

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

**Kendon**

# **PERMEKIL**

## **Emulsifiable Concentrate Insecticide**

**ACTIVE CONSTITUENT: 500g/L PERMETHRIN (40:60)**

**SOLVENT: 426g/L LIQUID HYDROCARBONS**

**GROUP 3A INSECTICIDE**

**FOR THE CONTROL OF CERTAIN INSECT PESTS  
ON CROPS AS PER THE DIRECTIONS FOR USE.**

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



**2.5L**

**AN AUSTRALIAN OWNED COMPANY**

**Kendon Plant Care Pty Ltd, 10 Abbott St, Fairfield Vic 3078 Ph 03 9497 5247**



### **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 collections 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 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers should not be burnt.

### **SAFETY DIRECTIONS**

Product is harmful if swallowed. Will irritate the eyes, nose, throat and skin. Avoid contact with eyes and skin. DO NOT inhale spray mist. When opening the container and preparing spray, wear elbow-length PVC gloves and face shield. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, face shield and contaminated clothing.

### **FIRST AID**

If poisoning occurs, contact a Doctor or Poisons information Centre.  
**(Telephone Australia: 13 11 26).**

### **SAFETY DATA SHEET**

For further information refer to the Safety Data Sheet, available from  
Kendon Plant Care Pty Ltd.

#### **GHS HAZARD STATEMENTS**

Combustible liquid. Causes skin irritation.  
Causes serious eye irritation. May cause respiratory irritation (mists). May cause an allergic skin reaction. Suspected of causing cancer. Repeated exposure may cause skin dryness or cracking. Very toxic to aquatic life  
Very toxic to aquatic life with long lasting effects.

**IN A TRANSPORT EMERGENCY  
DIAL 000  
POLICE or FIRE BRIGADE**

**For specialist emergency advice:  
(03) 9497 2822**

**APVMA No. 58066 / 0404**

**Batch No: DOM:**



**CONDITIONS OF SALE:** The product as supplied is of high grade and believed to be suitable for any purpose for which it is expressly supplied and must be used in accordance with the directions for use given on this label. No responsibility is accepted in respect of this product, save those non-excludable conditions implied by The Trade Practices Act or any applicable State Legislation.

**POISON****KEEP OUT OF REACH OF CHILDREN  
READ SAFETY DIRECTIONS BEFORE OPENING OR USING****Kendon  
Permekil****Emulsifiable Concentrate Insecticide****Active Constituent: 500g/L PERMETHRIN (40:60)****Solvent: 426g/L LIQUID HYDROCARBONS****GROUP 3A INSECTICIDE**For the control of certain insect pests on crops  
as per Directions For Use.**IMPORTANT: Read this leaflet before using this product.**

APVMA No: 58066/0404

Kendon Plant Care Pty Ltd  
10 Abbott Street, Fairfield VIC 3078 • Ph: 03 9497 2822  
AN AUSTRALIAN OWNED COMPANY**Directions For Use****Tree and Vine Crops**

Crop	Pest	States	Application Rate		Withholding Period	Critical Comments
			Ground Application			
Citrus Non-bearing trees only	Citrus leaf miner ( <i>Phyllocnistis citrella</i> )	NSW & WA	Dilute Spraying: 10ml / 100L water Concentrate Spraying: Refer to the Application Section		-	During period of leaf flush, nursery plants should be sprayed every 21 days when evidence of active citrus leaf miner infestation is present. A spray or dip should be applied prior to dispatch of plants from nurseries which are located in areas where the citrus leaf miner is known to occur. Sprays and dips should ensure thorough wetting of foliage. Apply by dilute or concentrate spraying equipment. Apply the same total amount of product to the target crop whether applying this product by dilute or concentrate spraying methods.

