



PACIFIC OIL™



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GENERAL INFORMATION

PACIFIC OIL™ is a botanical oil based miticide/insecticide registered to control Mites, Aphids, Whitefly, Scale and Citrus leaf miner in various horticultural crops. PACIFIC OIL is based on three natural oils emulsified in a unique surfactant system.

Features:

1. Provides a safe and effective way to control pests, while being safe to users, the environment and beneficial insects
2. No restrictions on its use and has no residues
3. Having virtually zero residual activity on beneficial insects
4. Potential resistance from overuse will not occur due to its physical mode of action
5. Classified as a “knock-down” insecticide due to its contact mode of action
6. Has some residual activity due to its repellent effects and ovicidal action (dehydration & smothering of eggs)

Mode of action:

1. Works as a penetrant of the exo-skeleton of mites and aphids to block the breathing ability of them causing death via suffocation.
2. Denatures the protective waxy cuticle of insects and their eggs causing dehydration and death.
3. Acts as a minor insect repellent.

Benefits:

1. Full organic certification allowing for use in integrated pest management (IPM) systems
2. Compatible with most commercial horticultural sprays
3. Possibility of resistance is low due to physical mode of action



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SPECIFICATION

Type of formulation:	a vegetable oil concentrate containing 838g/L emulsifiable vegetable oil
Formulation composition:	Botanical oil 85-90% w/v Emulsifiers 5-10% w/v Adjuvant 1-2% w/v

Physical-chemical properties:

Appearance	Amber coloured free flowing oil
Odour:	None
Flammability:	Non-flammable
Density:	0.919 g/L
Persistent foam:	Max. 60 mL after 1 minute
Emulsion stability:	Min. 98% after 4 hours
Flash point:	300 – 330 °C open cup, minimum / 150 °C close cup

DIRECTION FOR USE

Whitefly, Aphids, Mites

PACIFIC OIL™ should be applied in a preventative manner with an IPM system every 14 days. This will suppress Mite, Aphid and Whitefly populations to a level where predatory insects can be most effective. If a Mite, Aphid or Whitefly population “flare-up” occurs, apply PACIFIC OIL™ at the higher rate twice within 3-5 days (check label for further details).



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PACIFIC OIL™ can be applied with any type of spraying equipment. However, it is important that good coverage is achieved. For maximum efficacy against Two-spotted mites and Whitefly juveniles, spraying both sides of the leaf is recommended. Due to the aerial movement of adult Aphids and Whiteflies further applications of PACIFIC OIL™ may be needed for effective control. ULV fogging machines are not recommended for PACIFIC OIL™ applications due to a lack of oil making contact with the target insect.

Olives – Scale

Apply at the first sign of crawlers and early settlers (2nd nymphal stage) when 25-50% of eggs are hatched. Apply two sprays at 2-3 week intervals and reapply if infestation continues. The number of sprays and the interval between sprays should be determined by monitoring the rate of eggs hatching and scale development. Complete coverage of the target pest is necessary. Spray both upper and underside of leaves and branches to run-off.

PACIFIC OIL™ only effects the nymphal stages of Lace bug, therefore apply at early signs of infestation. Two sprays with a 7-10 day interval are recommended. Follow-up sprays may be needed for new infestations throughout the growing season.

Leaf miner

Begin applying when the first buds in a flush cycle open. Spray at 5-14 day intervals until most leaves within the flush cycle reach 50mm. The length of the interval between sprays will depend on the rate of growth of young leaves in that flush cycle. Ensure that the new flush leaves are sprayed both on top and underneath. Only use a rate higher than 0.75% if pest pressure is severe. Do not apply any more than 8 sprays at a concentration of 0.75% per season. Oil concentrations above 0.75% should be used at an interval of 14 days or more and should only be applied up to 4 times per season. Pruning of unwanted flushes that are damaged by Leaf miner will significantly reduce the number of sprays needed to control Leaf miner populations.



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How effective is PACIFIC OIL™?

Crop	Pest	Rate ml/L	% Control*
Tomatoes	Two-spotted mite	2.5	100
Tomatoes	Whitefly juveniles	5.0	94.8*
Tomatoes	Whitefly eggs	5.0	88.0*
Strawberries	Two-spotted mite	2.5	100
Roses	Two-spotted mite	5.0	94.6
Cucumbers	Two-spotted mite	2.5	98.9
Capsicums	Green peach aphid	2.5	92.0
Cucumbers	Green peach aphid	2.5	89.3
Olives	Lace bug	7.5	92
Olives	Scale	10	95
Citrus	Citrus leaf miner	7.5	80

* two sprays 3 days apart

* three sprays 7 days apart

CONDITIONS OF SALE

1. Seller warrants that this product consists of the ingredients specified and is suitable for the purpose stated in this brochure when used in accordance with the directions under normal conditions of use.
2. The information contained in this brochure is believed to be accurate and is intended solely for general guidance in the use of this product; it should not be construed as a guarantee of suitability for a particular application.

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