, Zucchini Yellow Mosaic	Use 2.0 tbsp. of oil per 1 gal. of water. Spray as needed.	
ALMONDS APRICOTS CHERRIES NECTARINES PEACHES PISTACHIO (continued on next page)	Black Scale, European Fruit Lecanium Scale, Frosted Scale, Olive Scale, San Jose Scale, Brown Mite Eggs, European Red Mite Eggs, Aphid Eggs, Fruit Tree Leafroller* (Eggs), Wintering Phytocoris (only on pistachio), Tent Caterpillars*	DORMANT AND DELAYED DORMANT: Use 2.5-7.5 tbsp. of oil per 1 gal. of water. European Fruit Lecanium Scale and European Red Mite Eggs: Apply from Green Tip to Delayed Dormant. San Jose Scale: Apply from Dormant, Green Tip to Delayed Dormant. Re-spray as needed. For use on pistachio, apply as a dormant treatment and/or trees may be sprayed after harvest.	*Asterisk denotes crop, pest not approved in California.
	Terrapin Scale	DELAYED DORMANT: Use 5.0-7.5 tbsp. of oil per 1 gal. of water.	
	Cottony Peach Scale	DORMANT: Use 5.0-7.5 tbsp. of oil per 1 gal. of water.	

CROP	PESTS	TIMING & APPLICATION RATE (Tablespoons of PureSpray Green Concentrate per 1 Gallon of Water)	COMMENTS
ALMONDS APRICOTS CHERRIES NECTARINES PEACHES PISTACHIO (continued)	Powdery Mildew Cherries: (Cherries, Nectarines and Peaches only) Scales, Two-spotted Spider Mite, Pacific Mite, European Red Mite, Brown Mite White Peach Scale on Peaches: Only for use in Georgia, Florida, South Carolina, North Carolina, and Alabama.	Cherries: Use 2.5-5.0 tbsp. of oil per 1 gal. of water. Preharvest Use: Use up to pit hardening stage. Apply at 10-14 day intervals - shorten interval and/or use higher rate when disease conditions are severe. Trees may be sprayed after harvest to maintain control and reduce overwintering inoculum. Nectarines/Peaches: Use 2.5-5.0 tbsp. of oil per 1 gal. of water. Begin at 5% bloom and continue at 10-14 day intervals until terminal growth phase stops. Do not apply to oil sensitive varieties. FOLIAR SPRAY: Use 1.5-4.0 tbsp. of oil per 1 gal. of water. Spray as needed.	
APPLES (continued on next page)	European Fruit Lecanium Scale, Olive Scale, San Jose Scale, European Red Mite Eggs, Rust Mite, Rosy Apple Aphid Eggs, Apple Aphid Eggs Codling Moth*	DORMANT AND DELAYED DORMANT: Use 2.5-5.0 tbsp. of oil per 1 gal. of water. Rust Mite: Apply 4.0-5.0 tbsp. of oil per 1 gal. of water during the delayed dormant timing.	
			Restriction: Use to control first generation early instar stages only. *Asterisk denotes crop, pest not approved in California.

