

CONTENTS

DIRECTIONS FOR USE	2
RESTRAINTS	2
SPRAY DRIFT RESTRAINTS	2
DIRECTIONS FOR USE TABLE	4
WITHHOLDING PERIODS	7
EXPORT SLAUGHTER INTERVAL (ESI) – 7 DAYS	8
EXPORT OF TREATED PRODUCE	8
GENERAL INSTRUCTIONS	8
Mixing	8
Application	8
INSECTICIDE RESISTANCE WARNING	9
Resistance management strategy	9
COMPATIBILITY	9
PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT	9
PROTECTION OF HONEY BEES AND OTHER INSECT POLLINATORS	9
STORAGE AND DISPOSAL	9
SAFETY DIRECTIONS	9
FIRST AID	10
SAFETY DATA SHEET	10
EXCLUSION OF LIABILITY	10
GHS STATEMENTS	10

READ SAFETY DIRECTIONS BEFORE OPENING OR USING



ACTIVE CONSTITUENT: 200 g/L TETRANILIPROLE

GROUP 28 INSECTICIDE

For the control of various pests in various crops as specified in the DIRECTIONS FOR USE table

DIRECTIONS FOR USE

RESTRAINTS

DO NOT apply by aircraft.
DO NOT apply if heavy rains or storms are forecast within 3 days.
DO NOT irrigate to the point of field runoff for at least 3 days after application.
DO NOT apply in the Fitzroy region where vineyards contain a bare soil interrow.

SPRAY DRIFT RESTRAINTS

Specific definitions for terms used in this section of the label can be found at apvma.gov.au/spraydrift.

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. The buffer zones in the relevant buffer zone tables below provide guidance but may not be sufficient in all situations. 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 3 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.

Boom sprayers

DO NOT apply by a boom sprayer unless the following requirements are met:

- spray droplets not smaller than a COARSE spray droplet size category
- minimum distances between the application site and downwind sensitive areas (see 'Mandatory buffer zones' section of the following table titled 'Buffer zones for boom sprayers') are observed.

		Mandatory downwind buffer zones					
Application rate	Boom height above the target canopy	Bystander areas	Natural aquatic areas	Pollinator areas	Vegetation areas	Livestock areas	
Lin to 200 ml /ba	0.5 m or lower	0 m	0 m	0 m	0 m	0 m	
0p to 200 mL/na	1.0 m or lower	0 m	25 m	0 m	0 m	10 m	

Buffer zones for boom sprayers



Vertical sprayers

DO NOT apply by a vertical sprayer unless the following requirements are met:

- spray is not directed above the target canopy
- the outside of the sprayer is turned off when turning at the end of rows and when spraying the outer row on each side of the application site
- for dilute water rates up to the maximum listed for each type of canopy specified, minimum distances between the application site and downwind sensitive areas (see 'Mandatory buffer zones' section of the following table titled 'Buffer zones for vertical sprayers') are observed.

Buffer zones for vertical sprayers

Type of target capopy	Mandatory downwind buffer zones							
and dilute water rate	Bystander	Natural	Pollinator	Vegetation	Livestock			
and didte water rate	areas	aquatic areas	areas	areas	areas			
Tree and Vine crops - 2								
metres tall and shorter,	_	_	-	-	_			
maximum dilute water rate	0 m	5 m	0 m	0 m	0 m			
of 1000 L/ha								
Vine crops - taller than 2								
metres, maximum	0 m	15 m	0 m	0 m	0 m			
application rate of 300								
mL/na								
metros (net fully feliated)								
metres (not fully-foliated),	0 m	25 m	0 m	0 m	10 m			
of 3000 L/ba	UIII	25 111	UIII	UIII	10 111			
Tree crops - taller than 2								
metres (fully-foliated)								
maximum dilute water rate	0 m	15 m	0 m	0 m	5 m			
of 3000 L/ha								