**Non Tree and Vine Crops**

Crop	Pest	States	Application Rate			Withholding Period	Critical Comments
			Ground / ha	Aerial / ha	High Volume		
Cabbages, Cauliflower, Brussels Sprouts, Broccoli	Cabbage Moth ( <i>Plutella xylostella</i> ), Cabbage White Butterfly ( <i>Pieris rapae</i> )	All States	100ml in 600L - 1000L water <b>PLUS</b> 10ml / 100L Kendral 600	-	10ml / 100L <b>PLUS</b> 10ml / 100L Kendral 600  Spray to run-off	2 Days	Add Kendral 600 to the spray mixture. Apply Permekil at the first sign of infestation, and then as pest population indicates.
	Cabbage Cluster Caterpillar ( <i>Crociodolomia binotalis</i> ), Cabbage Aphid* ( <i>Brevicoryne brassicae</i> ), Green Peach Aphid ( <i>Myzus persicae</i> ), *suppression only.	QLD & WA	10ml / 100L Kendral 600				
	Cluster Caterpillar ( <i>Spodoptera litura</i> )		200ml in 600L - 1000L water <b>PLUS</b> Kendral 600		20ml / 100L water <b>PLUS</b> 10ml Kendral 600 Spray to run-off		
Celery	Lucerne Leaf Roller ( <i>Merophyes divulsana</i> )	WA	-		50ml / 100L	1 Day	Apply every 7 days commencing 1 week after planting out up to within 2 days of harvest. Thorough application essential. Use wetting agent.
Field Peas	<i>Helicoverpa punctigera</i>	TAS & WA	150ml - 250ml in 200L - 500L water	150ml - 250ml in 20L - 30L water	-	2 Days	Apply at flowering as pest populations indicate. Use higher rate when larvae larger than 1cm are present.
Green Beans	Native budworm ( <i>Helicoverpa punctigera</i> )	All States	150ml - 200ml in 200L - 500L water	150ml - 200ml in 20L - 30L water		3 Days	
	Tobacco budworm ( <i>Helicoverpa armigera</i> )	QLD, NSW, VIC, SA & WA					
Green Peas	<i>Helicoverpa spp.</i>	NSW & WA	150ml - 200ml in 200L - 500L water	150ml - 250ml in 20L - 30L water			Apply from flowering as pest populations indicate. Use higher rate when larvae larger than 1cm are present.
Lettuce	Cluster caterpillar ( <i>Spodoptera litura</i> )	QLD & WA	10ml - 20ml / 100L	-		2 Days	Apply as populations indicate. Use higher rate when larvae larger than 1cm are present.
Linseed	<i>Helicoverpa punctigera</i>	TAS & WA	200ml - 300ml in 30L - 100L water	200ml - 300ml in 10L - 30L water		7 Days	
Nurseries, Flowers and other Ornamentals except Ferns	<i>Helicoverpa spp.</i> , Light brown apple moth ( <i>Epiphyas postvittana</i> )	All States	100ml - 200ml in 1000L water	-	10ml - 20ml / 100L  Spray to run-off	-	Apply as pest populations indicate. Use higher rate when larvae larger than 1cm are present. <b>Note:</b> Permekil may cause leaf burn on some species when more than one spray is used.
Potatoes	Potato moth ( <i>Phthorimaea operculella</i> )		150ml - 200ml in 100L - 250L water	150ml - 200ml in 30L - 100L water	15ml - 20ml / 100L  Spray to run-off	2 Days	Treat infestation in early stages and then at 2 to 3 week intervals or as necessary. Use higher rate for dense canopy or if large larvae are present in vines.

## Non Tree and Vine Crops Cont...

Crop	Pest	States	Application Rate			Withholding Period	Critical Comments
			Ground / ha	Aerial / ha	High Volume		
Sweet Corn	<i>Helicoverpa spp.</i>	All States	100ml - 200ml in 200L - 450L water	-	15ml - 20ml / 100L Spray to run-off	2 Days	Spray at tassel emergence, then at 3 to 7 day intervals as necessary.
		NSW, VIC, TAS, SA & WA	-	250ml in 20L - 30L water	-		
		QLD	-	200ml in 20L - 30L water	-		
Sugar Cane	Common Armyworm ( <i>Mythimna convecta</i> ), Northern Armyworm ( <i>P. Separata</i> ), Sugar Cane Armyworm ( <i>Leucania loreymimima</i> ), Sugar Cane Looper ( <i>Mocis frugalis</i> )	QLD, WA & NSW	-	100ml - 200ml in 20L - 30L water	-	-	Apply as pest population indicates. Use higher rate if larvae larger than 1cm are present.
Tobacco	Tobacco Budworm ( <i>Helicoverpa armigera</i> ), Native Budworm ( <i>Helicoverpa punctigera</i> ), Cluster Caterpillar ( <i>Spodoptera litura</i> ).	QLD, NSW, VIC & WA	100ml - 200ml in 250L - 600L water	-	10ml - 20ml / 100L Spray to run-off	2 Days	Spray as indicated by crop checking. Usually a minimum interval is 7 days. Good spray coverage is essential. Use the higher rate when large larvae (more than 10mm) are present.
Tomatoes	Tomato Grub ( <i>Helicoverpa armigera</i> )	QLD, NSW, VIC, SA & WA	100ml - 200ml in 500L - 1500L water	-	15ml - 20ml / 100L Spray to run-off	2 Days	Apply as pest populations indicate from flowering. Usually 7 to 14 day intervals are required between sprays, with higher rates and shorter intervals necessary for continuous high pest incidence.
	Native Budworm ( <i>Helicoverpa punctigera</i> )	All States					
	Green Looper ( <i>Chrysodeixis spp.</i> ), Potato Moth ( <i>Phthorimaea operculella</i> )	QLD, NSW, SA & WA					
Wheat, Oats & Barley	Common Armyworm ( <i>Mythimna convecta</i> ), Southern Armyworm, Barley Grub ( <i>Persectania ewingii</i> )	All States	100ml - 200ml in 30L - 100L water	100ml - 200ml in 20L - 30L water	-	3 Days	Apply as pest populations indicate. Use higher rate if larvae larger than 1cm are present.
	WA Webworm ( <i>Hednota spp.</i> )	SA & WA	50ml in 30L - 100L water	50ml in 10L - 30L water			
	Pink or Common Cutworm ( <i>Agrotis spp.</i> )		25ml in 30L - 100L water	25ml in 10L - 30L water			