CROP	PESTS	TIMING & APPLICATION RATE (Tablespoons of PureSpray Green Concentrate per 1 Gallon of Water)	COMMENTS
APPLES (continued)	Fruit Tree Leafroller, Apple Red Bug, Scourfy Scale	GREEN TIP TO DELAYED DORMANT: Use 2.5-7.5 tsp. of oil per 1 gal. of water.	
	European Red Mite	European Red Mite: Delayed Dormant is preferred. Re-spray as needed.	
	San Jose Scale Forbes Scale	DORMANT. GREEN TIP TO DELAYED DORMANT: Use 2.5-5.0 tsp. of oil per 1 gal. of water. Spray as needed	
	Powdery Mildew	Use 2.5-5.0 tsp. of oil per 1 gal. of water. Apply at tight cluster and continue every 10-14 days through second cover spray. Use 5.0 tsp./gal. and/or shorter spray interval when disease conditions are severe.	
	Scales, Mites including: Two Spotted Spider Mite, Pacific Red Mite, European Red Mite, Rust Mite, Leafhopper*, San Jose Scale, Rosy Apple Aphid*, Fruit Tree Leafroller*	FOLIAR SPRAY (Post Bloom): Use 1.0-4.0 tsp. of oil per 1 gal. of water. For rust mite, summer use, use 2.5-4.0 tsp. of oil per 1 gal. of water. Apply every 10-14 days depending on level of pest pressure. Trees may be sprayed after harvest to maintain control and reduce over-wintering pressure. Do not apply oil to sensitive varieties.	*Asterisk denotes crop, pest not approved in California.
AVOCADOS	Avocado Brown Mite, Thrips, Persea Mite	Use 1.5-2.5 tsp. of oil per 1 gal. of water. Apply through late fall. Re-apply as needed.	California: Consult with your local University of California Cooperative Extension Service for proper timing and application parameters.

CROP	PESTS	TIMING & APPLICATION RATE (Tablespoons of PureSpray Green Concentrate per 1 Gallon of Water)	COMMENTS
BANANAS PLANTAINS	Black Leaf Streak (<i>Mycosphaerella fijiensis</i>), Black Sigatoka (<i>Mycosphaerella fijiensis</i> var. <i>difformis</i>) Yellow Sigatoka (<i>Mycosphaerella muscolola</i>)	Use 1.5-4.0 tsp. of oil per 1 gal. of water. Begin application when disease first appears and continue every 10-15 days during rainy periods or as is needed.	Restriction: Do not apply when daytime temperatures exceed 80° F as injury may occur. Phytotoxicity may be affected by the quantity of oil used, vigor of trees and temperature at the time of application. Bag fruits, or use a directed spray on unbagged fruits. Bagged fruit improves crop safety whereas unbagged fruit may show phytotoxicity. This application is also effective in loosening Sooty Mold Fungus and in preventing its formation by the control of Aphids, Mealybugs, Scales and Whitefly.
BLUEBERRIES BUSHBERRIES CANEBERRIES RASPBERRIES	Mites, Powdery Mildew, Rust, Sawfly (eggs)*, Scales* Aphids, Mealybug	Use 2.0-4.0 tsp. of oil per 1 gal. of water. Spray as needed.	Spray for optimum coverage of leaf surfaces. *Asterisk denotes crop, pest not approved in California.
FIGS	Fig Scale	DORMANT OR DELAYED DORMANT: Use 2.5-7.5 tsp. of oil per 1 gal. of water. Spray as needed.	
	Mites, Mealybug, Scale	Use 2.5-5.0 tsp. of oil per 1 gal. of water.	Apply as foliar spray.
GRAPES (continued on next page)	Mealybug, Mites, Leafhopper*, Whiteflies*, Powdery Mildew, Botrytis	Use 2.5-7.5 tsp. of oil per 1 gal. of water. Spray for optimum coverage of leaf surfaces. Repeat sprays every 10-14 days.	Oil will remove the bloom on grapes. Restriction: Table grapes must not be sprayed within 60 days of harvest. Restriction: On grapes, do not mix oil and copper more than once/season Restriction: Do not use copper and oil together with fruit present. *Asterisk denotes crop, pest not approved in California.

