

**LABEL**

David Grays Carbaryl 500 Flowable Insecticide

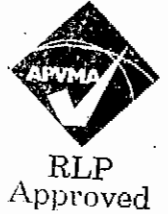
DATE: 7 May 2012

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**POISON**

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



**DAVID GRAYS**

**Carbaryl 500 Flowable Insecticide**

**ACTIVE CONSTITUENTS: 500 g/L CARBARYL**

(an anticholinesterase compound)

GROUP	<b>1A</b>	INSECTICIDE
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For the control of certain Insects in fruit, nuts, Vegetable, Crops and Pastures and for certain other uses as specified in the Directions for Use Table

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

**NET CONTENTS: 5L, 20L**

APVMA Approval No: 52213/56745

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8/5/12  
[Signature]

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David Grays Carbaryl 500 Flowable Insecticide

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**David Grays Carbaryl 500 Flowable Insecticide**

**RESISTANT INSECTICIDE WARNING**

GROUP	<b>1A</b>	INSECTICIDE
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For insecticidal resistance management, David Grays Carbaryl 500 Flowable Insecticide is a Group 1A Insecticide. Some naturally occurring insect biotypes resistant to David Grays 500 Flowable Insecticides 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 David Grays Carbaryl 500 Flowable Insecticide or other Group 1A Insecticides are used repeatedly. The effectiveness of David Grays Carbaryl 500 Flowable Insecticide on resistant individuals could be significantly reduced. Since occurrence on resistant individuals is difficult to detect prior to use, David Grays & Co. Pty. Ltd. accepts no liability for any losses that may result from the failure of David Grays Carbaryl 500 Flowable Insecticide to control resistant insects. David Grays Carbaryl 500 Flowable Insecticide may be subject to specific resistance management strategies. For further information contact your local supplier David Gray & Co. Pty. Ltd. representative or local agricultural department agronomist.

**COMPATIBILITY:**

David Grays Carbaryl 500 Flowable Insecticide may be combined in the spray vat with any of the following formulated compounds-Copper-oxchloride, Maldison, Mancozeb, Parathion-methyl, Pirimicarb, Pirimphos-methyl, Propargite, Surfactant, Thiram, Ziram. A mixture of David Grays Carbaryl 500 Flowable Insecticide with more than one of these products or with any other product may be ineffective or may cause serious damage. The use of such a mixture is not recommended and would therefore be entirely at the user's risk.

DO NOT apply in combination with summer oil on apples and pears. Combinations with Borax should be used immediately after preparation. DO NOT use with highly alkaline materials such as Bordeaux mixture or lime sulphur. Residues can affect colouring of red varieties. The efficacy of and plant tolerance to David Grays Carbaryl 500 Flowable Insecticide applied alone or in combination with compatible products may be affected by climatic conditions during and after application. David Grays Carbaryl 500 Flowable Insecticide of such combinations should not be applied during abnormally hot, cold and slow drying conditions.

**SPRAY DRIFT STATEMENT**

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.

**PROTECTION OF LIVESTOCK, WILDLIFE, FISH, CRUSTACEA AND THE ENVIRONMENT**

DO NOT contaminate streams, rivers, waterways, water used for irrigation, drinking or other domestic purposes, with the chemical or used containers.

**STORAGE AND DISPOSAL**

Store in closed original containers, in a cool, well ventilated area away from children, animals, food and feedstuffs. 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

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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.

**SAFETY DIRECTIONS**

Avoid bare skin contact with treated surface for 7 days. Poisonous if swallowed. May irritate eyes and skin. Avoid contact with eyes and skin. When opening container, preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist, a washable hat, elbow-length rubber gloves. After each day's use, wash gloves and contaminated clothing.

**FIRST AID**

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26. If swallowed do not induce vomiting. Give a glass of water.

For further information, refer to **MSDS available from David Gray & Co. Pty Ltd on the website: [www.davidgray.com.au](http://www.davidgray.com.au)**

**WARRANTY**

David Grays makes no warranty expressed or implied, concerning the use of this product other than that indicated on the label. Except as so warranted the product is sold as is. Buyer and user assume all risk of use and/or handling and/or storage of this material when such use and/or handling and/or storage is contrary to label instructions.

