

MICRO FLO

SOLUBLE OIL 97 **ACCEPTED**
 Emulsifiable Oil

ACTIVE INGREDIENT:	BY WT.
Petroleum Oil	99.0%
INERT INGREDIENTS	1.0%
TOTAL	100.0%

FEB 9 2006

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 51036-139

KEEP OUT OF REACH OF CHILDREN

CAUTION

See [Side] [Back] Panel For Additional Precautions

FIRST AID	
IF SWALLOWED:	Call a poison control center or doctor immediately 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 INHALED:	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.
IF ON SKIN OR CLOTHING:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.
IF IN EYES:	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

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NOTE TO PHYSICIAN

Contains petroleum distillate - Do not induce vomiting.
Vomiting may cause aspiration pneumonia.

EMERGENCY TELEPHONE NUMBERS: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact:
(800) 424-9300 CHEMTREC (transportation and spills)
(800) 832-HELP (4357) (human health)
(800) 345-4735 ASPCA (animal health)

IMPORTANT: SOLUBLE OIL 97 Emulsifiable Oil meets the specifications of Florida Citrus Spray and Dust Schedule for spray oil designated as FC 435-66.

EPA Reg. No. 51036-139
AD 073195

EPA Est. No. 51036-GA-1

Manufactured By
MICRO FLO COMPANY
P.O. BOX 772099
MEMPHIS, TN 38117

PRECAUTIONARY STATEMENTS

Hazards To Humans and Domestic Animals

CAUTION

HARMFUL IF SWALLOWED

Avoid contact with eyes and skin. May be injurious to eyes and skin. Do not take internally. Do not get in eyes or on skin. Do not smoke while using. Flush contaminated eyes with plenty of water and get medical attention if irritation persists. Avoid breathing spray mist or vapors.

PERSONAL PROTECTIVE EQUIPMENT

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category E on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

1. Long-sleeved shirt and long pants
2. Chemical-resistant gloves, such as barrier laminate or nitrile rubber or neoprene rubber or viton
3. Shoes plus socks

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE seperately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should:

1. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet
2. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing

ENVIRONMENTAL HAZARDS

This product is toxic to fish. Do not apply directly to water, to area where surface water is present or to intertidal area below the mean high water mark. Keep out of lakes, ponds, or streams. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment or disposal of wastes. Apply this product only as specified on this label. Protective information may be obtained from your Cooperative Agricultural Extension Service.

STORAGE AND DISPOSAL

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

PESTICIDE DISPOSAL Spray mixture or rinse water that cannot be used according to label instructions must be disposed of according to applicable Federal, State or local procedures.

CONTAINER DISPOSAL Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other approved State and local procedures.

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 in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment 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 involves contact with anything that has been treated such as plants, soil, or water, is:

- 1. Coveralls
- 2. Chemical-resistant gloves, such as barrier laminate or nitrile rubber or neoprene rubber or viton
- 3. Shoes plus socks

NON-AGRICULTURAL USE REQUIREMENT

The requirement in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Keep children, pets, and other unprotected persons out of treated areas until sprays have dried.

CHEMIGATION PROHIBITION

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

RECOMMENDATIONS

SOLUBLE OIL 97 is an emulsifiable spray oil designed for use against various pests on various crops as shown on this label. This product should be diluted in water for use as directed on this label.

NOTE: Do not use oil sprays on foliage within 30 days before or after using Sulfur or Captan. Do not repeat oil sprays in less than 30 days of first applications, nor use more than twice in twelve month period. Do not spray trees or plants weakened from any cause whatsoever such as lack of moisture, excess moisture, cold or freeze damage, recent root pruning or transplanting. Avoid spraying citrus too late in the summer or the use of oil may cause difficulty in degreening of citrus fruit in the packing house or retard natural coloring on the trees. Oil sprays should not be applied to *broad leaved evergreens or **palms when freezing or near freezing temperatures may be expected within 3 weeks after spray application. Do not use on maidenhair fern, **Cocos palms, Maples, or non-woody plants unless specified. Avoid spraying trees or plants when temperatures are excessively high or low. Keep guns or spray wand in motion while spraying. Do not overlap with additional spray onto foliage or fruit

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already dry. Do not apply material that may have been left in the hose during interruptions, such as refilling. Run such material back into tank and re-mix. Protect this product from freezing temperatures as such temperatures will be harmful to the product. Use contrary to these directions may cause serious plant, crop or personal injury, unsatisfactory control or other unintended consequences.