CROP	PESTS	TIMING & APPLICATION RATE (Tablespoons of PureSpray Green Concentrate per 1 Gallon of Water)	COMMENTS
GRAPES (continued)	Mealybug, Mites, Leafhopper*, Whiteflies*, Powdery Mildew, Botrytis	For Powdery Mildew - Use 2.5-7.5 tsp. of oil per 1 gal. of water. Make first application pre-bloom and continue every ten days to three weeks depending on level of disease pressure. Use 7.5 tsp./gal. and/or shorter spray interval when disease conditions are severe. For Botrytis Bunch Rot - Use 2.5-5.0 tsp. of oil per 1 gal. of water. Initiate sprays at bloom and repeat prior to bunch closing and véraison. Final application at harvest if needed. Use 5.0 tsp./gal. when disease conditions are severe.	
	KIWI	Latania Scale, Greedy Scale, Oleander Scale, San Jose Scale Use 10.0-15.0 tsp. of oil per 1 gal. of water. Use 15.0 tsp./gal. when scale populations are high. Spray as needed. Do not apply after budbreak.	Restriction: Do not use on weak or stressed vines, or where soil moisture is inadequate.
	MANGO	Mites, Powdery Mildew Use 2.5-4.0 tsp. of oil per 1 gal. of water. Apply every 2-3 weeks as necessary depending on level of pest pressure. For Powdery Mildew - Begin application before bloom. Repeat at bloom and every 2-3 weeks as necessary.	
OLIVES	Olive (Parlatoria) Scale, Oleander Scale, Black Scale.	POSTBLOOM THROUGH AUGUST AND AFTER HARVEST: Use 2.5-4.0 tsp. of oil per 1 gal. of water. Spray as needed.	
	Mites	PREBLOOM TO POSTBLOOM BUCKSHOT: Use 4.0 tsp. of oil per 1 gal. of water. Spray as needed.	
PAPAYA	Mites, Powdery Mildew, Papaya Ringspot Virus	Use 2.0-4.0 tsp. of oil per 1 gal. of water. For Powdery Mildew and Mites: Spray every 10-14 days depending on the level of pest pressure. For Virus: Spray weekly. Initiate spray when seeds are germinated.	

CROP	PESTS	TIMING & APPLICATION RATE (Tablespoons of PureSpray Green Concentrate per 1 Gallon of Water)	COMMENTS
PEARS	European Fruit Lecanium Scale, Olive Scale, San Jose Scale, European Red Mite, Eggs	DORMANT: Use 2.5-5.0 tsp. of oil per 1 gal. of water. Spray as needed.	
	Pear Psylla	Apply before eggs are laid in early spring.	
	Codling Moth*	Use to control first generation early instar stages only.	*Asterisk denotes crop, pest not approved in California.
	Fruit Tree Leafroller Pear Leaf Blister Mite	DORMANT: Use 2.5-7.5 tsp. of oil per 1 gal. of water	
POWDERY MILDREW	Powdery Mildew	Use 2.5-5.0 tsp. of oil per 1 gal. of water. Apply at bud burst and continue every 10-14 days. Use 5.0 tsp./gal. and/or shorter spray interval when disease conditions are severe.	
	Scales, Two Spotted Spider Mite, Pacific Red Mite, European Red Mite, San Jose Scale and Italian Pear Scale (Summer forms) Leafhopper*, Pear Psylla	FOLIAR SPRAY (Post Bloom): Use 1.0-4.0 tsp. of oil per 1 gal. of water. Trees may be sprayed after harvest to maintain control and reduce over-wintering inoculum. Do not apply oil to sensitive varieties.	*Asterisk denotes crop, pest not approved in California.
PECANS	Scales, Aphids (eggs), Mites (eggs)	Use 5.0-7.5 tsp. of oil per 1 gal. of water. Use the lower rate of oil when trees are in a weakened condition. Apply from late February until buds first break. Re-spray as needed.	
PINEAPPLE	Mealybugs, Bud Moth, Chinese Rose Beetle	Spray: Use 2.5-5.0 tsp. of oil per 1 gal. of water. Spray as needed Dip: Use 2.5-5.0 tsp. of oil per 1 gal. of water, dip for 30 seconds.	Allow fruit to dry for 1 hour before being stored.

