

**READ SAFETY DIRECTIONS**

**ECO-OIL<sup>®</sup>**

**Organic  
Miticide/Insecticide/Adjuvant**  
BOTANICAL OIL CONCENTRATE

**ACTIVE CONSTITUENT: 850 g/L EMULSIFIABLE BOTANICAL OIL**

**For the control of two-spotted mite, aphids, greenhouse whitefly, and mealybugs in ornamentals and certain crops; and black scale in olives; suppression of scales in wildflowers as specified in the Directions for Use.**

**Improves wetting and sticking of sprays**



**HIPPO Enhanced – Attracts Good bugs into your garden**

**CONTENTS (5 L, 20 L, 200 L, 1000 L)**

**Organic Crop Protectants Pty Ltd**

## **DIRECTIONS FOR USE**

### **RESTRAINTS**

**DO NOT spray Eco-Oil in temperatures exceeding 35°C**

DO NOT spray directly onto sensitive flower heads, apply to foliage only to prevent oil spotting.

DO NOT introduce predatory mites (*Phytoseiulus persimilis*) to the crop within 7 days of an Eco-Oil application.

DO NOT use through ULV fogging machines

DO NOT apply to plants suffering from heat or moisture stress

### **SPRAY DRIFT RESTRAINTS**

DO NOT allow bystanders to come into contact with the spray cloud.

DO NOT apply in a manner that may cause an unacceptable impact to native vegetation, agricultural crops, landscaped gardens and aquaculture production, or cause contamination of plant or livestock commodities, outside the application site from spray drift. Wherever possible, correctly use application equipment designed to reduce spray drift and apply when the wind direction is away from these sensitive areas.

DO NOT apply unless the wind speed is between three and 20 kilometres per hour at the application site during the time of application.

DO NOT apply if there are hazardous surface temperature inversion conditions present at the application site during the time of application. Surface temperature inversion conditions exist most evenings one to two hours before sunset and persist until one to two hours after sunrise.

INSECTICIDE USE			
CROP	PEST	RATE	CRITICAL COMMENTS
Ornamental and floriculture crops including wildflowers, tomatoes, cucumbers, capsicums and strawberries including in covered growing situations	Two-spotted mite ( <i>T. urticae</i> )  Aphids  Sooty mould	375-500 mL of product to 100 L of water or 5 mL of product to 1 L of water or 50 -75 mL of product to a 15 L knapsack	Regularly monitor plants for two-spotted mite and aphids and apply spray when they first appear. Apply two sprays 3-5 days apart. Use the higher rate when numbers are high. Repeat applications at signs of reinfestation but not within 7 days of last spray. Spray both upper and underside of leaves to run-off. DO NOT apply more than three sprays to a crop within a 4-8 week period.
Nursery and greenhouse grown tomato, cut flower and ornamental crops including wildflowers.	Greenhouse whitefly ( <i>Trialeurodes vaporariorum</i> )	500 mL of product to 100 L of water 5 mL of product to 1 L of water or 75 mL of product to a 15 L knapsack	Apply spray when pest first appears in the crop. Apply two sprays 3-5 days apart. Repeat applications at sign of reinfestation but not within 7 days of last spray. Complete coverage of the target pest is necessary. Spray both upper and underside of leaves to run-off. DO NOT apply more than three sprays to a crop within a 4-8 week period.
Ornamental plants	Mealybugs Sooty mould	1 L of product to 100 L of water or 10 mL of product to 1 L of water	Apply at early signs of Mealybugs and Scale. Apply two sprays at 7 day intervals. Repeat applications at signs of reinfestation. Spray upper and underside of leaves and branches to run-off.
Olive trees	Black scale		
Wildflowers	Suppression of nymphs only: Soft brown scales ( <i>Coccus</i> spp.) Waratah scale ( <i>Pseudaulacaspis brimblecombei</i> )		Apply at early signs of scale. Target mobile nymph stage of the population for effective overall suppression. Apply two sprays at 7 day intervals. Repeat applications at signs of reinfestation. Spray upper and underside of leaves and branches to run-off.

