

**CAUTION**  
**KEEP OUT OF REACH OF CHILDREN**

**BioCover<sup>®</sup>**  
**Horticultural Oil**

**ACTIVE CONSTITUENT: 840 g/L PETROLEUM OIL**

**An emulsifiable horticultural spray oil  
for the management  
of certain pests and diseases  
as specified in the Directions for Use  
in the attached booklet**

**IMPORTANT: READ THE ATTACHED BOOKLET BEFORE USE**

20 L, 208 L

AgNova Technologies Pty Ltd  
106 Rattray Road,  
Montmorency, Victoria 3094

Phone: 0423 821 395

### **STORAGE AND DISPOSAL**

Store in the closed, original container in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight.

Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point.

If not recycling, break, crush, or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

For refillable containers – Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

### **FIRST AID**

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone 13 11 26.

### **MATERIAL SAFETY DATA SHEET**

Additional detailed information is listed in the MSDS available from your supplier.

### **COMPANY WARRANTY**

The statements, technical information and recommendations contained herein are believed to be accurate. Since the conditions and methods of use of this product and of the information referred to herein are beyond our control, AgNova Technologies Pty Ltd expressly disclaims any and all liability as to any results obtained or arising from any use of this product or reliance on such information. No warranty to fitness for any particular purpose, warranty or merchantability or any other warranty, express or implied, is made concerning the goods described or the information provided herein nor shall AgNova Technologies Pty Ltd be liable for any loss, damage or injury, direct or consequential, arising out of the use of this product.

- ® BioCover is a registered trademark of Platte Chemical Co., USA
- ® Benlate is a registered trademark of E. I. DuPont de Nemours & Co. Inc., USA
- ® Tilt is a registered trademark of Syngenta Crop Protection Limited, Switzerland

APVMA Approval No. 59091/20L/0405, 59091/208L/0405

Batch No:

Date of Manufacture:

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**DIRECTIONS FOR USE****RESTRAINTS**

**DO NOT spray when shade temperatures exceed 32°C or when soil is dry and trees are suffering from moisture stress.**

CROP	PEST / DISEASE	STATE	RATE PER 100 L	CRITICAL COMMENTS
<i>Fruits</i>				
Citrus	Red Scale	Vic, SA, WA	1.2 L	Apply in December and/or February-March.
		NSW	1.3 - 2 L	
		Qld	1 L	Apply late November/early December and late January/early February if required. Apply in combination with methidathion 50 g/100 L.
	White Wax Scale, Pink Wax Scale	Vic, WA	1 - 2 L	Apply in December/early January period.
		NSW	2 L	
		Qld	1 L	Apply late November/early December and late January/early February if required. Apply in combination with methidathion 50 g/100 L, carbaryl 70 g/100 L, promecarb 50 g/100 L, soda ash 500 - 750 g/100 L or washing soda 500 - 750 g/100 L.
		Tas, WA	1.8 - 2.5 L	Apply in mid-December/early January. Repeat in February.
	Soft Brown Scale	Tas, WA	1.8 - 2.5 L	Apply in January/April.
Black Spot	NSW	200 mL	Apply in combination with Benomyl 50% WP 50 g/100 L 16 weeks after a copper spray at petal fall. Do not apply this combination to trees carrying mature fruit in order to avoid encouraging the development of tolerant strains of fungal diseases.	
Black Scale	Tas, WA	1.8 - 2.5 L	Apply mid December/early January. Repeat in February.	

CROP	PEST / DISEASE	STATE	RATE PER 100 L	CRITICAL COMMENTS
	Citrus Leafminer	All States	250 mL - 1 L for control of citrus leafminer only 500 mL - 1 L when combining with Scale and 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.
<b>Grapes</b>	Grapevine Scale	NSW, WA	3 L	May be controlled by spraying the dormant vines in Winter, preferably after pruning and when approximately 90% of crawlers have emerged.
	Mealybugs	NSW, Qld, SA, Tas, WA	4 - 6 L with 306 - 460 L 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.
<b>Apples</b>	Mites (Eggs), including European Red Mite Scales (Hard & Soft)	NSW, Vic, SA, WA, Tas	2 L	Dormant or delayed dormant to half green.
		Qld	3 L	
	Mites	NSW, Vic, SA, WA, Tas	1 L	Summer (foliar or cover) or Post Harvest.
<b>Pears</b>	European Red Mite Eggs	NSW, Vic, SA, WA, Tas	1 - 2 L	Dormant or delayed dormant (up to and including petal fall).
		Qld	3 L	
	Scales	NSW, Vic, SA, WA, Tas	2 L	
		Qld	3 L	