CROP	PESTS	TIMING & APPLICATION RATE (Tablespoons of PureSpray Green Concentrate per 1 Gallon of Water)	COMMENTS
PLUMS PRUNES	Black Scale, European Fruit Lecanium Scale, Frosted Scale, Olive Scale, San Jose Scale, Brown Mite Eggs, European Red Mite Eggs, Aphid Eggs, Fruit Tree Leafroller Eggs, Tent Caterpillars*	DORMANT AND DELAYED DORMANT: Use 2.5-7.5 tbsp. of oil per 1 gal. of water. Preferred times of application for European Fruit Lecanium Scale and European Red Mite Eggs are Green Tip to Delayed Dormant and for San Jose Scale are Dormant, Green Tip to Delayed Dormant. Spray as needed.	*Asterisk denotes crop, pest not approved in California.
	Terrapin Scale	DELAYED DORMANT: Use 5.0-7.5 tbsp. of oil per 1 gal. of water. Spray as needed.	
	Cottony Peach Scale	DORMANT: Use 5.0-7.5 tbsp. of oil per 1 gal. of water. Spray as needed.	
	Two-spotted Spider Mite, Pacific Mite, European Red Mite, Brown Mite	FOLIAR SPRAY: Use 1.5-4.0 tbsp. of oil per 1 gal. of water. Spray as needed. Trees may be sprayed after harvest to maintain control and reduce over-wintering pressure. Do not apply oil to sensitive varieties.	Restriction: Certain varieties of plums and prunes may be injured by oil sprays; check for tolerance prior to treatment. Do not spray oil on sensitive varieties.
STRAWBERRIES	Aphids*, Botrytis, Leafminers*, Mites, Powdery Mildew, Sawfly, Scale, Whiteflies	2.0 tbsp. of oil per 1 gal. of water Spray as needed.	*Asterisk denotes crop, pest not approved in California.
WALNUTS	Black Scale, Calico Scale, European Fruit Lecanium Scale, Frosted Scale, Olive Scale, San Jose Scale, European Red Mite Eggs, Walnut Aphid Eggs	DELAYED DORMANT: Use 10.0-15.0 tbsp. of oil per 1 gal. of water. Spray as needed.	Restrictions: Do not apply after husk split. Do not spray oil on sensitive varieties.
	Spider Mites, Soft Scales	SUMMER FOLIAR: Use 10.0-15.0 tbsp. of oil per 1 gal. of water. Spray as needed.	

CITRUS: (California Only)

CROP	PESTS	TIMING & APPLICATION RATE (Tablespoons of PureSpray Green Concentrate per 1 Gallon of Water)	COMMENTS
GRAPEFRUIT LEMONS LIMES ORANGES (Navel & Valencia) TANGELOS TANGERINES Other citrus hybrids	Mites: Citrus Bud, Citrus Flat, Citrus Red, Citrus Rust	Central California: Use 1.5-4.0 tbsp. of oil per 1 gal. of water. Lemons and Limes: make applications in all months except December through February. Grapefruit: make applications July through October. Navel Oranges: make applications July through September. Valencia Oranges, Tangelos, Tangerines and other citrus hybrids: make applications July through October. Spray as needed.	Restriction: Do not apply prior to or during a period of excessively high temperatures. Do not apply oil spray when trees show stress. Consult with your local University of California Cooperative Extension Specialist for proper timing and spray program.
	Mites: Citrus Bud, Citrus Flat, Citrus Red, Citrus Rust	Southern California: Use 1.5-4.0 tbsp. of oil per 1 gal. of water. Coastal Lemons and Limes: apply May and June and/or September through December. Interior Lemons and Limes: apply in April and May and/or September through November. Grapefruit: make applications July through October Navel Oranges: make applications July through September Valencia Oranges, Tangelos, Tangerines and other citrus hybrids: make applications July through October. Spray as needed.	
	Scales: Black, Brown Soft, California Red, Citricola, Purple, Yellow, Red	Ornard Piths Area: Use 1.5-4.0 tbsp. of oil per 1 gal. of water. Make applications as needed throughout the year.	
	Mites: Citrus Bud, Citrus Flat, Citrus Red, Citrus Rust		