USE PRECAUTIONS

All horticultural oils interfere with or slow plant transpiration and respiration during the period of evaporation. Phytotoxicity may result if sprayed to plants during periods of prolonged high temperature and high relative humidity. Do not spray to plants under moisture stress.

Do not use this product with dimethoate (Cygon) or fungicides such as captan (Captan), anilazine (Dyrene), folpet (Folpet), dinocap (Karathane), oxythioquinox (Morestan), or any other product containing sulfur. If possible, either keep the spray equipment used for these compounds separate from the equipment used for oil, or make sure that the sprayer is thoroughly cleaned so that no residue from these compounds remain. Do not use with dimethoate or Sevin 50W formulation (carbaryl) on deciduous fruit trees.

MIXING INSTRUCTIONS

1. Add sufficient water to the mixing tank to allow proper agitation by pump or paddles.
2. Add other desired pesticides. If wettable powder formulation, mix the water and powder thoroughly so that the powder is totally suspended in the water before the oil is added. If other pesticide to be added is an emulsifiable formulation, do so after the oil and water has been thoroughly mixed.
3. Add oil under agitation when tank is 3/4 full. Top off with water to form milky solution.
4. Maintain agitation until solution is used.
5. In small equipment lacking agitators, stir or shake diluted spray frequently during application.
6. It is important for users to read and follow all directions and restrictions on the labels of the proposed tank mix products.
7. Flush fluid in sprayer hose lines back into tank reservoir if fluid is allowed to stand for more than 20 minutes.

GENERAL INFORMATION

This product controls adelgids, aphids, lace bugs, leafhoppers, leafminers (larvae), mealybugs, mites, plant bugs, psyllids, sawfly larvae, scales, whitefly and eggs of aphids, mites and certain caterpillars on vegetables, fruits, tree nuts, certain field crops, shrubs, trees, greenhouse plants, ornamental foliage plants, and flowers. This product can be applied up to harvest.

APPLICATION INSTRUCTIONS

The target pest must be completely covered with spray. Oil residue on the plant surface often acts as a feeding and oviposition deterrent. However, the primary target is the pest

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itself as oil is a contact pesticide.

DILUTE APPLICATIONS (greater than 150 gallons spray per acre) in most cases, ensure the best coverage.

CONCENTRATE APPLICATIONS (usually from 45 to 125 gallons spray per acre) may reduce coverage and effectiveness. Concentrate application includes the use of low volume (from 10 to 100 gallons spray per acre) air-blast or air-carrier sprayers. A concentrate application can provide satisfactory results as long as the spray unit is properly engineered, calibrated, and operated. Speed of travel is extremely important. Tractor speed from 1 M.P.H. to 4 M.P.H. is recommended depending on crop, crop size and target pest.

AERIAL APPLICATIONS- Use only as an emergency application when soil conditions do not permit regular ground application. Helicopter only. Apply quantity of product shown for each listed crop for control of listed insects in sufficient water to make a minimum of 20 gals. dilute spray per acre.

TIMING THE TREATMENT

Applicator must determine the precise timing to fit local growth and climatic conditions.

DO NOT EXCEED MAXIMUM RATES OR APPLY MORE OFTEN THAN RECOMMENDED.

MAY BE USED UP TO DAY OF HARVEST

USES

TANK MIXES: This product may be mixed with other pesticides to improve the level of kill or enhance coverage. Users should read and follow all directions and restrictions on the labels of the proposed tank mix products.

