

69526-14

12/3/2008

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U.S. ENVIRONMENTAL PROTECTION AGENCY
 Office of Pesticide Programs
 Registration Division (7505C)
 1200 Pennsylvania Ave., N.W.
 Washington, D.C. 20460

EPA Reg. Number:
 69526-14

Date of Issuance:
 DEC 03 2008

NOTICE OF PESTICIDE:

- Registration
- Reregistration

(under FIFRA, as amended)

Term of Issuance:
 Conditional

Name of Pesticide Product:
 PureSpray™ Green Formula 3

Name and Address of Registrant (include ZIP Code):

Robert G. Butz
 Keller and Heckman LLP c/o
 Petro-Canada
 1001 G. Street, N.W. Suite 500 West
 Washington, D.C. 20001

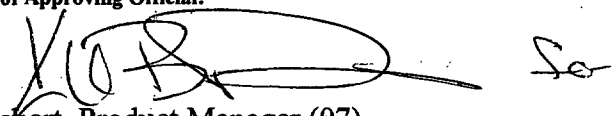
Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product, EPA Reg. No. 69526-14, when the Agency requires all registrants of similar products to submit such data.
2. Make the following label changes before you release the product for shipment:
 - a. Revise the EPA Registration Number to read, "EPA Reg. No. 69526-14."

Signature of Approving Official:

 John Hebert, Product Manager (07)
 Insecticide-Rodenticide Branch, Registration Division (7505P)

Date:
 12-3-08

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3. Storage stability (830.6317) and corrosion characteristics (830.6320) data must be submitted within 18 months of the date of this notice.

4. Submit one copy of the revised final printed label for the record before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. If you have any questions regarding this notice, please contact Jennifer Gaines at (703) 305-5967.

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

John Hebert
Product Manager (07)
Insecticide-Rodenticide Branch
Registration Division (7505P)

Enclosure

3/12



PETRO-CANADA *

PURESpray

GREEN

Formula 3

FOR ORGANIC GARDENING

ALL SEASON ORGANIC HORTICULTURAL SPRAY OIL **For Insect, Mite and Disease Control** **FOR RESIDENTIAL USE ONLY**

For Use On: Landscape Trees and Plants, Shrubs and Flowering Plants, Houseplants, Fruit and Nut Trees, Shade Trees, Garden Herbs & Vegetables, Ornamentals, Flowers, Evergreens, Home Greenhouse Plants, and Container Gardens.

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

- Can be applied up to harvest for most crops listed*.
- Patented Purity Process - 99% Pure. Active contains less than 1% sulphonated residue
- Effectively kills insects year-round. For dormant and growing season applications.
- Kills insects through suffocation. Insects cannot develop resistance.
- Use to control all stages of insects including eggs.
- Special emulsifiers for easy mixing
- One gallon PureSpray™ Green Formula 3 makes up to 100 gallons diluted or finished spray
- One quart PureSpray™ Green Formula 3 makes up to 25 gallons diluted or finished spray
- One pint PureSpray™ Green Formula 3 makes up to 12 gallons diluted or finished spray

* Does not include Table Grapes.

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. This product can be applied up to harvest*.

PureSpray™ Green Formula 3 is a concentrate and must be mixed with water according to the mixing directions inside booklet. Follow the specified dilution rate for the particular plant and pest being sprayed.

READ DIRECTIONS THOROUGHLY BEFORE USING.

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

KEEP OUT OF REACH OF CHILDREN
CAUTION

See Below For Additional Precautionary Statements

EPA REG. NO. 69526-RU
EPA EST. NO.

NET CONTENTS: 1 GAL. (3.79 L), 1 QT (0.95 L), 1 PT (0.47 L)
BATCH CODE: _____

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 to 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 run off to water bodies or drainage systems.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product through any type of irrigation system.

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.

ACCEPTED
DEC 03 2008
Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
Registered under
EPA Reg. No. 69526-14

APPLICATION INSTRUCTIONS

- The best times to spray are 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.
- May be used up to day of harvest except for Table Grapes and Coffee
- The effectiveness of PureSpray™ Green Formula 3 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 Formula 3 at the specific rate, we recommend conducting 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. This note not to appear on final label)

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 Formula 3 VIGOROUSLY PRIOR TO MEASURING OUT THE DESIRED AMOUNT.**
3. Add the appropriate amount of PureSpray™ Green Formula 3 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 Formula 3 and water. Mix just enough for immediate use.
7. 2 tablespoons = 1 fluid ounce. 4 tablespoons = 1/4 cup = 2 fluid ounces.