CITRUS: (Florida and Texas)

CROP	PESTS	TIMING & APPLICATION RATE (Tablespoons of PureSpray Green Concentrate per 1 Gallon of Water)	COMMENTS
CITRONS GRAPEFRUITS LEMONS LIMES MANDARINS ORANGES TANGELOS TANGERINES Other citrus hybrids DO NOT APPLY TO NAVEL ORANGES.	Citrus Rust Mite, Spider Mites, Bud Mites, Flat Mites	Use 1.5-4.0 tbsp. of oil per 1 gal. of water. Summer spray only. Re-spray as needed.	
	Scales: Black Soft, Brown Soft, Chaff, Clover, Purple, Red, Yellow		
	Does not control Citrus Snow Scale.		
	Whitely, Blackfly		
	Greasy Spot (Grapefruit)		
	Greasy Spot (all other varieties)		
	Loosening sooty mold		Use 4.0 tbsp./gal. when disease pressure is heavy.

Improved control can be obtained when all foliage is thoroughly covered.

Precautions in the use of oil include: Do not apply oil spray when trees are wilting. Do not apply oil and sulfur within 3 weeks of each other. Sensitive foliage may be injured.

In Florida, consult the Florida Citrus Spray and Dust Schedule, or your Agricultural Experiment Station or State Extension Service Specialist for complete details on the spraying program best suited to your locale. In Texas, consult with your Agricultural Experiment Station or State Extension Specialist for complete details on the spraying program suited to your locale.

VEGETABLE CROPS

CROP	PESTS	TIMING & APPLICATION RATE (Tablespoons of PureSpray Green Concentrate per 1 Gallon of Water)	COMMENTS
ASPARAGUS, BEANS, BEETS, BROCCOLI, CHINESE BROCCOLI, BROCCOLI RAAB, BRUSSELS SPROUTS, CABBAGE, CAULIFLOWER, CHINESE CABBAGE (Bok Choy and Napa), CHINESE MUSTARD CABBAGE (Gai Choy), CAVALO BROCCOLI, COLLARDS, KALE, KOHLRABI, MIZUNA, MUSTARD GREENS, MUSTARD SPINACH, RAPE GREENS, CELERY, CHAYOTE, CHINESE WAXGOURD, CITRON MELON, CUCUMBER, GHERKIN, HYOTAN, CUCUZZA, HECHIMA, CHINESE OKRA, BALSAM APPLE, BALSAM PEAR, BITTER MELON, CHINESE CUCUMBER, TRUE CANTALOUPE, CANTALOUPE, CASABA, CRENSHAW MELON, GOLDEN PERSHAW MELON, HONEYDEW MELON, HONEY GALLS, MANGO MELON, PERSIAN MELON, PUMPKIN, SUMMER SQUASH, WINTER SQUASH, WATERMELON, DASHEEN (Taro)*, EGGPLANT, GINGER*, GINSENG*, HERBS AND SPICES* (Curly Leaf Basil, Lemon Balm), JAPANESE RADISH (Daikon)*, LETTUCE, OKRA*, PEPPERS, POTATOES, RADISHES, SWEET POTATOES	Aphids, Mites, Beetle Larvae, Leafminers, Thrips, Leafhopper, Whitefly, Alternaria Leafspot, Gummy Stem Blight, Powdery Mildew, Rust	Use 2.0-4.0 tbsp. of oil per 1 gal. of water. Spray once or twice weekly depending on the rapid growth of the crop and / or vector pressure.	*Asterisk denotes crop, pest not approved in California.
	Cucumber Mosaic Virus, Papaya Ringspot Virus, Pepper Mottle Virus, Potato Leafroll Virus, Potato Virus Y, Tobacco Etch Virus, Watermelon Mosaic Virus 2, Zucchini Yellow Mosaic.	Use 2.0 tbsp. of oil per 1 gal. of water. Spray as needed.	