**Batch No:**

**Date of Manufacture:**

David Gray & Co Pty Ltd ACN: 008 671 127  
2 Rawlinson Street  
O'Connor WA 6163  
Phone: (08) 9337 4933

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*[Signature]*

**LABEL.**

David Grays Carbaryl 500 Flowable Insecticide (Leaflet)

DATE: 7 May 2012

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**POISON**

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



**DAVID GRAYS**  
**Carbaryl 500 Flowable Insecticide**

**ACTIVE CONSTITUENTS: 500 g/L CARBARYL**

(An anticholinesterase compound)

GROUP	IA	INSECTICIDE
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For the control of certain Insects in fruit, nuts, Vegetable, Crops and Pastures and for certain other uses as specified in the Directions For Use Table

**IMPORTANT: READ THIS LEAFLET BEFORE USE**

**NET CONTENTS: 5L, 20L**

APVMA Approval No: 52213/56745

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David Grays Carbaryl 500 Flowable Insecticide (Leaflet)

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## David Grays Carbaryl 500 Flowable Insecticide

**DIRECTIONS FOR USE****Restrictions:**

DO NOT apply by air

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

DO NOT use this product in the home garden

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.

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CROP/SITUATION	PEST/INSECT	RATE	W.H.P.	CRITICAL COMMENTS
Cucurbits (melons and other cucurbits, prior to flowering)	Heliothis (Budworms), Pumpkin Beetle, 28 Spotted Lady Bird, cucurbit stem borer, wingless grasshopper, green vegetable bug, leaf eating ladybird, cutworm, European earwig, potato moth, Rutherglen bug, Armyworm.	200ml per 100L water	Withholding period not required when used as directed (applied up to the time of flowering only).  DO NOT harvest for 3 days after application.	Spray when infestation and pest activity is first observed and thereafter as necessary. (Cucurbits – only to be used for melons and other flowering cucurbits, up to time of flowering.)
Oranges and Lemons	White Wax Scale Pink Wax Scale.	140ml & 1L Summer Oil/100L water		Spray trees thoroughly to run off (dripping) in late November to early December and again in late January and early February. Add oil to water in vat before David Grays Carbaryl 500 Flowable Insecticide.
	Orange Fruit Borer	160ml-200ml/100L water		Apply at first sign of pest activity and repeat at intervals of 2 weeks or as necessary. Use higher rate when insect pressure is high.
	Light Brown Apple Moth Yellow Peach Moth	100ml/100L water		
	Spined Citrus Bug Bronze Orange Bug	100ml/100L water		
Duboisia	Cluster Caterpillar, Sandal-bark Hawk Moth, Leaf-eating Ladybird, Australian Plague Locust, Grasshoppers.	200ml/100L water or 2.2L/ha	1 Day	Apply when pests appear and repeat as necessary.
Grapes (stem treatment)	Cutworm	160ml-200ml/100L water	Withholding period not required when used as directed (for stem treatment for cutworm only).	Apply around base of plant. Use higher rates when insect pressure is high.
Macadamia	Macadamia Nut Borer, Cornelian (Butterfly) Yellow Peach Moth, Macadamia Twig Girdler, Macadamia Nut Moth.	200ml/100L water or 2.2L/ha	Withholding period not required when used as directed.	Apply as a preventative spray after moths have been fighting.
Mangoes	Fig Leaf Hopper	200ml/100L water	DO NOT harvest for 7 days after application.	Apply when large population appear on leaf stalks (Oct-Nov)
	Pink Wax Scale, Flatid Planthoppers	140ml/100L water		
POME FRUITS Apples, Pears	Codling Moth, Light Brown Apple Moth, Pearleaf Blister Mite.	160ml-200ml/100L water	DO NOT harvest for 11 weeks after application.	Apply at intervals at 3 weeks commencing with the emergence of the first adults in spring. Do not apply to apples and pears within 4 weeks after full bloom if reduction in fruit set is to be avoided.
	Fruit Thinning	160-200ml per 100L water	DO NOT harvest for 11 weeks after application.	A careful appraisal of all factors likely to thin the crop should be made before spraying. If reduction in fruit set is desired between 7-28 days after full bloom.
Potatoes	Potato Moth	2.2L/ha or 200ml/100L water	DO NOT harvest for 3 days after application.	Apply in sufficient water to obtain good coverage, commencing at first sign of moth activity one or two further sprays at 3-4 week intervals may be required.
STONE FRUIT Peaches, Apricots  Nectarines, Plums, Prunes ONLY	Light Brown Apple Moth, Oriental Fruit Moth, Green Tree Hopper, Pear and Cherry Slug	160ml-200ml/100L water	DO NOT harvest for 5 weeks after application.	Apply at peak emergence of oriental fruit moth as determined by lure counts, or as soon as pest activity becomes evident, and thereafter at 2-4 week intervals or as required. DO NOT use on cherries

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**DAVID GRAYS CARBARYL 500 FLOWABLE INSECTICIDE**

DIRECTIONS FOR USE Cont.