DIRECTIONS FOR USE TABLE

CROP	PEST	RATE	WHP	CRITICAL COMMENTS
Almonds	Carpophilus	12.5 mL/	Н	Monitor orchards before and during hull split for the
	beetles	100 L	10 days	presence of carpophilus beetles. If numbers have
	(incl. Carpophilus			the potential to cause economic loss, apply at early
	near dimidiatus)			to mid-hull split to control carpophilus beetles
				present in the orchard.
				Apply a maximum of two applications per crop
				with the second application 14 - 21 days later if
				there is a continual influx of carpophilus beetles
				from surrounding areas. Kernel damage can still
				occur if carpophilus beetles enter the orchard just
				prior to harvest, when the shell is open, and feed
				directly on the kernel.
				Ensure thorough coverage of the target crop as
				thorough coverage of all hulls is essential – refer
				Application section in GENERAL INSTRUCTIONS.
				Concentrate spraying for this pest is not
				A pen ionic wetter should be added at label rates
				Do not apply more than 200 mL of Vayage per
				bottaro in a single application
				Vavego should form part of an integrated program
				to manage carpophilus beetle populations with a
				focus on orchard hygiene.
	Carob moth			1st generation pest control
	(Ectomvelois			Monitor carob moth activity during spring (after
	ceratoniae)			flowering). If pest numbers exceed thresholds, a
	,			late spring application (Oct - Nov) will provide
				control of eggs and larvae present in mummy nuts,
				reducing carob moth numbers in the orchard prior to
				hull split.
				2nd generation pest control
				Apply Vayego at early hull split (typically 1 - 5% hull
				split) to provide control over the main egg laying
				period.
				Ensure thorough coverage of the target crop as
				thorough coverage of all hulls is essential – refer
				'Application' section in GENERAL INSTRUCTIONS.
				Concentrate spraying for this pest is not
				appropriate.
				A non-ionic wetter should be added at label rates.
				Do not apply more than two applications per
				Season in each crop. Do not apply more than
				application
	1	1		application.



CROP	PEST	RATE	WHP	CRITICAL COMMENTS
Table grapes only	Light brown apple moth (<i>Epiphyas</i> <i>postvittana</i> syn <i>Tortrix</i>	7.5 mL/100 L	7 days	Light brown apple moth Monitor for light brown apple moth activity. Apply at 140 day degrees after biofix (first flight) to control the new generation.
	postvittana), grapevine moth (Phalaenoides glycinae)	10		Grapevine moth Apply when local grapevine moth economic thresholds have been reached (1st or 2nd instar larvae).
	Weevils e.g. apple weevil (<i>Otiorhynchus</i> <i>cribricollis</i>), Fuller's rose weevil (<i>Asynonychus</i> <i>cervinus</i>),	10 mL/100 L		Weevils Once weevil activity is observed in the canopy and local thresholds have been met, apply a single application ensuring thorough coverage. If weevil emergence extends over a significant timeframe, a second application may be required.
	garden weevil (<i>Phlyctinus</i> <i>callosus</i>) Mediterranean fruit fly (<i>Ceratitis capitata</i>)	12.5 mL/100 L		Mediterranean fruit fly Commence applications when monitoring indicates fruit fly activity and fruit are vulnerable to damage (e.g. fruit ripening) in the lead up to harvest. Apply a second application 7 - 10 days later. The addition of a non-ionic wetter at label rates may provide an increase in control
				General Do not apply more than two applications per season in each crop. Do not apply more than 300 mL of Vayego per hectare in a single application. To ensure safety to honeybees, do not apply during flowering. Apply up to 7 days before flowering and/or post-flowering. Do not apply at greater than 3X concentration.
Macadamias	Sigastus weevil (macadamia seed weevil, <i>Kuschelorhynchus</i> <i>macadamiae</i>)	12.5 mL/ 100 L	H 10 days	Monitor the weevil population and commence applications when weevils are active and after petal fall. Apply with a 14 - 28 day interval between applications as required until shell hardening. Do not apply more than three applications per season in each crop. Apply as a dilute application ensuring thorough and uniform spray coverage of foliage and branches – refer 'Application' section in GENERAL INSTRUCTIONS. Do not apply more than 300 mL of Vayego per hectare in a single application. The addition of a non-ionic wetter e.g. Agral 600 added at 10 mL/100 L of spray solution, may improve control. Vayego should be used as part of an integrated pest management approach which should include the use of other measures for control of sigastus weevil.



CROP	PEST	RATE	WHP	CRITICAL COMMENTS
Mangoes	Mango seed weevil (<i>Sternochetus</i> <i>mangiferae</i>)	10 mL/ 100 L	H 3 days	Monitor the weevil population and commence applications when weevils are active in the canopy. Ideally apply early post flowering to control weevil feeding on the fresh foliage flush and protect young fruit from mango seed weevil. Applications must occur prior to fruit becoming susceptible to weevil egg lay which generally occurs when fruit reach 30 mm in diameter. Do not apply before or during flowering. A follow up application at a 21 - 28 day interval may be required under high or repeat pest pressure situations or in situations where crop tolerance to weevils damage is low. Apply as a dilute application ensuring thorough and uniform spray coverage of foliage and branches – refer 'Application' section in GENERAL INSTRUCTIONS. Do not apply more than two applications of Vayego per season in each crop. Do not apply more than 300 mL of Vayego per hectare in a single application. Vayego 200 SC should be used as part of an integrated pest management approach which should include the use of other measures for control of mango seed weevil.
Maize,	Fall armyworm	200	Maize	Monitor crops from emergence. Commence
sweet corn	(Spodoptera frugiperda)	mL/ha	H & G 14 days Sweet corn H & G 1 day	applications when monitoring indicates the presence of fall armyworm eggs or larvae from two leaf stage onwards. Target sprays against eggs and newly hatched larvae before they become established. Apply a maximum of three sprays with 5 - 7 day intervals between applications. Ensure thorough coverage of the target crop – refer 'Application' section in GENERAL INSTRUCTIONS. Only apply up to the V15 stage (when 15th leaf collar is visible), or after pollen shed (around 1 week after tassel is fully emerged). Note: This use is subject to a CropLife resistance management strategy. Refer to www.croplife.org.au for more information.
Pome fruit	Codling moth (<i>Carpocapsa</i> <i>pomonella</i> syn <i>Cydia pomonella</i>), light brown apple moth (<i>Epiphyas</i> <i>postvittana</i> syn <i>Tortrix</i> <i>postvittana</i>)	10 mL/ 100 L	H 7 days	Apply with 14 - 21 day intervals between each application. Do not apply more than three applications per season in each crop. Commence no earlier than post petal fall (or 110 degree days for codling moth or 140 degree days for light brown apple moth as detected in pheromone traps but after petal fall) until late December. Ensure thorough coverage of the target crop – refer 'Application' section in GENERAL INSTRUCTIONS. Do not apply more than 300 mL of Vayego per hectare in a single application. Further treatments should be made with alternate mode-of-action insecticides.



