

*Text appearing above this line does not form part of the label*

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**POISON**

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

**KENDON CARBARYL WETTABLE  
GRANULE INSECTICIDE**

**ACTIVE CONSTITUENT: 800 g/Kg CARBARYL  
(AN ANTI-CHOLINESTERASE COMPOUND)**

**GROUP 1A INSECTICIDE**

For the control of certain insects in fruit and vegetable crops; and for certain other uses as specified in the Directions for Use table.

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

**NET CONTENTS: 1, 10, 10x1 Kg**



**APVMA APPROVAL No: 68322/58104**

**Kendon Plant Care Pty Ltd**  
10 Abbott Street  
Fairfield, MELBOURNE, 3078  
Phone: (03) 9497 2822

**AN AUSTRALIAN OWNED COMPANY EST 1950**

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## **KENDON CARBARYL WETTABLE GRANULE INSECTICIDE**

### **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 empty containers and deliver for appropriate disposal at an approved waste management facility. If an approved waste management facility is not 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 in compliance with relevant Local, State or Territory government regulations. Empty containers and product should not be burnt.

Do not dispose of undiluted chemicals on site. Excess and unwanted chemicals should be registered for collection through the national ChemClear® or equivalent collection and disposal program.

### **SAFETY DIRECTIONS**

Product is poisonous if absorbed by skin contact or swallowed. May irritate the eyes and skin. Avoid contact with eyes and skin. Do not touch or rub the eyes, nose and mouth with hands, when handling granules. When opening the container and preparing the spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and a washable hat and elbow-length chemical resistant gloves. If product on skin or in eyes, wash it out immediately with water. 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 and contaminated clothing

### **FIRST AID**

If swallowed, splashed on skin or in eyes, or inhaled, contact a Poisons Information Centre (Phone Australia 131126, New Zealand 0800 764 766) or a doctor at once. Remove any contaminated clothing and wash skin thoroughly. If swallowed, activated charcoal may be advised. Give atropine if instructed.

### **MATERIAL SAFETY DATA SHEET**

Additional information is listed in the Material Safety Data Sheet, which can be obtained from Kendon Plant Care Pty Ltd.

### **CONDITIONS OF SUPPLY**

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.

**Batch Number:**

**Date of Manufacture:**

<p>In a Transport Emergency Dial 000 Police or Fire Brigade</p>
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### **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 recycling or disposal. Add rinsings to spray tank. If recycling or returning for reuse, replace cap and return rinsed clean containers to recycler, designated collection or refilling point. If not recycling or returning for reuse, break, crush, or puncture rinsed container and deliver empty packaging for appropriate disposal to drumMuster, an approved recycling program or accredited waste management facility. Containers and their product must not be burnt. Do not re-use empty containers for any other purpose.

Do not dispose of undiluted chemicals on site. Excess and unwanted chemicals should be registered for collection through the national ChemClear® or equivalent collection and disposal program.

### **SAFETY DIRECTIONS**

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**APVMA APPROVAL No: 68322/58104**

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## Directions for Use

### Restraints

DO NOT apply by air.

DO NOT make more than four applications per season to avocados.

DO NOT make more than three applications per season to mangoes.

DO NOT use this product in the home garden

### SPRAY DRIFT RESTRAINTS

DO NOT allow spray to drift off-target onto sensitive areas including (but not limited to) natural streams, rivers, waterways, wetlands, waterbodies, watercourses or neighbouring properties.