FRUIT & NUT TREE APPLICATION INSTRUCTIONS

APPLICATION RATE-GAL OIL

CROP	PEST	DILUTE SPRAY PER 100 GAL WATER	CONCENTRATE PER 20-125 GAL WATER	AERIAL* MIN. 20 GAL SPRAY	TIME OF APPLICATION (STAGE OF DEVELOPMENT)
APPLE	Aphids (eggs)	2	6-8	6-8	Dormant or delayed dormant to 1/2" green
	Apple Red Bug (immature)	2	6-8	6-8	
	Mites (eggs) including European Red Mite	2	6-8	6-8	
	Scales (hard, soft)				

	Scurfy Scale	2	6-8	6-8	
	Fruit Tree Leaf Roller (eggs)	3	6-8	6-8	
		3	6-8	6-8	
APPLE (cont.)	Mites	1	4	4	Summer (foliar or cover) or post harvest. Do not apply over fruit after waxy bloom forms.
PEAR	European Red Mite (eggs)	1-2	4-6	4-6	Dormant or delayed dormant (up to and including petal fall)
	Pear Leaf Blister Mite(eggs)	3	4-6	4-6	
	Pear Psylla Scales	2	4-6	4-6	
	Fruit Tree Leaf Roller(eggs)	2	4-6	4-6	
		3	4-6	4-6	
	Two-spotted Spider Mite	1	4	4-6	Summer (foliar or cover) or post harvest
	Brown Mite	1	4	4-6	
	Pear Rust Mite	1-2	4-6	4-6	
	Pear Leaf Blister Mite	1.5-2	4-6	4-6	
	Pear Psylla	1.5-2	4-6	4-6	
ALMOND APRICOT CHERRY	Aphids(eggs)	2-3	6-8	6-8	Dormant or delayed dormant
	Tent Caterpillars				
	Fruit Tree Leaf Roller(eggs)	2-3	6-8	6-8	
	San Jose Scale	2-3	6-8	6-8	
		2	4-6	6-8	Dormant
	Mites and Scales	1-1.5	4-6	4-6	Summer (foliar or cover) or post harvest. -Application should not be made over oil sensitive varieties -Do not apply to trees lacking adequate moisture
PEACH NECTARINE	Aphids(eggs)	3	6-8	6-8	Dormant or delayed dormant
	Fruit Tree Leaf Roller(eggs)				
	Mites(eggs)				
	Peach Twiq				

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	Borer (hibernaculae)				
	Mites and Scales	1-2	4-6	4-6	Summer (foliar or cover) or post harvest.
PLUM PRUNE	Aphids (eggs) Scales Mites (eggs)	1.5-2	6-8	6-8	Dormant or delayed dormant to 1/2" green tip
	Mites Scales	1-1.5	4-6	4-6	Summer (foliar or cover) or post harvest. -Do not apply over certain fresh market fruits after bloom starts to form as the oil spray will remove the waxy bloom -Application should not be made over oil sensitive varieties
PECAN	Aphids (eggs) Scales Mites (eggs)	3	6-8	6-8	Dormant
	Aphids Mites	1-1.5	4-6	4-6	Summer (foliar or cover) or post harvest.

*Aerial application should be used only as emergency application when soil conditions do not permit regular ground application (helicopter only).

CITRUS APPLICATION INSTRUCTIONS

APPLICATION RATE-GAL. OIL

CROP	PEST	DILUTE SPRAY PER 100 GAL. WATER	LOW VOLUME* SPRAY PER 80-125 GAL. WATER	COMMENTS
Lemon and Grapefruit	Mites Scales including California Red Scale	1-1.4 1-1.6	10-20	For best results, spray during fall, early winter and spring months when Red Scale are more easily controlled and trees generally less reactive to oils. For all citrus oil sprays, ensure adequate soil moisture; leaves should not wilt before noon.
Navel* & Valencia Oranges	Mites including: Rust Mite Spider Mites	1-1.4	10-20	For low volume oil spray treatment during the spring,

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Other Citrus Varieties Including Non-Bearing	Scales including:			application should be discontinued as soon as temperatures go above 90 F during the day or relative humidity is expected to go down to 20% or below. Oils applied after Oct. may increase cold damage to trees. Oils applied in Aug. and Sept. may affect solids content and retard coloring. The addition of a tank mix pesticide will improve performance against scales.
	Black Scale	1-1.3		
	California Red Scale	1.3-1.6		
	Whitefly and Blackfly	1-1.3		
	Sooty Mold	1-1.3		

*Low volume applications require a minimum of 10 gallons of oil per acre for trees up to 10 feet in height plus 1 gallon per acre for each additional foot of average tree height. For navels, with the development of bloom, the amount of spray oil added to the 10 gallon-per-acre dosage for trees taller than 10 feet, in gallons per acre additional foot of average tree height, should be reduced to 3/4 gallon and then to 1/2 gallon at petal fall and postbloom through the June drop period.