CROP	PEST	RATE	WHP	CRITICAL COMMENTS
Pome fruit,	Weevils e.g.	10 mL/	Pome	Monitor the orchards in early spring and commence
stone fruit	apple weevil	100 L	fruit	applications no earlier than post petal fall when
	(Otiorhynchus		Н	weevils begin to emerge. Apply a second
	cribricollis),		7 days	application 14 days later if required.
	Fuller's rose weevil			Ensure thorough coverage of the target crop – refer
	(Asynonychus		Stone	'Application' section in GENERAL INSTRUCTIONS.
	cervinus),		fruit	Do not apply more than 300 mL of Vayego per
	garden weevil		Н	hectare in a single application. Do not apply
	(Phiyctinus		3 days	more than three applications per season in each
	callosus)			crop.
Stone fruit	Dried fruit beetles	10 mL/	Н	Oriental fruit moth
	(Carpophilus spp.)	100 L	3 days	Commence applications post petal fall, when
	 suppression 			predictive models from local monitoring agencies
	only,			indicate egg hatch of a generational peak.
	Oriental fruit moth			Apply with 14 - 21 day intervals between
	(Laspeyresia			applications.
	<i>molesta</i> syn			
	Grapholita			Dried fruit beetles – suppression only
	molesta)			Monitor stone fruit orchards for beetles as fruit
	Mediterranean	12.5 mL/		approaches maturity and become susceptible to
	fruit fly	100 L		attack.
	(Ceratitis capitata)			Commence application before beetle populations
				reach damaging levels and re-apply treatments if
				necessary at an interval of 10 - 14 days.
				Mediterranean fruit fly
				Commence applications when monitoring indicates
				fruit fly activity and fruit are vulnerable to damage
				(e.g. fruit ripening) Apply with 10 day intervals
				between applications
				Vavego applications should form part of an
				integrated fruit fly management program including
				baiting, trapping and a focus on orchard hygiene.
				5, 11 5 55
				General
				Do not apply more than three applications per
				season in each crop.
				Ensure thorough coverage of the target crop – refer
				'Application' section in GENERAL INSTRUCTIONS.
				Do not apply more than 300 mL of Vayego per
				hectare in a single application.

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

WITHHOLDING PERIODS

Harvest (H)

Sweet corn: DO NOT HARVEST FOR 1 DAY AFTER APPLICATION Mangoes, stone fruit: DO NOT HARVEST FOR 3 DAYS AFTER APPLICATION Pome fruit, table grapes: DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION Almonds and macadamias: DO NOT HARVEST FOR 10 DAYS AFTER APPLICATION Maize: DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION

Grazing (G) Orchards: DO NOT GRAZE TREATED ORCHARD



Vineyard: DO NOT GRAZE TREATED VINEYARD Sweet corn: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 1 DAY AFTER APPLICATION Maize: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 14 DAYS AFTER APPLICATION

EXPORT SLAUGHTER INTERVAL (ESI) - 7 DAYS

Livestock that has been grazed on or fed treated crops should be placed on clean feed for 7 days prior to slaughter.

EXPORT OF TREATED PRODUCE

Growers should note that MRLs or import tolerances may not exist in all markets for edible produce treated with Vayego 200 SC Insecticide. If you are growing edible produce for export, please check with Bayer Crop Science for the latest information on MRLs and import tolerances before using Vayego 200 SC.

GENERAL INSTRUCTIONS

Mixing

Shake the container well before using. Partially fill the spray tank with clean water and add the required volume of product to the water whilst agitating. Where recommended, add non-ionic surfactant, then top up the tank with clean water to the required volume. Vayego 200 SC should be agitated constantly before and during application and applied as soon as possible after mixing.