CROP	PESTS	TIMING & APPLICATION RATE (Tablespoons of PureSpray Green Concentrate per 1 Gallon of Water)	COMMENTS
CHINESE ARTICHOKE* (Japanese Artichoke) CILANTRO* HERBS AND SPICES* (Mexican Oregano, Mint)	Aphids, Mites, Beetle Larvae, Leafminers, Thrips, Leafhopper, Whitefly, Alternaria Leafspot, Gummy Stem Blight, Powdery Mildew, Rust, Pepper Psyllids, Cucumber Mosaic Virus 2, Papaya Ringspot Virus, Pepper Mottle Virus, Potato Leafroll Virus, Potato Virus Y, tobacco Etch Virus, Watermelon Mosaic Virus 2, Zucchini Yellow Mosaic	Use 2.5-5.0 tsp. of oil per 1 gal. of water. Spray once or twice weekly depending on the rapid growth of the crop and / or vector pressure.	*Asterisk denotes crop, pest not approved in California.
CORN (Sweet)	Aphids, Mites, Leafhopper, Leafminers, Corn Earworm, Rootworm, Armyworm, Whitefly, Cercospora	Use 2.5-5.0 tsp. of oil per 1 gal. of water. Spray as needed.	
TOMATOES	Aphids, Mites, Beetle Larvae, Leafminers, Thrips, Leafhopper, Whitefly, Alternaria Leafspot, Gummy Stem Blight, Powdery Mildew, Rust, Tomato Psyllid*, Tomato Pin Worm*, Fruit Worm*, Army Worm*, Horn Worm*, Lygus Bug*, Stink Bug*, Cucumber Mosaic Virus, Papaya Ringspot Virus, Pepper Mottle Virus, Potato Leafroll Virus, Potato Virus Y, Tobacco Etch Virus, Watermelon Mosaic Virus 2, Zucchini Yellow Mosaic	Use 2.0-4.0 tsp. of oil per 1 gal. of water. Spray once or twice weekly depending on the rapid growth of the crop and / or vector pressure.	*Asterisk denotes crop, pest not approved in California.

MISCELLANEOUS

CROP	PESTS	TIMING & APPLICATION RATE (Tablespoons of PureSpray Green Concentrate per 1 Gallon of Water)	COMMENTS
COFFEE	Green Scale	Use 7.5-15.0 tsp. of oil per 1 gal. of water. Use only water as a diluent. Apply when insects appear and treat as necessary at 30-60 day intervals. Do not exceed 18 gals. of oil per acre in a growing season.	Treatments should end 30 days or more before crop picking as oil residues make picking difficult. Restriction: Do not apply this product through any type of irrigation system. Phytotoxicity may be affected by the quantity of oil used, vigor of trees and temperature at the time of application.

ORNAMENTALS

PLANT	PESTS	TIMING & APPLICATION RATE (Tablespoons of PureSpray Green Concentrate per 1 Gallon of Water)	COMMENTS
FLOWERING AND FOLIAGE PLANTS INCLUDING ROSES AND OTHER FLOWERING SHRUBS	Aphids, Adelgids, Eriophyid Mites, Gall Mites, Honey Locust Plant Bug, Lace Bug, Leaf Beetle Larvae, Leafminer (non-larvae), Leafrollers, Mealybugs, Psyllids (immature), Red Mites, Sawfly (larvae), Scales (immature), Spider Mites, Webworms, Whiteflies, Blackspot, Powdery Mildew, Young Caterpillars	Winter Dormant Period: Use 5.0-7.5 tsp. of oil per 1 gal. of water. Summer (Foliar or Cover): Use 2.0-5.0 tsp. of oil per 1 gal. of water. For blackspot and powdery mildew control during the summer do not exceed 4.0 tsp. of oil per 1 gal. of water. Spray as needed.	
FOLIAGE ORNAMENTALS & BEDDING PLANTS	Aphids, Adelgids	Winter Dormant Period: Use 5.0-7.5 tsp. of oil per 1 gal. of water. Summer (Foliar or Cover): Use 2.0-5.0 tsp. of oil per 1 gal. of water. Spray as needed.	Application safety during bloom period must be determined for each individual species of plant to be treated by conducting a small test.