[Alt. Directions, DIRECTIONS FOR USE in place of "Mixing Directions for spray equipment other than hose end sprayer" WHEN APPLYING WITH A HOSE END SPRAYER

This hose end sprayer must only be used with PureSpray™ Green Formula 3. 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 Formula 3 on one plant. Apply until plant is fully saturated and to the point of run off.
- Once runoff has occurred during a single application, do not re-apply product.
- Do not use attachment if it is chipped, bent or damaged.]

Directions for use with K-1 Hose End Sprayer

1. Shake well before using.
2. Make sure control lever located on the side of the hose end sprayer is in the **OFF** position.
3. If the sprayer is not in the **OFF** position, bend safety tab down to the right and turn control lever to the **OFF** position.
4. Once the control lever is in the **OFF** position, attach the hose end sprayer to the water hose.
5. Turn on water supply at the spigot.
6. Turn the control lever to the **ON** position. To do this, simply bend the safety tab down to the right and turn the control lever until it lines up with the word: **ON**.
7. When spraying is complete, turn control lever to the **OFF** position as directed in step 3.
8. Turn off water supply at spigot.
9. If bottle is empty, discard bottle as per the instructions on the back panel (see **Storage and Disposal** instructions for insecticides).
10. The sprayer and dip tube may be cleaned and saved for future use with another PureSpray™ Green Formula 3 purchase. This hose end attachment must only be used with PureSpray™ Green Formula 3. Use of this sprayer with other pesticides may lead to plant damage as a result of product incompatibility.

NOTE: This sprayer may be used to just spray water. To only spray water follow steps 1- 5 and then turn the control lever to the **WATER** position. Once watering is completed, continue with steps 7-10. No PureSpray™ Green Formula 3 will be expelled when the control lever is in the **WATER** position. This water spray is an option provided to the user to water plants that are not currently being sprayed with the PureSpray™ Green Formula 3 product for pest control.]

[Alt. Directions: [the bracketed instruction set above will be included in the full instruction set when this product is packaged and sold in a 1 quart size K-1 hose-end sprayer only. This note and corresponding asterisks will not appear on final labeling.]

VOLUME CONVERSION TABLE

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

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: Non-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, the manufacturer or seller. All such risks shall be assumed by the buyer.

To the extent consistent with applicable law neither Petro-Canada, 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, 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's, the manufacturer's or seller's total liability, shall be for damages not exceeding the cost of the product.

FRUIT AND NUT CROPS

CROP	PESTS	TIMING & APPLICATION RATE (Tablespoons of PureSpray™ GREEN Formula 3 per 1 Gallon of Water)	COMMENTS
ACEROLA (Barbados Cherry)* ATEMOYA* 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. 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.	
ALMONDS APRICOTS CHERRIES NECTARINES PEACHES PISTACHIO	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 and/or postharvest treatment.	*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.	
	Powdery Mildew (Cherries, Nectarines and Peaches only)	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- to 14-day intervals – shorten interval and/or use higher rate when disease conditions are severe. Postharvest applications to trees may be made 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- to 14-day intervals until terminal growth phase stops. Do not apply to oil sensitive varieties.	
	Scales, 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.	
	White Peach Scale on Peaches: Only for use in Georgia, Florida, South Carolina, North Carolina, and Alabama.	DORMANT: Use 4.0-5.0 tbsp. of oil per 1 gal. of water. Apply before buds begin to swell in the spring. Make 2 applications 7-14 days apart, or according to local Cooperative Extension Service recommendations, during the dormant period.	
APPLES	European Fruit Lecanium Scale, Olive Scale, San Jose Scale, European Red Mite Eggs, Rust Mite, Rosy Apple Aphid Eggs, Apple Aphid Eggs	DORMANT OR 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.
	Codling Moth*		
	Fruit Tree Leafroller, Apple Red Bug, Scurfy Scale European Red Mite	GREEN TIP TO DELAYED DORMANT: Use 2.5-7.5 tbsp. of oil per 1 gal. of water 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 tbsp. of oil per 1 gal. of water. Spray as needed.	