Application

Dilute spraying - all crops except maize and sweet corn

- 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 100 L of water up to a maximum of 300 mL Vayego per hectare in a single application. 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 - table grapes, macadamias, mangoes, pome fruit, stone fruit

- 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 750 L/ha
- 3. The concentration factor in this example is 2X (i.e. $1500 L \div 750 L = 2$)
- 4. If the dilute label rate is 10 mL/100 L, then the concentrate rate becomes 2 x 10, which is 20 mL/ 100 L of concentrate spray.
- The chosen spray volume, amount of product per 100 L of water, and the sprayer set up and operation may need to be changed as the crop grows.
- Do not use at a concentration factor greater than 2X (e.g. at a rate higher than 25 mL/ 100 L where a dilute spraying rate of 12.5 mL/ 100 L is specified), unless indicated otherwise in the Critical Comments section under Directions for Use.
- Note that the concentration mixing rate is applicable only to Vayego. The adjuvant remains unchanged (i.e. no concentration factor applies).
- For further information on concentrate spraying, users are advised to consult relevant industry guidelines, undertake appropriate competency training and follow industry best practice.



Maize and sweet corn

Thorough coverage of the target area is essential. Apply in a minimum spray volume of 100 L/ha. Adjust water volumes according to the crop growth stage. Use suitable application parameters (nozzles, pressure, boom height, speed, etc.) to ensure thorough and even coverage. Use only nozzles capable of delivering COARSE or VERY COARSE spray quality droplets.

Sweet corn: Where a standard "over the top" boom spray is used, the use of droppers will help improve spray coverage to the target area i.e. silks and cobs.

INSECTICIDE RESISTANCE WARNING

GROUP 28 INSECTICIDE

For insecticide resistance management Vayego 200 SC Insecticide is a Group 28 insecticide.

Some naturally occurring insect biotypes resistant to Vayego 200 SC and other Group 28 insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if Vayego 200 SC or other Group 28 insecticides are used repeatedly. The effectiveness of Vayego 200 SC on resistant individuals could be significantly reduced. Since occurrence of resistant individuals is difficult to detect prior to use, Bayer CropScience Pty Ltd accepts no liability for any losses that may result from the failure of Vayego 200 SC to control resistant insects.

Resistance management strategy

Vayego 200 SC may be subject to specific resistance management strategies. For further information contact your local supplier, Bayer Crop Science representative, local agricultural department agronomist or visit www.croplife.org.au.

COMPATIBILITY

For the latest compatibility recommendations contact the Bayer Crop Science Technical Information Line 1800 804 479 or your local Bayer Crop Science representative.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Very toxic to aquatic life. DO NOT contaminate wetlands or watercourses with the product or used containers.

PROTECTION OF HONEY BEES AND OTHER INSECT POLLINATORS

<u>Table grapes, maize and sweet corn</u>: Following pre-flowering application ensure bees have adequate food sources other than the treated crop or remove bees to prevent foraging in the treated area.

All other crops: DO NOT apply to crops pre-bloom or from the onset of flowering until flowering is complete.

Highly toxic to bees. Tetraniliprole has a systemic action. DO NOT allow spray drift to flowering weeds or flowering crops in the vicinity of the treatment area. Before spraying, notify beekeepers to move hives to a safe location with an untreated source of nectar and pollen, if there is potential for managed hives to be affected by the spray or spray drift. Risk to bees is reduced by spraying in early morning or late evening while bees are not foraging.

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 rinse container 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 for appropriate disposal 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. Do not re-use empty container for any other purpose.

SAFETY DIRECTIONS

Keep out of reach of children. When opening the container, mixing and loading and using the prepared spray, wear cotton overalls (or equivalent clothing) buttoned to the neck and wrists and elbow-length chemical resistant gloves. Wash hands after use. After each day's use, wash gloves and contaminated clothing.



FIRST AID

First aid is not generally required. If in doubt, contact a Poisons Information Centre (phone Australia 13 11 26) or a doctor.

SAFETY DATA SHEET

Additional information is listed in the Safety Data Sheet, which can be obtained from www.crop.bayer.com.au.

EXCLUSION OF LIABILITY

This product must be used strictly as directed, and in accordance with all instructions appearing on the label and in other reference material. So far as it is lawfully able to do so, Bayer CropScience Pty Ltd accepts no liability or responsibility for loss or damage arising from failure to follow such directions and instructions.

Vayego[®] is a Registered Trademark of the Bayer Group.

FOR 24 HOUR SPECIALIST ADVICE IN EMERGENCY ONLY PHONE 1800 033 111

APVMA Approval No.: 86756/133671

GHS STATEMENTS

Classification not required according to GHS criteria.