SHADE TREE, SHRUB, ORNAMENTAL, FLOWER AND FOLIAGE PLANT, & CHRISTMAS TREE APPLICATION INSTRUCTIONS

CROP OR PLANT	PEST	GAL OIL PER 100 GAL WATER	TIME OF APPLICATION
Shade Trees* and Shrubs including Conifers, Deciduous Broadleaf Evergreens and Woody Ornamentals	Aphids Adelgids Eriophyd Mites Gall Mites Lace Bug Leaf Beetle Larvae Leaf Miner Mealybug	2-4 1-3	Winter dormant period as needed Summer (foliar or cover) as needed
	Ornamental Trees* Shrubs along City Streets, Other Rights-of-Way including Conifers, Deciduous and Broadleaf Evergreens	Psyllids (immature) Sawfly (larvae) Scales (immature) Spider Mites Whiteflies (immature)	2-3 1-2
Flowers & Foliage Plants including Roses and Other Flowering Shrubs Foliage Ornamentals and Bedding Plants	Aphids Adelgids Eriophyd Mites Gall Mites Lace Bug Leaf Beetle Larvae Leaf Miner Mealybug	2-4 1-3	Winter dormant period as needed Summer (foliar or cover) as needed
		Psyllids (immature) Sawfly (larvae) Scales (immature) Spider Mites	2-3

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	Whiteflies (immature)	1-2	Summer (foliar or cover) as needed
Christmas Trees*	Aphids	2-4	Winter
	Adelgids		
	Scale (soft & hard) (immature) Spider Mites	1-3	Summer

*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. Do not spray walnut foliage.

Caution: Spray no more than 4 times during the growing season; two 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. Fall dormant treatments are not recommended. Keep away from open blooms- bleaching and spotting has been observed with the open blooms of certain plants.

SMALL FRUIT APPLICATION INSTRUCTIONS

CROPS	PEST	GAL. OIL PER 100 GAL. WATER	TIME OF APPLICATION
Blueberry	Mites	2	Foliage
	Sawfly (eggs)	2	
	Scales	3	Dormant
Strawberry	Aphids	1	Dormant and Foliage
	Mites		

GRAPE APPLICATION INSTRUCTIONS

APPLICATION RATE- GAL. OF OIL

CROP	PEST	DILUTE SPRAY	CONCENTRATE SPRAY* (40-100 GALS. SPRAY/ACRE)	TIMING OF APPLICATION
Grape	Mealybug	4-6 Gal. with 200 to 300 Gal. Water Per Acre	Not Recommended	Dormant- a tank mix using an insecticide improves control
Grape	Mealybug	Not Recommended	4	Spray when crawlers are active and exposed- usually around early summer (around July 1)
	Leafhopper	Not Recommended	4	Best results will occur when sprayed during first brood. Sprays after grapes are more than 1/4" diameter may affect bloom.

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*Air-carrier or air-blast type sprayers strongly recommended to avoid plant injury and reduce effect on bloom of table grapes.