PLANT	PESTS	TIMING & APPLICATION RATE (Tablespoons of PureSpray Green Concentrate per 1 Gallon of Water)	COMMENTS
NON-FRUIT - BEARING TREES - Apple, Cherry, Peach, Pear	Mites	Use 2.5-5.0 tsp. of oil per 1 gal. of water. Apply every 10-14 days.	
	Powdery Mildew	Use 2.5-5.0 tsp. of oil per 1 gal. of water. Spray before disease first appears. Apply every 10-14 days.	
SHADE TREES** ORNAMENTAL TREES** SHRUBS (INCLUDING CONIFERS, DECIDUOUS AND BROADLEAF EVERGREENS & WOODY ORNAMENTALS)	Aphids, Adelgids, Eriophyid Mites, Gall Mites, Hemlock Woolly Adelgids, Honey Locust Plant Bug, Lace Bug, Leaf Beetle Larvae, Leafminer (non-larvae), Leafrollers, Mealybugs, Psyllids (immature), Red Mites, Sawfly (larvae), Scales (immature), Spider Mites, Webworms, Whiteflies, Blackspot, Powdery Mildew, Young Caterpillars	Winter Dormant Period: Use 5.0-7.5 tsp. of oil per 1 gal. of water. Summer (Foliar or Cover): Use 2.0-5.0 tsp. of oil per 1 gal. of water. For blackspot and powdery mildew control during the summer, do not exceed 5.0 tsp. of oil per 1 gal. of water. Spray as needed.	Restriction: Do not spray when there is obvious moisture deficit in leaves, or the plant is under stress. For fall dormant applications, reduce rate to 5.0 tsp. of oil per 1 gal. of water and limit use only to: American Red Oak, Japanese Black Pine, Dogwood, Weeping Cherry, Cornelian Cherry, Crabapple, Norway Maple, Purple Plum. Restriction: May cause discoloration of Blue Spruce. Do not use on conifers or ferns not tolerant to oil sprays (e.g. Alberta Dwarf Spruce). Use enough spray solution to completely penetrate the leaf canopy and cover both top and bottom of all the leaves and stems until wet but without significant runoff.

Use a lower concentration for more sensitive plants.

**This product 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.

GREENHOUSE AND CONTAINER

Frequency of Application: For the greenhouse pests listed, use once a week initially, then as the pest is controlled, decrease the frequency to every 2-3 weeks as needed. Application safety during bloom period must be determined for each individual species of plant to be treated by conducting a small test.

