

**CAUTION**  
KEEP OUT OF REACH OF CHILDREN  
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

# BIOCLEAR<sup>®</sup>

P A R A F F I N I C O I L



ACTIVE CONSTITUENT: 815 g/L PARAFFINIC OIL (as 1888-1976)  
UNSULPHONATED RESIDUE NO LESS THAN 98.0%

A narrow range  
emulsifiable paraffinic oil for  
the management of pests  
as per Directions for Use.

20L

**IMPORTANT: READ THE ATTACHED LEAFLET BEFORE USING THIS PRODUCT**



**CALTEX**

**PRECISION**  
**SPRAY OILS**

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#### STORAGE AND DISPOSAL:

Store in the original container, tightly closed in a safe well-ventilated area, as cool as possible. Do not store for prolonged periods in direct sunlight. This container can be recycled if it is clean, dry, free of visible residues and has the *drumMUSTER* logo visible.

Triple rinse container for disposal. Dispose of rinsate by adding it to the spray tank. DO NOT dispose of undiluted chemical on site. Wash outside of the container and the cap. Store cleaned container in a sheltered place with cap removed. It will then be acceptable for recycling at any *drumMUSTER* collection point or similar container management program site. The cap should not be replaced but may be taken separately.

If not recycling, break, crush, or puncture and deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. Do not burn empty containers and product.

#### SAFETY DIRECTIONS

Will irritate the eyes and may irritate the skin. Avoid contact with the eyes and skin. When opening the container and preparing the spray, wear elbow-length PVC gloves, face shield or goggles. If product gets in eyes, wash out immediately with water. Wash hands after use. After each day's use wash gloves and face shield or goggles.

#### FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia: 131126). If swallowed do NOT induce vomiting. Give a glass of water.

#### MATERIAL SAFETY DATA SHEET

Additional information is listed in the Material Safety Data Sheet which is available from the supplier.

#### NOTICE TO BUYER

Caltex Australia Petroleum Pty Limited accepts no responsibility for any consequences whatsoever arising from the use of the product otherwise than in accordance with this label.

**Caltex Technical Advice Line: 1300-364-169**

® Bioclear is a registered trademark of Caltex Australia Petroleum Pty Ltd

APVMA Approval No: 58360/52291

Batch No:

Date of Manufacture:

20L



CALTEX

PRECISION  
SPRAY OILS



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PEEL HERE - LEAFLET INSIDE

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SPRAY OILS**



## DIRECTIONS FOR USE:

### RESTRAINTS

DO NOT spray when temperatures exceed 32°C, (except where noted for Citrus) or when soil is dry and trees are suffering from moisture stress.

# BIOCLEAR®

PARAFFINIC OIL

CROP	PEST	STATE	APPLICATION RATE	CRITICAL COMMENTS
<b>Litres of Oil in Dilute Spray per 100L Water</b>				
Apples	Mites (Eggs), including European Red Mite, Scales (Hard & Soft)	NSW, ACT, Vic, SA, WA, Tas only	2L	Dormant or delayed dormant to half green tip
		Qld only	3L	
	Mites	NSW, ACT, Vic, SA, WA, Tas only	1L	Summer (Foliar or Cover) or Post Harvest
Bananas	Cercospora Leaf Spot	NSW, ACT only	4L	Apply in combination with mancozeb at 2.2-4.5 kg / ha in 200 to 500L of water. Apply at 3-4 week intervals, from December until late April. In North Queensland the interval may be reduced to 10-14 days in the wet season.
		Qld only	3.5L	
	Cercospora Leaf Spot, Leaf Speckle	NSW, ACT, Sth Qld, WA only	5L	
	Cercospora Leaf Spot, Leaf Speckle, Cordana Leaf Spot	Nth Qld only	5L	Apply in combination with Tilt 250 EC. Spray every two weeks from the start of the wet season in December and make a maximum of 6 applications. Later use alternative fungicides if needed. Spray both sides of leaves.
Cotton	Defoliation Aid	NSW, ACT, Qld, WA only	2L	Apply in combination with thidiazuron (eg Dropp*) defoliant
	Carrier for certain ULV insecticides	NSW, Qld only	3 - 5L / ha	Apply in combination with ULV insecticides as specified on the insecticide label to ensure insecticide reaches its target.
Wetting agent / adjuvant / carrier as recommended on fungicide and insecticide labels	Refer to particular pesticide label	All States	500mL - 5L	Bioclear acts as a carrier / adjuvant / wetting agent which may improve the performance of certain pesticides. Always check pesticide label for correct rates.