	Powdery Mildew	Use 2.5-5.0 tbsp. of oil per 1 gal. of water. Apply at tight cluster and continue every 10-14 days through second cover spray. Use higher rate and/or shorter spray interval when disease conditions are severe.	
	Scales, Two Spotted Spider Mite, Pacific Red Mite, European Red Mite, Rust Mite, Leafhopper*, San Jose Scale, Rosy Apple Aphid*, Fruit Tree Leafroller*	FOLIAR SPRAY (PostBloom): Use 1.0-4.0 tbsp. of oil per 1 gal. of water. For rust mite, summer use, use 2.5-4.0 tbsp. of oil per 1 gal. of water. Apply every 10-14 days depending on level of pest pressure. Postharvest sprays may be made 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 tbsp. 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 Formula 3 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 musicola</i>)	Use 1.5-4.0 tbsp. of oil per 1 gal. of water. Begin application when disease first appears and continue every 10-15 days during rainy periods or as 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 tbsp. 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 tbsp. of oil per 1 gal. of water. Spray as needed.	
	Mites, Mealybug, Scale	Use 2.5-5.0 tbsp. of oil per 1 gal. of water.	Apply as foliar spray.
GRAPES	Mealybug, Mites, Leafhopper*, Whiteflies*, Powdery Mildew, Botrytis	Use 2.5-7.5 tbsp. of oil per 1 gal. of water. Spray for optimum coverage of leaf surfaces. Repeat sprays every 10-14 days. For Powdery Mildew - Use 2.5-7.5 tbsp. of oil per 1 gal. of water Make first application prebloom and continue every ten days to three weeks depending on level of disease pressure. Use higher rate and/or shorter spray interval when disease conditions are severe. For Botrytis Bunch Rot - Use 2.5-5.0 tbsp. 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 higher rate when disease conditions are severe.	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.
KIWI	Latania Scale, Greedy Scale, Oleander Scale, San Jose Scale	Use 10.0-15.0 tbsp. of oil per 1 gal. of water. Use higher rate 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 tbsp. 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 POST-HARVEST: Use 2.5-4.0 tbsp. of oil per 1 gal. of water. Spray as needed.	
	Mites	PREBLOOM TO POSTBLOOM BUCKSHOT: Use 4.0 tbsp. of oil per 1 gal. of water. Spray as needed.	

PAPAYA	Mites, Powdery Mildew, Papaya Ringspot Virus	Use 2.0-4.0 tbsp. 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.	
PEARS	European Fruit Lecanium Scale, Olive Scale, San Jose Scale, European Red Mite Eggs	DORMANT: Use 2.5-5.0 tbsp. of oil per 1 gal. of water. Spray as needed.	
	Pear Psylla Codling Moth*	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 tbsp. of oil per 1 gal. of water	
	Powdery Mildew	Use 2.5-5.0 tbsp. of oil per 1 gal. of water. Apply at bud burst and continue every 10-14 days. Use higher rate 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 tbsp. of oil per 1 gal. of water. Postharvest applications may be made 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 tbsp. 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 tbsp. of oil per 1 gal. of water. Spray as needed. Dip: Use 2.5-5.0 tbsp. 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 Formula 3 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 is Green Tip to Delayed Dormant and for San Jose Scale is 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. Postharvest sprays may be made 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 apply to trees lacking moisture.
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.	Restriction: 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 Formula 3 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 Scales: Black, Brown Soft, California Red, Citricola, Purple, Yellow, Red	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, Scales: Black, Brown Soft, California Red, Citricola, Purple, Yellow, Red	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.	
	Mites: Citrus Bud, Citrus Flat, Citrus Red, Citrus Rust, Scales: Black, Brown Soft, California Red, Citricola, Purple, Yellow, Red	Oxnard Plains Area: Use 1.5-4.0 tbsp. of oil per 1 gal. of water. Make applications as needed throughout the year.	

CITRUS: (Florida and Texas)

CROP	PESTS	APPLICATION RATE & TIMING	COMMENTS
CITRONS GRAPEFRUITS LEMONS LIMES MANDARINS ORANGES TANGELOS TANGERINES Other citrus hybrids DO NOT APPLY TO NAVEL ORANGES.	Citrus Rust Mites, 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.	Use higher rate when disease pressure is heavy.
	Scales: Black Soft, Brown Soft, Chaff, Glover, Purple, Red, Yellow		
	Does not control Citrus Snow Scale.		
	Whitefly, Blackfly		
	Greasy Spot (Grapefruit)		
	Greasy Spot (all other varieties)		
	Loosening sooty mold		