CROP	PEST / DISEASE	STATE	RATE PER 100 L	CRITICAL COMMENTS
	Two Spotted Spider Mite	NSW, Vic, SA, WA, Tas	1 L	Summer (foliar or cover) or Post Harvest.
	Brown Mite		1 L	
	Pear Rust Mite		1 - 2 L	
	Pear Leaf Blister Mite		1.5 - 2 L	
<b>Pome Fruit</b>	Powdery Mildew	NSW, WA	250 mL	Apply in combination with Benlate® 25 g/100 L. Begin application at green tip stage, early to-mid September and repeat at 10 – 14 day intervals, or at shorter intervals under conditions of high disease pressure until mid-November or first cover spray.
<b>Apricots Cherries</b>	San Jose Scale	NSW, Vic, SA, WA	2 L	Dormant
		Qld	3 L	
		Mites and Scale	NSW, Vic, SA, WA, Tas	1 - 1.5 L
<b>Almonds, Peaches, Nectarines</b>	Aphids (Eggs) Mites (Eggs)	NSW, SA, WA, Tas	3 L	Dormant or delayed dormant.
	San Jose Scales	NSW, Vic, SA, WA	2 L	Dormant.
	Mites and Scales		1 - 2 L	Summer (foliar or cover) or Post Harvest.
<b>Plums Prunes</b>	Aphids (Eggs) Scales Mites (Eggs)	NSW, SA, WA, Tas	1.5 - 2 L	Dormant or delayed dormant. To half green tip.
	Mites and Scales		1 - 1.5 L	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. - Application should not be made over oil sensitive varieties.
<b>Pecans</b>	Aphids (Eggs) Scales Mites (Eggs)	NSW, Qld, SA, WA, Tas	3 L	Doormat.

CROP	PEST / DISEASE	STATE	RATE PER 100 L	CRITICAL COMMENTS
	Aphids Mites		1 - 1.5 L	Summer (foliar or cover) or Post Harvest.
<b>Avocado</b>	Scale insects	Qld	1.2 L - 1.6 L	Apply when heavy scale populations occur on stems, foliage or fruit. Do not apply if trees need watering. Application is most effective against young crawler stages.
		NSW, WA	2 L	
<b>Kiwi Fruit</b>	Scale insects	Qld	1 - 1.6 L	
		NSW, WA	2 L	
<b>Custard Apple</b>	Scale insects	Qld	1 - 1.7 L	
		NSW, WA	2 L	
<b>Mango</b>	Scale insects	Qld	1.25 L	
		NSW, WA	2 L	
<b>As Spreader</b> a	All pests above	NSW, Qld, Vic, Tas, WA, SA	0.5 L	Use in combination with parathion, malathion, Bordeaux, thiram and ziram if used at low oil strengths. Spray coverage is improved with the inclusion of BioCover Horticultural Oil.
<b>Bananas</b>	Cercospora Leaf Spot	NSW, WA	4 L/ha	Apply in combination with mancozeb 2.2 - 4.5 kg/ha in 200 - 500 L of water. Apply at 3 - 4 week intervals, from December until late April. In North Qld & WA, the interval may be reduced to 10 - 14 days in the wet season.
		Qld	3.5 L/ha	
	Cercospora Leaf Spot, Leaf Speckle	NSW, Sth Qld, WA	12 L/ha	As above or apply in combination with Benlate® 300 g/ha, in at least 12 L of water. Apply as a mist, starting in November/early December and continue to apply at intervals of not more than 3 weeks until April. Cover both sides of leaves.
			5 L/ha	Apply in combination with Tilt® 250 EC, 200 - 400 mL/ha. Commence spraying in December and apply 4 to 5 times at 21 day intervals. Later use alternative fungicides if needed. Spray both sides of leaves.
	Cercospora Leaf Spot, Leaf Speckle, Cordana Leaf Spot	Nth Qld,	5 L/ha	Apply in combination with Tilt® 250 EC, 200 - 400 mL/ha. Spray every 2 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.