CROP	PEST	STATE	APPLICATION RATE	CRITICAL COMMENTS
<b>Litres of Oil in Dilute Spray per 100L Water</b>				
Pears	European Red Mite, Eggs, Scales	NSW, ACT, Vic, SA, WA only	1 - 2L	Dormant or delayed dormant (up to and including petal fall)
		Tas only	2L	
		Qld only	3L	
	Two Spotted Spider Mite	NSW, ACT, Vic, SA, WA, Tas only	1L	Summer (Foliar or Cover) or Post Harvest
	Brown Mite, Pear Rust Mite	NSW, ACT, Vic, SA, WA, Tas only	1 - 2L	
	Pear Leaf Blister Mite	NSW, ACT, Vic, SA, Tas, WA only	1.5 - 2L	
Apricots Cherries	San Jose Scale	NSW, ACT, Vic, SA, WA only	2L	Dormant
		Qld only	3L	
	Mites and Scales	NSW, ACT, VIC, SA, Tas only	1 - 1.5L	Summer (Foliar or Cover) or Post harvest. Applications should not be made over oil sensitive varieties. Do not apply to trees lacking adequate moisture.
Almonds Peaches Nectarines	Aphids (Eggs) Mites (Eggs)	NSW, ACT, Vic, SA, WA, Tas only	2L	Dormant or delayed dormant
	San Jose Scales	NSW, ACT, Vic, SA, WA only	2L	Dormant
	Mites and Scales	NSW, ACT, Vic, SA, WA only	1 - 2L	Summer (Foliar or Cover) Post Harvest

CROP	PEST	STATE	APPLICATION RATE	CRITICAL COMMENTS
<b>Litres of Oil in Dilute Spray per 100L Water</b>				
Passion-fruit	Red Scale, Hemispherical Scale Suppression of: Passionvine Mealy Bug	All States	500mL - 1L	Please refer to the General Instructions under "Crop Safety - Passionfruit" for full details on crop safety. Apply via a low volume rate of 1000L per hectare. A minimum interval of 14 days should elapse between sprays in the first month with additional applications applied at monthly intervals for up to 6 months. Good coverage is essential for Red Scale.
Plums Prunes	Aphids (Eggs) Scales, Mites (Eggs)	NSW, ACT, SA, WA, Tas only	1.5 - 2L	Dormant or delayed dormant. To half green tip.
	Mites Scales	NSW, ACT, VIC, SA, WA, Tas only	1 - 1.5L	Summer (Foliar or Cover) or Post Harvest. Do not apply over fresh market fruits after bloom starts to form as the oil will remove the bloom. Applications should not be made over sensitive varieties.
Pecans	Aphids (Eggs) Scales, Mites (Eggs)	NSW, ACT, Qld, SA, WA, Tas only	3L	Dormant
	Aphids Mites	NSW, ACT, QLD, SA, WA, Tas only	1 - 1.5L	Summer (Foliar or Cover) or Post Harvest
Avocado	Scale Insects	Qld only	1.2 - 1.6L	Apply when heavy scale populations occur on stem, foliage or fruit.  Do not apply if trees need watering. Application is most effective against young crawler stages.
		NSW, ACT, WA only	2L	
Kiwi Fruit	Scale Insects	Qld only	1 - 1.6L	
		NSW, ACT, WA only	2L	
Custard Apple	Scale Insects	Qld only	1 - 1.7L	
		NSW, ACT, WA only	2L	
Bananas	Scale Insects	Qld, NSW, ACT, WA only	2L	
Mango	Scale Insects	Qld only	1.25L	
		WA only	2L	

CROP	PEST	STATE	APPLICATION RATE	CRITICAL COMMENTS
<b>Litres of Oil in Dilute Spray per 100L Water</b>				
Shade Trees* and Shrubs including Conifers, Deciduous Broadleaf Evergreens and Woody Ornamentals, Ornamental Trees*, Shrubs along city streets, other rights of way including Deciduous and Broadleaf Evergreens	Aphids, Scales (Immature), Spider Mites, Whitefly (immature)	NSW, ACT, VIC, SA, WA, Tas only	2 - 4L (Winter) 1 - 3L (Summer)	Winter dormant period as needed for plants that become dormant in winter.  Summer foliage (Foliar or Cover) as needed
			2 - 4L (Winter) 1 - 3L (Summer)	Winter dormant period as needed for plants that become dormant in winter.  Summer foliage (Foliar or Cover) as needed
2 - 4L (Winter) 1 - 3L (Summer)	Winter  Summer			
Flowers and Foliage Plants including Roses and other Flowering Shrubs, Foliage Ornamentals and Bedding Plants	Aphids, Scales (Immature), Spider Mites, Whitefly (immature)			
Christmas Trees	Aphids Scales (Soft & Hard) (Immature) Spider Mites			

**CAUTION:** Spray no more than 4 times during growing season with two weeks minimum application interval. Do not spray when buds are fully opened and shoot elongation is occurring. Do not spray when there is no obvious moisture in the leaf or the plant is under stress. Avoid spraying open blooms. Bleaching and spotting has been observed with open blooms of certain plants.