DAVID GRAYS CARBARYL 500 FLOWABLE INSECTICIDE.

CROP/SITUATION	PEST/INSECT	RATE	W.H.P.	CRITICAL COMMENTS
Beetroot, Turnip (Swede)	Heliothis (Budworms), Pumpkin Beetle, wingless grasshopper, cabbage white butterfly, green vegetable bug, leaf eating ladybird, cutworms, European earwig, potato moth, Rutherglen bug, Cabbage Moth	160-200ml/100L water	Withholding period not required when used as directed	Apply when pests appear and repeat as necessary. Use higher rate when insect pressure is high
FIELD CROPS & PASTURES Cereals, Sorghum	Rutherglen Bug, Heliothis Spp. Army-Worm, Cutworms	160-200ml/100L water or 1.8-2.2L/ha	DO NOT harvest crop, graze or cut for stockfeed for 14 days after application	Apply at first sign of pest activity.
Lucerne	Lucerne Leafroller	1.7-1.8L/ha	7 days for grazing or cutting for stockfeed	Apply at first sign of pest activity. Repeat as necessary. Ensure full coverage.
	Sitona Weevil	1.8L/ha		
	Leaf Hoppers & Budworms	2.2L/ha		
	Lucerne Flea	500ml/ha		
Pastures, Pasture Seed Crops	Grass Caterpillar	1.1L/ha	7 days for grazing or cutting for stockfeed	Apply when pest appears and repeat as necessary.
	Yellow Winged Locust	1.2 or 1.4L per ha		Apply when pest appears and repeat as necessary.
	Migratory Locust			Use higher rate for adult locusts or when pressure is high.
	Australian Plague Locust	2.2L/ha		Apply 4 weeks after opening rains
	Pasture Cockchafer (Aphodius tasmaniae)			Spray at first sign of infestation and repeat as necessary.
Army Worm Budworm (Heliothis)				
MISCELLANEOUS Disinfestation of Grain Storage Buildings.	Lesser Grain Borer (Rhyzopertha dominica)	10ml/L per 10 square metres		Spray to run off on all types of surfaces.
PEST GENERAL Non-crop commercial and industrial Areas	European Earwigs	1.1-1.4L per 100L water		Spray liberally on exterior walls of houses and outbuildings. Cover also boundary fences and breeding places such as woodpiles and rockeries
	Plague Locusts Grasshoppers Wingless Grasshoppers			For treatment of swarms by high volume ground equipment. Use sufficient volume of water to get a good coverage, usually between 220-1100 litres to each hectare.
PEST GENERAL Industrial and External Domestic Areas	European Earwigs	80ml/15L water knapsack		Spray thoroughly all surfaces to be treated. Do not use as a space spray.

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	Vespid Wasps (English/European Wasps)	130-320mL water		Pour or squirt down the entrance to underground nests or spray semiconcealed nests. Apply at night and wear protective clothing and veil to avoid stings.
	Honey Bees	1.1L/100L water		Spray into nests in the open and in enclosed cavities where the nest is close to the entrance used by the bees. Destroy the nest if accessible. Do not use honeycomb - destroy or bury it. Apply at night and wear protective clothing and veil to avoid stings.
Ornamentals	Tobacco Leaf Miner, Potato Moth, European Earwig, Cabbage White Butterfly, Rutherglen Bug, Green Vegetable Bug, Leafeating Ladybird, Heliothis, Pumpkin Beetle, Cutworms	200ml/100L water or 2.2L/ha		Apply when pests appear as necessary. NOTE: Because of the wide range of ornamentals and their pests, phytotoxicity and efficacy of this product can not be guaranteed, so use a small test area before widespread use.
	Wingless Grasshoppers	175ml/100L water		
Tobacco Bulk Sheds	Tobacco Beetle	200ml/10L		Spray all surfaces. Apply 5L of prepared spray per 100 square metres.