**Table 1: Tree and vine crops**

Crop	Pests	Rate	Critical comments
Avocados (NSW & Qld)	Monolepta beetle	130 g/100L	Apply at first sign of infestation and repeat as swarms re-infest.
Coconut: non-flowering & non-fruiting trees only	Palm leaf beetle	125 g/100L water or 1.4 Kg/ha	Apply at first sign of pest activity and repeat as necessary.
Orange and Lemon	Citrus leaf-eating weevil Lightbrown apple moth	100 – 130 g / 100L	Apply at first sign of pest activity and repeat at intervals of 2 weeks or as necessary. Use higher rate where high insect pressure occurs.
	Fuller's Rose weevil	100 – 130 g / 100L	Spray lower parts of the trees and ground only beneath when attack noticed. Use higher rate where high insect pressure occurs.
	White scale wax	90 g/100L & 1L Summer Oil	Spray trees thoroughly to run off. Two applications necessary early Dec, and again in late January – early February.
	Bronze orange bug Spined citrus bug	65 g/100L	Apply at first sign of activity and repeat spray as necessary.
	Orange fruit borer, Yellow peach moth	130 g/100L	Apply at first sign of activity and repeat spray as necessary.
	Pink wax scale	90 g/100L & 1L Summer Oil	Apply at first sign of activity and repeat spray as necessary.
Grapes (butt treatment only)	Cutworms	130 g/100L	Apply to the base of vine
Longans and Litchis -only non-flowering / non-fruiting trees	Yellow peach moth, Macadamia nut borer, Monolepta beetles, Rhyparida beetles, Leaf roller, Red shouldered leaf beetle.	125 g/100L water.	Apply at first sign of pest activity and repeat spray as necessary. Thorough coverage of foliage is necessary.
Macadamias	Macadamia nutborer	130 g/100L	Four sprays at 2-3 weekly intervals during late Nov to Feb. Direct the spray to nut clusters.
	Macadamia twig-girdler	130 g/100L	Two sprays – one in spring and again in autumn. Spray on appearance of pest. Do not spray flowers.

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<b>Crop</b>	<b>Pests</b>	<b>Rate</b>	<b>Critical comments</b>
Mangoes	Flattids, Pink wax scale	90g / 100L	Apply in December
	Fig leafhoppers		Apply when pest appears on fruit stalks (Oct-Nov)
Pome fruit Apples, pears	Codling moth, Lightbrown apple moth, Pear leaf blister mite	130 g/100L	Do not apply to apples or pears earlier than 4 weeks following full bloom if reduction in fruit set is not desired. Do not apply to McIntosh apples before the second cover spray. Do not apply to York variety of apples. Apply at first sign of pest activity in the spring. Repeat as necessary at 3-4 week intervals.
	Pear and cherry slug	130 g/100L	Apply at first sign of pest activity. Repeat as necessary at 3-4 week intervals.
	Fruit thinning	100 – 130g / 100L	Apply to apples and pears between 7 and 28 days following full bloom. Should other factors be likely to cause thinning, apply this product with caution. Do not add wetting agents or spray in cold, wet conditions. If no reduction in fruit set is desired, do not apply this product within 30 days following full bloom.
Stone fruit Apricots, nectarines, peaches, plums, prunes only (not cherries)	Light brown apple moth, Oriental fruit moth, Native budworm	100 – 130g / 100L	Apply at first sign of pest activity and repeat at intervals of 2 weeks or as necessary. Use higher rate where high insect pressure occurs.
	Fruit tree borer	180 g/100L	Apply to areas of trunks and limbs showing damage by fruit tree borer. Ensure that the protective webbing and surrounding bark is thoroughly saturated. Allow some spray to enter the tunnel in which the larvae shelter during the day. Apply by jet or course spray. Apply twice at 21 day intervals during winter.

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**Table 2: Fruit and vegetables**

Crop	Pest	Rate	Critical comments
Melons and other flowering cucurbits - up to time of flowering only	Budworms( <i>Heliothis spp.</i> ), pumpkin beetle, 28-spotted ladybird	100 – 130g / 100L	Apply at first sign of pest activity and repeat spray as necessary.
Potatoes	Potato moth	1.4kg/ha	Use sufficient water to obtain thorough coverage. Commence when moth activity first observed and repeat spray as necessary.
Raspberry	Light brown apple moth, Heliothis, Mealy Bug, Rutherglen Bug, weevils, Armyworm.	125 g/100L water	Apply at first sign of pests and repeat as required.
Root vegetables - Beetroot, turnips (Swede), only	Brown vegetable weevil	190g / 100L	Apply at first sign of pest activity and repeat as necessary.
Sweet Potato	Sweet potato weevil	125g/100L water or 1.4kg/ha	Apply at first sign of pest activity and repeat as necessary