Oil removes the glaucous (blue) bloom from some evergreens. Always use lower dosage or test spray oil sensitive plants first - do not spray walnut foliage.

CROP	PEST	STATE	APPLICATION RATE	CRITICAL COMMENTS
<b>Litres of Oil in Dilute Spray per 100L Water</b>				
Blueberries	Mites, Scales	All States	2L	Foliage
			3L	Dormant
Strawberries	Aphids, Mites	NSW, ACT, SA, WA, Tas only	1L	Dormant and Foliage

CROP	PEST	STATE	APPLICATION RATE	CRITICAL COMMENTS
<b>Litres of Oil in Dilute Spray per 100L Water</b>				
Grapes	Mealybugs	NSW, ACT, Qld, SA, WA, Tas only	4-6 Litres with 306 to 460 Litres Water per Hectare	Dormant – A tank mix using insecticides improves control. Air carrier or Air blast type sprayers strongly recommended to avoid plant injury and reduce effect on bloom of table grapes.
	Grapevine Scale	NSW, Vic, SA, WA, Qld only	3L	Apply as a post pruning spray in mid-winter when vines are fully dormant.
		Tas only	2L	
Asparagus Beans Beet Corn Cucurbits Peppers / Capsicums Radish Squash Tomatoes	Aphids Mites Thrips Leafhopper	All States (Except Qld for beans, tomato, corn, and peppers/ capsicums)	1 – 2L	As needed
Corn (Sweet and Field) Sugar Beet	Aphids, Mites, Whitefly Bugs (immature)	NSW, ACT, SA, Tas, WA only	2L	As needed
Chrysanthemum Diffenbachia Dracaena Ferns Gardenias Jade Plant Palms Philodendron	Aphids, Mites, Whitefly Bugs (immature)	All States	1 – 2L  2.5mL – 5.0mL / L	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.

CROP	PEST	STATE	APPLICATION RATE	CRITICAL COMMENTS
<b>Litres of Oil in Dilute Spray per 100L Water</b>				
Azalea Begonia Camellia Chrysanthemum Crown of Thorns	Aphids Mealybugs Scale (Soft and Hard) Thrips Whitefly (Immature) Reduces number of Spider mites	All States	10 – 20mL / 1L or 1 – 2L / 100L	Do not apply to plants in direct sunlight behind glass. Do not use on Coconut Palms and Maidenhair Ferns, Chrysanthemum blooms have shown phytotoxicity symptoms at the higher rate.  Applicator should conduct a test for phytotoxicity by treating a few specimens before making a large-scale application.  For greenhouse pests listed use once a week initially then as the pest is controlled decrease the frequency to every 2-3 weeks as needed.
Diffenbachia*			10mL / 1L or 1L / 100L	
Easter Lilly Fern Gardenia Hibiscus Foliage Jade Plant Palm Philodendron			10 – 20mL / 1L or 1 – 2L / 100L	
Poinsettia			10mL / 1L or 1L / 100L	
Reiger Begonia Zinnias			10 – 20mL / 1L or 1 – 2L / 100L	
Hardy Plants	Leaf Polish	All States	10mL / 1L or 1L / 100L	

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<b>Litres of Oil in Dilute Spray per 100L Water</b>				
Citrus	Redscale	Vic, SA, WA only	1 – 2L	Apply in December and / or February – March
		NSW, ACT only	1.3 – 2L	
		Qld only	1L	Apply late November / early December and late January / early February if required – apply in combination with Methidathion 50mL / 100L