**SPRAY ADDITIVE FOR PESTICIDES AND FOLIAR FERTILISERS – TO IMPROVE WETTING AND STICKING OF SPRAYS**

<b>SPRAYER</b>	<b>DOSE RATES</b>	<b>CRITICAL COMMENTS</b>
Boom Spray	250 mL-500 mL/ha	Use the lower rate when using low dose rate chemicals.
Hand gun (spot spraying)	250 mL/100 L	-
Orchard Plantation Vineyard Tree crops	250 mL/100 L or 2-3 L/ha	Maintain agitation during application.
CDA	1-2L/ha	-
Knapsack	30-50 mL/10 L	Shake knapsack if it has been allowed to stand for any length of time.
Aerial	1-2 L/ha	-

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

**WITHHOLDING PERIOD: Not required when used as directed**

## **GENERAL INSTRUCTIONS**

Eco-Oil is a botanical oil based miticide/insecticide that controls pests by contact. As such complete coverage of crop is important for effective control. For best results, spray with Eco-Oil at the first sign of pest infestation. Repeat application may be necessary as Eco-Oil has minimal residual activity.

## **PRECAUTION – Crop Safety**

**Warning:** Eco-Oil has been tested on a limited range of plant species for phytotoxic reactions. Some plant species are more sensitive than others so it is recommended that a pre-test be conducted before using. For further details on how to conduct a pre-test for plant safety contact the manufacturer. Maidenhair ferns may show commercially unacceptable phytotoxic symptoms. The application of more than three sprays over a 4-8 week period may cause unacceptable phytotoxicity.

## **WHEN USED AS AN INSECTICIDE**

1. Half fill the spray tank or vat with clean water.
2. Add the required amount of Eco-Oil while agitating and top up the tank with water. Because Eco-Oil is formulated to be an imperfect emulsion (oil comes out of solution after 7-10 minutes), agitation (shaking) of the spray tank is recommended prior to and during application.

## **WHEN USED AS AN ADJUVANT**

1. Eco-Oil must always be pre-mixed where possible with the chosen agricultural chemical spray concentrate prior to adding to the water in the spray tank or knapsack etc.
  - For small volumes of spray, cream Eco-Oil thoroughly with the applicable spray concentrate in an appropriate container.
  - When preparing large volumes of spray, mix Eco-Oil with the spray concentrate in a separate blending unit.
2. Initially test-mix a small quantity of the spray concentrate into Eco-Oil. If the spray concentrate does not readily emulsify, add a very small amount of water prior to adding Eco-Oil.
  - If the spray concentrate is a wettable powder or dispersible granular formulation add water to the foliar spray on a one to one basis and mix into a slurry. Add this mixture to the measured amount of Eco-Oil and follow the mixing instructions.
3. One-third fill spray tank with water.
4. Add the premixed spray to the water in the spray tank.
5. Top up the spray tank with the required amount of water while agitating continuously.

### **NOTE:**

Recommended tank mixes can be carried by Eco-Oil. Measure out the total volume of Eco-Oil required. Mix each individual product into the Eco-Oil one by one. DO NOT mix products together and then add Eco-Oil.

### **COMPATIBILITY**

Eco-Oil can be used in conjunction with other products; such as fungicides, insecticides and foliar nutrients but always pretest new mixes.

Eco-Oil is compatible with most commonly used agricultural and horticultural products except the following;

**DO NOT USE WITH DITHIANON, CHLOROTHALONIL, or BORDEAUX sprays.**

## PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DO NOT contaminate wetlands or watercourses with this product or used containers.

## STORAGE AND DISPOSAL

KEEP OUT OF REACH OF CHILDREN

Store in the closed, original container, in a dry, cool, well ventilated area out of direct sunlight. Triple 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 deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm 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 or product.

### **Refillable containers:**

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

## SAFETY DIRECTIONS

Avoid inhalation of spray mix. When used as an adjuvant always refer to the First Aid, Safety Directions and other Precautionary instructions on the label of the tank mix partner.

## FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126, New Zealand 0800 764 766.

## SAFETY DATA SHEET

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

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Batch Number	
Date of Manufacture	
APVMA Approval Number	85574/128186