VEGETABLE APPLICATION INSTRUCTIONS

CROPS	PEST	GAL. OIL PER 100 GAL WATER	TIME OF APPLICATION
Asparagus Beans Beet Corn Cucurbits Pepper Radish Squash Tomato	Aphids Mites Leafminers Thrips Leafhopper Whitefly	1-2	As needed

FIELD CROP APPLICATION INSTRUCTIONS

CROPS	PEST	GAL. OIL PER 100 GAL. WATER	TIME OF APPLICATION
Corn (sweet & field) Sugar Beet	Aphids Mites Leafminers Corn Earworm, Rootworm and Armyworm Whitefly	2	As needed

INTERIOSCAPE* APPLICATION INSTRUCTIONS

CROPS	PEST	GAL. OIL PER 100 GAL WATER	TABLESPOONS OIL IN 1 GAL WATER	COMMENTS
Chrysanthemum Difffenbachia Dracaena Ferns Ficus Gardenias Jade Plant Palms Philodendron	Aphids Leafminers Mealybugs Scales Spider Mites Whitefly (immature)	1-2	2.5-5	Do not apply to plants in direct sunlight behind glass. Do not use on Coconut Palms and Maidenhair Ferns. Chrysanthemum blooms have shown phytotoxic symptoms at the higher rate. Applicator should conduct a test for phytotoxicity by treating a few specimens before making a large scale application.

*Protect floor, floor coverings, and furnishings from overspray.

MISCELLANEOUS:

Figs: Dormant or delayed dormant: Fig Scale- Use 3 gals. in 100 gal. water as a foliar spray. Mites, Mealybug, Scale- Use 2 gals. per 100 gals. water.

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Olives: Postbloom through August and Postharvest: Scales- Use 1.5 gals. per 100 gal. water. Apply at 400 to 800 gals. per acre.

Banana, Plantains: Use as needed to control Yellow Sigatoka Disease- Use 1-1.5 gal. per 100 gals. water. This application is also effective in loosening sooty mold fungus and in preventing its formation by the control of Aphids, Mealybugs, Scales and Whitefly.

Avocado (Haas Only) and Mangos: Use 1-1.5 gals. per 100 gals. water as needed to control Aphids, Mealybugs, Scales and Whitefly.

GREENHOUSE APPLICATION INSTRUCTIONS

CROP OR PLANT	PEST	TABLESPOONS OIL IN 1 GAL. WATER	GALS. OIL PER 100 GAL. WATER	SPECIFIC COMMENTS
Azalea	Aphids	2.5-5	1-2	Do not use on Coconut Palms or Maidenhair Ferns
Begonia	Fungus Gnats	2.5-5	1-2	
Camellia	Leafminers	2.5-5	1-2	Chrysanthemum and Geranium blooms have shown phytotoxic symptoms at the 2 gallon rate. *Although no problems with phytotoxicity have been seen at recommended rates, we recommend that the applicator conduct a phytotoxicity test on 1 or 2 of the specific plants that are to be treated.
Chrysanthemum	Mealybugs	2.5-5	1-2	
Crown of Thorns	Scales (soft & hard)	2.5-5	1-2	
Diffenbachia*	Spider Mites	2.5	1	
Easter Lily	Thrips	2.5-5	1-2	
Fern	Whitefly	2.5-5	1-2	
Gardenia	(immature)	2.5-5	1-2	
Geranium		2.5-5	1-2	
Hibiscus		2.5-5	1-2	
Foliage				
Jade Plant		2.5-5	1-2	
New Guinea		2.5-5	1-2	
Impatiens				
Palm		2.5-5	1-2	
Philodendron		2.5-5	1-2	
Poinsettia		2.5	1	
Portulaca		2.5-5	1-2	
Reiger Begonia		2.5-5	1-2	
Zinnia		2.5-5	1-2	
LEAF POLISH FOR HARDY PLANTS		2.5	1	

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 should be determined for each individual species of plant to be treated by conducting a small test.

CONDITIONS OF SALE AND LIMITED WARRANTY

The Directions For Use of this product reflects the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with 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 use of the product in a manner inconsistent with its labeling, all of which are beyond the control of MICRO FLO COMPANY (MICRO FLO) or the SELLER. All such risks shall be

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assumed by the Buyer.

MICRO FLO warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions For Use, subject to the inherent risks, referred to above.

MICRO FLO MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. TO THE EXTENT PERMITTED BY LAW, MICRO FLO AND THE SELLER DISCLAIM ANY LIABILITY FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. MICRO FLO and the SELLER offer this product, and the Buyer and User accept it, subject to the foregoing Conditions of Sale and Warranty which may be varied only by agreement in writing signed by a duly authorized representative of MICRO FLO.