CROP	PEST / DISEASE	STATE	RATE PER 100 L	CRITICAL COMMENTS
	Scale Insects	Qld, NSW, WA	2 L/100 L	Apply when heavy scale populations occur on stems, foliage or fruit. Do not apply if trees need watering. Application is most effective against young crawler stages.
<b>Blueberries</b>	Mites Scales	All States	2 L 3 L	Foliage Dormant
<b>Strawberries</b>	Aphids Mites	NSW, SA, WA, Tas	1 L	Dormant and foliage
<b><i>Vegetables</i></b>				
<b>Asparagus Beans Beet Corn Cucurbits Peppers Radish Squash Tomatoes</b>	Aphids Mites Thrips Leafhopper	All States (except Qld for beans, corn, pepper and tomato)	1 - 2 L	Use as needed
<b>Corn (Sweet &amp; Field) Sugar Beet</b>	Aphids Mites Whitefly Bugs (immature)	NSW, SA, WA, Tas	2 L	Use as needed

PLANT	PEST	STATE	RATE L per 100 L water	RATE mL per L water	CRITICAL COMMENTS
<i>Other Plants</i>					
<b>Chrysanthemum</b> <b>Diffenbachia</b> <b>Dracaena</b> <b>Ferns</b> <b>Gardenias</b> <b>Jade Plant</b> <b>Palms</b> <b>Philodendron</b>	Aphids Mealybugs Scales Whitefly (immature)	All States	1 - 2 L	2.5 - 5.0 mL	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.
<b>Azalea</b> <b>Begonia</b> <b>Camellia</b> <b>Chrysanthemum</b> <b>Crown Of Thorns</b>	Aphids Mealybugs Scale (Soft & Hard) Thrips Whitefly (immature)		1 - 2 L	10 - 20 mL	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
<b>Diffenbachia *</b>	Reduces number of		1 L	10 mL	few specimens before making a large-scale application.
<b>Easter Lily</b> <b>Fern</b> <b>Gardenia</b> <b>Hibiscus</b> <b>Foliage</b> <b>Jade Plant</b> <b>Palm</b> <b>Philodendron</b>	Spider Mites		1 - 2 L	10 - 20 mL	For green house pests listed, use once a week initially, then as the pest is controlled, decrease the frequency to every 2 - 3 weeks as needed.
<b>Poinsettia</b>			1 L	10 mL	
<b>Reiger Begonia</b> <b>Zinnias</b>			1 - 2 L	10 - 20 mL	

PLANT	PEST	STATE	RATE L per 100 L water	RATE mL per L water	CRITICAL COMMENTS
<b>Hardy Plants</b>	Leaf Polish		1 L	10 mL	

PLANT	PEST	STATE	RATE per 100 L water	CRITICAL COMMENTS
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, Vic, SA, WA, Tas	2 - 4 L (Winter)	Winter dormant period as needed for plants that become dormant in winter.
			1 - 3 L (Summer)	Summer (foliar or cover) as needed.
Flowers and Foliage Plants including Roses and other Flowering Shrubs, Foliage Ornamentals and Bedding Plants			2 - 3 L (Winter)	Winter dormant period as needed for plants that become dormant in winter.
			1 - 2 L (Summer)	Summer (foliar or cover) as needed.
Christmas Trees*	Aphids Scales (Soft & Hard) (immature) Spider Mites		2 - 4 L (Winter)	Winter.
			1 - 3 L (Summer)	Summer.

\* 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.

**Caution:** Spray no more than 4 times during growing season with two  
week 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 leaves or the plant  
is under stress.  
Avoid spraying open blooms. Bleaching and spotting has been observed  
with open blooms of certain plants.

**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**

BioCover acts as an insecticide and miticide by itself and does not need other chemicals to assist it, because it smothers the designated pest/egg and suffocates it.

BioCover has no resistance problems because the mode of action is suffocation not ingestion. BioCover works very well with IPM programs.

Apply when trees are in good condition 7 - 10 days after rain or irrigation.

### ***Mixing Instructions***

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

### ***Application Instructions***

The target pest must be completely covered in spray.

Oil residue on the plant's surface often acts as a feeding and oviposition deterrent. However, the primary target is the pest itself, as oil is a contact pesticide.

Speed of travel of sprayer is extremely important. Tractor speed from 1.6 km/h to 5.4 km/h is recommended, depending on crop size and target pest.

DO NOT spray when shade temperatures are or exceed 32°C.

Dilute applications (greater than 1400 L spray per hectare) in most cases ensure best results. BioCover is a contact pesticide and is not systemic. So it requires thorough spray applications and coverage, which can only be achieved with high volume spraying.

### ***Treatment Timing***

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.

### ***Tankmixes***

BioCover may be mixed with other pesticides provided small scale testing has shown physical and biological compatibility (subject to Compatibility statement) to improve the level of kill or enhance coverage. The user should read and follow all instructions on the label of the proposed tank-mixed product.

### **Compatibility**

Do not use BioCover 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 BioCover 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.

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

Do not use within 14 days either side of an application of Captan, Chlorothalonil, Morestan, Euparen or Sulphur products as scorch or burn may result.

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.

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

Do not contaminate streams, rivers or waterways with the chemical or used containers.

### **STORAGE AND DISPOSAL**

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If not recycling, break, crush, or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

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