**Table 3: Field crops and pastures**

Crop	Pest	Rate	Action taken
Cereals (including maize and sorghum)	Australian plague locust, wingless grasshopper, yellow-winged locust, migratory locust	700g – 900 g/ha	Apply when pest appears and repeat as necessary. Use higher rate where high insect pressure occurs. Use sufficient water for adequate coverage
Duboisia	Sandal-box hawk moth, Cluster caterpillar, Leaf eating ladybirds, Australian plague locust, Grasshopper.	130g / 100L	Apply as necessary
Lucerne	Lucerne leaf roller	1.0 - 1.4 kg / ha	Apply when pest appears and repeat as necessary. Use higher rate where high insect pressure occurs. Use sufficient water for adequate coverage.
	Native budworm, Leaf hopper.	1.4 kg/ha	Use sufficient water for adequate coverage.
	Lucerne flea	320 g/ha	Apply 3-5 weeks after opening autumn rains and repeat as necessary.
Pastures, pasture seed crops	Yellow-winged locust, migratory locust, Australian plague locust	750-875g/ha	Apply when pests first appear and repeat as necessary. Use higher rates on adults. <b>WARNING:</b> Some cultivars of tropical pasture legumes may develop phytotoxic symptoms after use.

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**Table 4: Ornamentals**

Situation	Pest	Rate	Critical comments
Elm Trees	Elm leaf beetle	2.5 kg / 100L	Apply to the trunk of the tree in December when the larvae are first observed on leaves. A repeat spray should be applied 4-6 weeks later if large numbers of larvae are found on the leaves. To the trunk of a tree, apply a half meter wide band at a height of 1.5 metres or above. On large trees, the upper surface of branches where they meet the trunk should also be sprayed. Apply the spray to the trunk at (a rate of) no more than 1000 mL per m <sup>2</sup> .- The larvae are exposed to the chemical when they crawl down the trunk to pupate. This treatment will not eradicate the pest but will protect the tree from serious defoliation.
		125g / 100L	If large numbers of larvae threaten to defoliate small specimen trees, a carbaryl spray may be applied to the foliage. Repeat spray when required. This treatment will not eradicate the pest but will protect the tree from serious defoliation.
Ornamentals	Green vegetable bug, potato moth, European earwig, cabbage white butterfly, cabbage moth, native budworm, loopers, leaf-eating ladybird, pumpkin beetle	130g / 100L	Apply at first sign of pest activity and repeat as necessary. NOTE: Because of the wide range of ornamentals and their pests, phytotoxicity and efficacy of this product cannot be guaranteed, so use a small test area before widespread use.

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

**WITHHOLDING PERIODS (WHP):**

**HARVEST**

Coconuts (non-flowering & non-fruiting), Cucurbits (flowering), Grapes (Butt treatment), Macadamia nuts, Longan and Litchi:

**WITHHOLDING PERIOD NOT REQUIRED WHEN USED AS DIRECTED.**

Avocadoes, oranges, lemons, beetroot, potato, sweet potato, turnips (swede):

**DO NOT HARVEST FOR 3 DAYS AFTER APPLICATION.**

Mangoes and Raspberries:

**DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION.**

Cereals:

**DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION**

Stone fruit:

**DO NOT HARVEST FOR 5 WEEKS AFTER APPLICATION**

Pome fruit:

**DO NOT HARVEST FOR 11 WEEKS AFTER APPLICATION.**

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## **GRAZING**

Pasture:

**DO NOT GRAZE OR CUT FOR STOCKFOOD FOR 7 DAYS AFTER APPLICATION.**

Cereals and Lucerne:

**DO NOT GRAZE OR CUT FOR STOCKFOOD FOR 14 DAYS AFTER APPLICATION**

## **GENERAL INSTRUCTIONS: INSECTICIDE RESISTANCE WARNING**

GROUP	<b>1A</b>	INSECTICIDE
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For insecticide resistance management KENDON CARBARYL WETTABLE GRANULE INSECTICIDE is a Group **1A** insecticide. Some naturally occurring insect biotypes resistant to KENDON CARBARYL WETTABLE GRANULE INSECTICIDE and other Group **1A** insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if KENDON CARBARYL WETTABLE GRANULE INSECTICIDE or other Group **1A** insecticides are used repeatedly. The effectiveness of KENDON CARBARYL WETTABLE GRANULE 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 KENDON CARBARYL WETTABLE GRANULE INSECTICIDE to control resistant insects. KENDON CARBARYL WETTABLE GRANULE INSECTICIDE may be subject to specific resistance management strategies. For further information contact your local supplier, Kendon Plant Care representative or local agricultural department agronomist.