CROP	PEST	STATE	APPLICATION RATE	CRITICAL COMMENTS
<b>Litres of Oil in Dilute Spray per 100L Water</b>				
Citrus	White Wax Scale Pink Wax Scale	Vic, WA only	1 – 2L	Apply in December / early January period
		NSW, ACT only	2L	
		Qld only	1L	
	White Wax Scale	Tas, WA only	1.8 – 2.5L	Apply mid December / early January. Repeat in February.
	Pink Wax Scale	Tas, WA only	1.8 – 2.5L	Apply December / early January. Repeat in February.
	Black Scale	Tas, WA only	1.8 – 2.5L	Apply in January / April
	Soft Brown Scale	Tas, WA only	1.8 – 2.5L	Apply in January / April
	Citrus Leaf-miner	All States	250mL – 1L (for Citrus Leaf-miner control only) 500mL – 1L (when combining with Scale & Black Spot Control)	Apply thoroughly and evenly to flush growth, wetting both sides of all immature leaves to point of run-off. Spray every 5 to 14 days during flush periods, commencing as soon as pest's silvery mines are observed on young leaves. The interval will be shorter during summer and early autumn. Cease spraying when leaves become mature. Four sprays in one year should be sufficient to achieve control and no more than 8 sprays should be applied.
Wetting Agent if recommended on Herbicide label	Weeds as specified on herbicide label	All States	250 – 500mL	Bioclear Paraffinic Oil may be used as a crop oil in a spray mixture with selective herbicides to improve their wetting and penetrating properties.
			2L	

**NOT TO BE USED FOR ANY PURPOSE OR IN ANY MANNER CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.**

**WITHHOLDING PERIOD: DO NOT HARVEST FOR 1 DAY AFTER APPLICATION**

#### GENERAL INSTRUCTIONS:

This product controls Aphids, Lace Bugs, leaf Hoppers, Mealybugs, Mites, Plant Bugs, Scale, Whitefly, eggs of Aphids & Mites on vegetables, Fruit Trees, Nut Trees, certain field crops, Shrubs, Plantation Trees, Greenhouse Plants, Ornamental Foliage Plants and Flowers.

Bioclear Paraffinic Oil can be used in combination with certain fungicides, herbicides and insecticides as a wetting agent / adjuvant / carrier or as specified on the products label.

#### MIXING INSTRUCTIONS:

- Add water to the mixing tank to allow proper agitation by pump or paddles.
- Add other desired pesticides.
  - If wettable powder formulation – mix water and powder thoroughly so that power 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.
- Add oil under agitation when tank is  $\frac{3}{4}$  full. Top of with water to form a milky solution.
- Maintain agitation until solution is completely used.
- In a small equipment lacking agitators, stir or shake diluted spray frequently during applications.
- It is important for users to read and follow all instruction on the label of the proposed tank mixed products.
- Flush fluids in sprayer hose lines back into tank reservoir if fluid is allowed to stand for more than 20 minutes.

#### APPLICATION INSTRUCTIONS

- The target must be completely covered in spray.
- Oil residue on the plants surface often acts as a feeding and oviposition deterrent. However, the primary target is the pest itself as Bioclear Paraffinic Oil is a contact pesticide.
- Dilute applications. (Greater than 1400L spray per hectare in horticultural crops) in most cases ensure best coverage.

- Speed of travel is extremely important, tractor speed from 1.6kph to 5.4 kph is recommended, depending on crop size and target pest.
- Do not spray when shade temperatures are or exceed 32°C.

#### COMPATIBILITY

- Bioclear Paraffinic Oil can be used with such pesticides as NPV's, Bt's, Pyrethroids, Abamectin, Tracer II\*, Mancozeb and Folicur\* as stated on their respective directions for use labels.
- Do not spray oil with Dimethoate, or any other product containing sulphur.
- If possible, either keep the spray equipment used for these compounds separate from the equipment used for Bioclear Paraffinic Oil, or make sure that the sprayer is thoroughly cleaned, so that no residue from these compounds remain.
- Do not use with Carbaryl on deciduous fruit trees.

#### TANK MIXTURES

- This product may be mixed with other pesticides to improve the level of kill or enhance coverage. User should read and follow all instructions on the label of the proposed tank mixed product.

#### TIMING THE TREATMENT

- Applicator must determine the precise timing to fit local growth and climate conditions. Do not exceed maximum rates or apply more often than recommended.
- May be used up to one day before harvest.

#### CROP SAFETY – PASSIONFRUIT

The sensitivity of this product has not been tested on all Passionfruit varieties, therefore it is recommended that a small number of plants be treated in the first instance before treating the whole crop.

DO NOT exceed an application rate of 0.5% or 4 applications per year for oil sensitive varieties such as those from the Panama line (Passionfruit only).

## **PROTECTION OF LIVESTOCK, WILDLIFE, FISH, CRUSTACEANS AND THE ENVIRONMENT**

Dangerous to fish. Do not contaminate streams, rivers, waterways with chemicals or used containers.

## **PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS**

Do not apply pesticides or other chemicals incompatible with oil, within 4 weeks before or after application of any other spray oils, as crop damage may occur.

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\* Not Caltex Trademarks

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