Best results 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 Formula 3 per 1 Gallon of Water)	COMMENTS
<p>ASPARAGUS BEANS BEETS CAULIFLOWER (and other Cole crops including: broccoli, Chinese broccoli, broccoli raab, Brussels sprouts, cabbage, Chinese cabbage (bok choy and mapo), Chinese mustard cabbage (gai choy), cavalo broccoli, collards, kale, kohlrabi, Mizuna, mustard greens, mustard spinach and rape greens) CELERY CUCURBITS (including: chayote, Chinese waxgourd, citron melon, cucumber, Gherkin, hyotam, 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 and watermelon) DASHEEN (Taro)* EGGPLANT GINGER* GINSENG* HERBS AND SPICES* (Curly Leaf Basil, Lemon Balm) JAPANESE RADISH (Daikon)* LETTUCE OKRA* PEPPERS POTATO RADISH SWEET POTATO</p>	<p>Aphids, Mites, Beetle Larvae, Leafminers, Thrips, Leafhopper, Whitefly, Caterpillars, Alternaria Leafspot, Gummy Stem Blight, Powdery Mildew, Rust</p> <p>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</p>	<p>Use 2.0-4.0 tbsp. of oil per 1 gal. of water.</p> <p>Spray once or twice weekly depending on the rapid growth of the crop and/or vector pressure.</p> <p>Use 2.0 tbsp. of oil per 1 gal. of water.</p> <p>Spray as needed.</p>	<p>*Asterisk denotes crop, pest not approved in California.</p>
<p>CHINESE ARTICHOKE* (Japanese Artichoke) CILANTRO* HERBS AND SPICES* (Mexican Oregano, Mint)</p>	<p>Aphids, Mites, Beetle Larvae, Leafminers, Thrips, Leafhopper, Whitefly, Alternaria Leafspot, Gummy Stem Blight, Powdery Mildew, Rust, Pepper Psyllids, Caterpillars, 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</p>	<p>Use 2.5-5.0 tbsp. of oil per 1 gal. of water.</p> <p>Spray once or twice weekly depending on the rapid growth of the crop and/or vector pressure.</p>	<p>*Asterisk denotes crop, pest not approved in California.</p>
<p>CORN (Sweet)</p>	<p>Aphids, Mites, Leafhopper, Leafminers, Corn Earworm, Rootworm, Armyworm, Whitefly, Cercospora</p>	<p>Use 2.5-5.0 tbsp. of oil per 1 gal. of water.</p> <p>Spray as needed.</p>	
<p>TOMATOES</p>	<p>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</p>	<p>Use 2.0-4.0 tbsp. of oil per 1 gal. of water.</p> <p>Spray once or twice weekly depending on the rapid growth of the crop and/or vector pressure.</p>	<p>*Asterisk denotes crop, pest not approved in California.</p>

MISCELLANEOUS

CROP	PESTS	TIMING & APPLICATION RATE (Tablespoons of PureSpray™ GREEN Formula 3 per 1 Gallon of Water)	COMMENTS
COFFEE	Green Scale	Use 7.5-15.0 tbsp. of oil per 1 gal. of water. Use only water as a diluent. Apply when insects appear and treat as necessary at 30- to 60-day intervals. Do not exceed 18 gals. of oil per acre in a growing season.	Oil residues make picking difficult and, therefore, it is recommended waiting 30 days before picking. 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 Formula 3 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 tbsp. of oil per 1 gal. of water. Summer (Follar or Cover): Use 2.0-5.0 tbsp. of oil per 1 gal. of water. For blackspot and powdery mildew control during the summer do not exceed 4.0 tbsp. of oil per 1 gal. of water. Spray as needed.	
FOLIAGE ORNAMENTALS & BEDDING PLANTS	Aphids, Adelgids	Winter Dormant Period: Use 5.0-7.5 tbsp. of oil per 1 gal. of water. Summer (Follar or Cover): Use 2.0-5.0 tbsp. 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.
NON-FRUIT-BEARING TREES – Apple, Cherry, Peach, Pear	Mites	Use 2.5-5.0 tbsp. of oil per 1 gal. of water. Apply every 10-14 days.	
	Powdery Mildew	Use 2.5-5.0 tbsp. 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 tbsp. of oil per 1 gal. of water. Summer (Follar or Cover): Use 2.0-5.0 tbsp. of oil per 1 gal. of water. For blackspot and powdery mildew control during the summer, do not exceed 5.0 tbsp. 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 tbsp. 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 of 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.

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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 Formula 3 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, we recommend conducting 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.
AGLAONEMA ASTER AZALEAS BEGONIAS BROWALLIA CAMELLIAS CARNATION CELOSIA CHRYSANTHEMUM COLEUS COSMOS CREPE MYRTLE* DUSTY MILLER EASTER LILIES FUCHSIA* GARDENIAS GERBERA HELLIChRYSUM HIBISCUS FOLIAGE HYDRANGEA IMPATIENS* JADE PLANT MARIGOLD NEW GUINEA IMPATIENS NICOTONIA PHILEDENDRON 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 tsp. of oil per 1 gal. of water. Spray as needed.	
LEAF POLISH FOR HARDY PLANTS		Use 2.5 tsp. of oil per 1 gal. of water.	

FORMULATED FOR
 PETRO-CANADA
 385 SOUTHDOWN ROAD, MISSISSAUGA, ONTARIO, CANADA L5K 1A8

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