### **Export of Treated Produce**

Growers should note that MRLs or import tolerances do not exist in all markets for edible produce treated with KENDON CARBARYL WETTABLE GRANULE INSECTICIDE. If you are growing edible produce for export, please check with Kendon Plant Care Pty. Ltd. for the latest information on MRLs and import tolerances **BEFORE** using KENDON CARBARYL WETTABLE GRANULE INSECTICIDE.

### **Mixing**

This product may be mixed with hard or soft water. Fill tank half full of water, add KENDON CARBARYL WETTABLE GRANULE INSECTICIDE and mix thoroughly, then add remainder of water and mix again. When using as a tank mix with spray oils, add the product **AFTER** thoroughly mixing the oil with water in the spray tank. Maintain agitation while filling and spraying.

### **Spills**

Immediately clean up any spills during loading and mixing and dispose of appropriately. Ensure granules are not washed into drains or left exposed to people or non-target animals.

### **Application**

Good pest control and fruit thinning (pome fruit) requires even, thorough coverage of the target area. Application should be made using appropriate spray equipment and sufficient water to provide adequate penetration and coverage. Equipment settings and water volume may need to vary, depending on the growth stage of the crop.

Do not apply under weather conditions, or from spraying equipment, which could be expected to cause spray to drift onto adjacent crops, crop lands, pastures or livestock.

### **Special Instructions for Tree and Vine Crops**

#### **Dilute Spraying**

- Use a sprayer designed to apply high spray volumes, 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 spray volume to cover the crop to the point of run-off. Avoid excessive run-off.
- The required spray volume to achieve point of run-off may be determined by applying different test volumes, using different settings on the sprayer, or from industry guidelines or other expert advice.
- Add the amount of product specified in the Directions for Use table for each 100 L of water. Spray to the point of run-off.

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- The required dilute spray volume to achieve point of run-off will change and the sprayer set up and operation may also need to be changed, as the crop grows

#### **Concentrate Spraying**

- Use a sprayer designed and set up for concentrate spraying (that is a sprayer which applies spray 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 your chosen spray 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 can then be calculated in the following way:  
EXAMPLE ONLY
  1. Dilute spray volume as determined above: For example 1500 L/ha
  2. Your chosen concentrate spray volume: For example 500 L/ha
  3. The concentration factor in this example is: 3 X (i.e. 1500 L 500 L = 3)
  4. If the dilute label rate is 200 mL/100 L, then the concentrate rate becomes 3 x 200; that is 600 mL of product per 100 L water for concentrate spraying.
- The chosen spray volume, amount of product per 100 L, 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**

KENDON CARBARYL WETTABLE GRANULE INSECTICIDE may be combined with any ONE of the following products: copper oxychloride, dimethoate, sulphur, summer spray oil, thiram, zineb and ziram. DO NOT mix with Lime Sulphur, Bordeaux mixture or other alkaline materials. When the addition of summer oil (eg KENDON ALL SEASONS WHITE OIL PESTICIDE) is required, firstly add the summer oil to the water in the tank and then add the pre-mixed KENDON CARBARYL WETTABLE GRANULE INSECTICIDE. Always maintain agitation while mixing and spraying. The compatibilities are given based on experience and are considered correct. However, as changes in climatic conditions can alter the sensitivity of plants to mixtures of chemical products, Kendon Plant Care Pty. Ltd. accepts no responsibility for the behaviour of any such mixtures. All mixtures should be tested prior to mixing commercial quantities.

#### **PRECAUTIONS**

##### **RE-ENTRY PERIODS**

- Do not allow entry into treated areas until the product has dried on treated areas after application, when conducting activities such as hand set irrigation, unless wearing cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each day's use.
- Do not allow entry into treated areas until Day 6 after application, when conducting activities such as hand harvesting after airblast and groundboom applications, unless wearing cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each day's use.
- Do not allow entry into treated areas until the product has dried, when conducting activities such as handling and pruning of treated elm trees, unless wearing cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each day's use.
- Do not allow entry by the public into treated areas until the product has dried.

##### **PROTECTION OF LIVESTOCK**

Dangerous to bees. DO NOT spray any plants in flower while bees are foraging.

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

DO NOT contaminate streams, rivers or waterways with the chemical or used containers.