PLANT	PESTS	TIMING & APPLICATION RATE (Tablespoons of PureSpray Green Concentrate per 1 Gallon of Water)	COMMENTS
AGERATUM CROWN OF THORNS DIEFFENBACHIA DOGWOOD* DRACAENA* FERNS FICUS HOLLY* LISIANTHUS MAGNOLIA* ORCHID PALMS PETUNIA POINSETTIA SCHEFFLERA SUNFLOWER	Aphids, Fungus Gnats, Leafminers, Mealybugs, Scales (soft & hard), Spider Mites, Thrips, Whitefly, Powdery Mildew*	Summer (Foliar or Cover): Use 1.5-2.5 tsp. of oil per 1 gal. of water. Spray as needed.	Due to varietal differences in response to a treatment of this product at the labeled rate, conduct a small test on 1 or 2 plants of the specific variety to be treated. Some plants are more sensitive to oil treatments if any of the following conditions are present when application is made: High humidity (74%), an overcast or cloudy day, inadequate air flow, a small greenhouse where the sunlight is magnified causing a fast build-up of temperature and light intensity.
AGLAONEMA ASTER AZALEAS BEGONIAS BROWALLIA CAMELLIAS CARNATION CELOSIA CHRYSANTHEMUM COLEUS COSMOS CREPE MYRTLE* DUSTY MILLER EASTER LILIES FUCHSIA* GARDENIAS GERBERA HELLICHRYSUM HIRSICUS FOLIAGE HYDRANGEA IMPATIENS* JADE PLANT MARGIOT NEW GUINEA IMPATIENS	Aphids, Fungus Gnats, Leafminers, Mealybugs, Scales (soft & hard), Spider Mites, Thrips, Whitefly, Powdery Mildew*	Summer (Foliar or Cover): Use 2.5-5.0 tsp. of oil per 1 gal. of water. Spray as needed.	*Asterisk denotes crop, pest not approved in California.

PLANT	PESTS	TIMING & APPLICATION RATE (Tablespoons of PureSpray Green Concentrate per 1 Gallon of Water)	COMMENTS
NICOTIANA PHILODENDRON PORTULACA REIGER BEGONIAS SNAPDRAGON ZINNIAS	Aphids, Fungus Gnats, Leafminers, Mealybugs, Scales (soft & hard), Spider Mites, Thrips, Whitefly, Powdery Mildew*	Summer (Foliar or Cover): Use 2.5-5.0 tbsp. of oil per 1 gal. of water. Spray as needed.	Due to varietal differences in response to a treatment of this product at the labeled rate, conduct a small test on 1 or 2 plants of the specific variety to be treated. Some plants are more sensitive to oil treatments if any of the following conditions are present when application is made: High humidity (74%), an overcast or cloudy day, inadequate air flow, a small greenhouse where the sunlight is magnified causing a fast build-up of temperature and light intensity. *Asterisk denotes crop, pest not approved in California.
LEAF POLISH FOR HARDY PLANTS		Use 2.5 tbsp. of oil per 1 gal. of water.	

STORAGE AND DISPOSAL

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

Pesticide Storage: Keep container tightly closed in storage to prevent entry of water or other contaminants. Store in a cool, dry locked area out of the reach of children or pets. Do not store this product in direct sunlight for prolonged periods of time. Do not freeze. This product must be stored in its original container only. Do not put concentrate or dilute product into food or drink containers.

Pesticide and Container Disposal

If empty: Not a refillable container. Do not reuse or refill this container. Offer for recycling if available; if recycling unavailable place in trash.

If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

CONDITIONS OF SALE AND LIMITATIONS OF WARRANTY AND LIABILITY

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 such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Petro-Canada Lubricants, the manufacturer or seller. All such risks shall be assumed by the buyer.

To the extent consistent with applicable law neither Petro-Canada Lubricants, the manufacturer or seller shall be liable for consequential, special or indirect damages resulting from the use or handling of this product. Except as provided by applicable law or except as warranted by this label, Petro-Canada Lubricants, the manufacturer or seller makes no warranties, guarantees, or representations of any kind, either express or implied, or by usage of trade statutory or otherwise, with regard to the product sold, including, but not limited to, merchantability, fitness for a particular purpose, use or eligibility of the product for any particular trade usage. Except as provided by applicable law, buyer's or user's exclusive remedy, and Petro-Canada Lubricants', the manufacturer's or seller's total liability, shall be for damages not exceeding the cost of the product.

MADE IN CANADA (MAY CONTAIN IMPORTED PARTS) FOR:

Petro-Canada Lubricants Inc., a Suncor Energy Business
2310 Lakeshore Road West, Mississauga, Ontario L5J 1K2 Canada

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