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

**GENERAL INSTRUCTIONS**

GROUP	1A	INSECTICIDE
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**MIXING**

David Grays Carbaryl 500 Flowable Insecticide is a shake and pour formulation, which is non-flammable, Flowable liquid, which is white in colour. It contains no petroleum solvents.

Shake well before use. Slowly add the required amount of this product to the water in the spray tank under agitation.

**CRITICAL APPLICATION DETAILS**

When using as a tank mix with Spray Oils, add the product AFTER thoroughly mixing the oil with water in the spray tank.

**WITHOLDING PERIODS**

- CEREAL GRAINS: DO NOT harvest for 14 days after application. DO NOT graze or cut for stock food for 14 days after application
- PASTURES and LUCERNE: DO NOT graze or cut for stock food for 7 days after application.
- Oranges, Lemons, Sweet Potato, Potato, Turnips (Swede): DO NOT harvest for 3 days after application.
- Mangoes: DO NOT harvest for 7 days after application.
- Stone fruit (except cherries): DO NOT harvest for 5 weeks after application.
- Pome fruit: DO NOT harvest for 11 weeks after application.
- Cucurbits (flowering): Withholding period not required when used as directed (applied up to the time of flowering only)
- Macadamia nuts, Pecan nuts: Withholding period not required when used as directed.
- Grapes: Withholding period not required when used as directed (for stem treatment for cutworm only).

**Re-entry periods:**

**Ornamental Plants:**

Do not allow entry into treated areas or re-handling of treated plants by workers or members of the public for 8 days after treatment. When prior entry is required wear rubber gloves and cotton overalls buttoned to the neck and wrist. Clothing and gloves must be washed after each day's use.

**Nursery Stock:**

Tree crops in containers. Do not allow entry into treated areas or re-handle treated plants for 1 day after treatment. When prior entry or re-handling is required wear rubber gloves and cotton overalls buttoned to the neck and wrist. Clothing and gloves must be washed after each day's use.

**All other crops:**

Do not allow entry into treated areas for 1 day after treatment. When prior entry is required wear rubber gloves and cotton overalls buttoned to the neck and wrist. Clothing and gloves must be washed after each day's use.

**IMPORTANT:**

Several days of high humidity or rain after spraying may result in some damage to tender foliage.

**PRECAUTIONS – POME FRUIT:**

DO NOT use on Quinces. DO NOT use on McIntosh and York varieties of apples. DO NOT apply to Delicious and Williams Favourite apples before, during and shortly after frost as russet may occur. DO NOT apply in combination with summer oil on apples and pears as fruit spotting may occur.



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**FRUIT THINNING:**

Application may cause russet to Delicious and Williams Favourite when applied before, during or after frost. Some leaf burn may occur on tender foliage if humidity is very high for several days after application. Residues can affect colouring of red varieties.

**PROTECTION OF LIVESTOCK, WILDLIFE, FISH, CRUSTACEA AND THE ENVIRONMENT**

DO NOT contaminate streams, rivers, waterways, water used for irrigation, drinking or other domestic purposes, with the chemical or used containers.

**STORAGE AND DISPOSAL**

Store in closed original containers, in a cool, well ventilated area away from children, animals, food and feedstuffs. Do not store for prolonged periods in direct sunlight.

Triple or preferably pressure rinse containers before disposal. Add rinsing 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.

**SAFETY DIRECTIONS**

Avoid bare skin contact with treated surface for 7 days. Poisonous if swallowed. May irritate eyes and skin. Avoid contact with eyes and skin. When opening container, preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist, a washable hat, elbow-length rubber gloves. After each day's use, wash gloves and contaminated clothing.

**FIRST AID**

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26. If swallowed do not induce vomiting. Give a glass of water.

For further information, refer to **MSDS** available from David Gray & Co. Pty Ltd on the website: [www.davidgray.com.au](http://www.davidgray.com.au)

**WARRANTY**

David Grays makes no warranty expressed or implied, concerning the use of this product other than that indicated on the label. Except as so warranted the product is sold as is. Buyer and user assume all risk of use and/or handling and/or storage of this material when such use and/or handling and/or storage is contrary to label instructions.

**Batch No:**

**Date of Manufacture:**

David Gray & Co Pty Ltd  
2 Rawlinson Street  
O'Connor WA 6163  
Phone: (08) 9337 4933

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2/5/12  