### 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 THE FOLLOWING CROPS FOR THE NUMBER OF DAYS SHOWN AFTER APPLICATION:

1 Day	Celery
2 Days	Cole crops, Field peas, Lettuce, Potatoes, Sweet corn, Tobacco, Tomatoes
3 Days	Green peas, Green beans, Wheat, Oats, Barley
7 Days	Linseed

#### GENERAL INSTRUCTIONS

##### Mixing

Mixes readily with hard or soft water.  
Add the required amount of product to water while under agitation. Agitate while spraying.

#### APPLICATION

##### Dilute Spraying (Citrus Only)

- Use a sprayer designed to apply high volumes of water up to the point of run-off and matched to the crop being sprayed.
- Set up and operate the sprayer to achieve even coverage throughout the crop canopy. Apply sufficient water to cover the crop to the point of run-off. Avoid excessive run-off.
- The required water volume may be determined by applying different test volumes, using different settings on the sprayer, from industry guidelines or expert advice.
- Add the amount of product specified in the Directions for Use table for each 100L of water. Spray to the point of run-off.
- The required dilute spray volume will change and the sprayer set up and operation may also need to be changed, as the crop grows.

##### Concentrate Spraying (Citrus Only)

- Use a sprayer designed and set up for concentrate spraying, (that is a sprayer which applies water volumes less than those required to reach the point of run-off), and matched to the crop being sprayed.
- Set up and operate the sprayer to achieve even coverage throughout the crop canopy using the chosen water volume.
- Determine an appropriate dilute spray volume, (see Dilute Spraying above), for the crop canopy. This is needed to calculate the concentrate mixing rate.
- The mixing rate for concentrate spraying then can be calculated in the following way:

##### Example only

- Dilute spray volume as determined above: For example 1500L / ha.
  - The chosen concentrate spray volume: For example 500L / ha.
  - The concentration factor in this example is: 3 x (i.e. 1500L ÷ 500L = 3).
  - If the dilute label rate is 10ml / 100L, then the concentrate rate becomes 3 x 10, that is 30ml / 100L of concentrate spray.
- The chosen spray volume, amount of product per 100L of water, and the sprayer set up and operation may need to be changed as the crop grows.
  - For further information on concentrate spraying, users are advised to consult relevant industry guidelines, undertake appropriate competency training and follow industry Best Practices.

#### Compatibility

This product may be combined in the spray vat with any one of the following products: Kendral 600, Copper Oxychloride, Omite\* and Pirimor. When combined with Copper Oxychloride the spray mixture must be agitated. This product is not to be mixed with more than one of these products or with any other product.

#### Insecticide Resistance Warning

**GROUP 3A INSECTICIDE**

For insecticide resistance management, Permekil Insecticide is a Group 3A Insecticide.

Some naturally occurring insect biotypes resistant to Permekil Insecticide and other Group 3A Insecticides, may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if Permekil Insecticide or other Group 3A Insecticides are used repeatedly. The effectiveness of Permekil Insecticide on resistant individuals could be significantly reduced. Since the occurrence of resistant individuals is difficult to detect prior to use, Kendon Plant Care Pty Ltd accepts no liability for any losses that may result from the failure of Permekil Insecticide to control resistant insects.

Permekil Insecticide may be subject to specific resistance strategies. For further information contact your local supplier, Kendon Plant Care representative or local department of agriculture agronomist.

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

DO NOT contaminate neighbouring crops or pastures with concentrate, spray or washings.

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

Dangerous to bees. Dangerous to fish. DO NOT spray on any plants in flower while bees are foraging. Never repack from this container. DO NOT contaminate fish ponds, dams, drains, rivers or streams with the chemical or used container. DO NOT discharge waste liquid into waterways.

#### Spillages

Liquid spillages should be absorbed into pumice or vermiculite, NOT SAWDUST, and disposed of safely. Refer AVCARE Guidelines on Disposal of Spills. Contaminated area to be washed down, cold water washings to be prevented from entering any surface water drains. During decontamination, operators should wear overalls, rubber boots, face shield or goggles.

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