

CONTENTS

DIRECTIONS FOR USE.....	2
RESTRAINTS	2
SPRAY DRIFT RESTRAINTS	2
DIRECTIONS FOR USE TABLE	3
WITHHOLDING PERIODS (WHP)	5
LIVESTOCK DESTINED FOR EXPORT MARKETS	6
EXPORT SLAUGHTER INTERVAL (ESI) – 7 DAYS	6
EXPORT OF TREATED PRODUCE	6
GENERAL INSTRUCTIONS	6
Mixing	6
Application – macadamias, olives, tropical and sub-tropical fruit (inedible peel, excluding bananas and pineapples)	6
Application – vegetables.....	6
COMPATIBILITY	7
Macadamias	7
Olives, tropical and sub-tropical fruit (inedible peel, excluding bananas and pineapples).....	7
Vegetables.....	7
INSECTICIDE RESISTANCE WARNING	7
PRECAUTION	7
Re-entry period - vegetables	7
INTEGRATED PEST MANAGEMENT	7
All crops	7
Olives, tropical and sub-tropical fruit (inedible peel, excluding bananas and pineapples) and vegetables	7
PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT	7
PROTECTION OF HONEY BEES AND OTHER INSECT POLLINATORS.....	7
PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS.....	7
STORAGE AND DISPOSAL	8
SAFETY DIRECTIONS.....	8
FIRST AID	8
SAFETY DATA SHEET	8
EXCLUSION OF LIABILITY	8
GHS STATEMENT	8



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

Sivanto® Prime 200 SL

INSECTICIDE

ACTIVE CONSTITUENT: 200 g/L FLUPYRADIFURONE

GROUP **4D** INSECTICIDE

For the control or suppression of various pests in macadamias, and various fruit and vegetable crops as specified in the DIRECTIONS FOR USE table

DIRECTIONS FOR USE

RESTRAINTS

- DO NOT** apply by aircraft.
- DO NOT** apply if heavy rain or storms are forecast within 3 days.
- DO NOT** irrigate to the point of field run-off from the treated area for at least 3 days after application.
- DO NOT** apply more than one application of Sivanto Prime to a macadamia block in a twelve-month period.

Fitzroy region (WA):

- DO NOT** apply in the months of April or July to September.
- DO NOT** apply in orchards with bare soil inter-row.

Northern Gulf region (NT):

- DO NOT** apply in November.

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 table/s 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 medium 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.

Buffer zones for boom sprayers

Boom height above the target canopy	Mandatory downwind buffer zones				
	Bystander areas	Natural aquatic areas	Pollinator areas	Vegetation areas	Livestock areas
0.5 m or lower	0 m	0 m	0 m	0 m	0 m
1.0 m or lower	0 m	20 m	0 m	0 m	0 m

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 canopy and dilute water rate	Mandatory downwind buffer zones				
	Bystander areas	Natural aquatic areas	Pollinator areas	Vegetation areas	Livestock areas
2 metres tall and shorter (maximum application rate of 2 L/ha)	0 m	10 m	0 m	0 m	0 m
Taller than 2 metres (not fully-foliated) (maximum application rate of 2 L/ha)	0 m	20 m	0 m	0 m	0 m
Taller than 2 metres (fully-foliated) (maximum application rate of 2 L/ha)	0 m	15 m	0 m	0 m	0 m

DIRECTIONS FOR USE TABLE

CROP	PEST	RATE	WHP	CRITICAL COMMENTS
Macadamias	Macadamia lace bug (<i>Ulonemia concava</i> or <i>Ulonemia decoris</i>)	50 mL/100 L	H 20 days	<p>Monitor crops from early flowering and apply once local thresholds are reached.</p> <p>Apply a maximum of 1 application of Sivanto Prime to a macadamia block in a 12-month period. DO NOT exceed 1 L of Sivanto Prime per hectare per application for macadamia lace bug during flowering.</p> <p>Concentrate spraying is not appropriate for this use. Ensure thorough coverage of all racemes, foliage and macadamia nuts using dilute spraying equipment. Refer to “Application” section in GENERAL INSTRUCTIONS for more information.</p>
	Banana spotting bug (<i>Amblypelta lutescens</i>), fruit spotting bug (<i>Amblypelta nitida</i>)	75 or 100 mL/100 L		<p>Monitor crops and apply once local thresholds are reached from early nut set. Where applicable, use the higher rate during periods of high pest pressure or when longer residual control is desired.</p> <p>Apply a maximum of 1 application of Sivanto Prime to a macadamia block in a 12-month period. DO NOT exceed 2 L of Sivanto Prime per hectare per application for spotting bug.</p> <p>Concentrate spraying is not appropriate for this use. Ensure thorough coverage of foliage and macadamia nuts using dilute spraying equipment. Refer to “Application” section in GENERAL INSTRUCTIONS for more information.</p>



CROP	PEST	RATE	WHP	CRITICAL COMMENTS
Macadamias <i>Continued</i>	Scirtothrips (<i>Scirtothrips dorsalis</i>) (suppression only)	100 mL/100 L	H 20 days	<p>Monitor crops and apply once local thresholds are reached, but only after flowering.</p> <p>Apply a maximum of 1 application of Sivanto Prime to a macadamia block in a 12-month period. DO NOT exceed 2 L of Sivanto Prime per hectare per application for scirtothrips.</p> <p>Concentrate spraying is not appropriate for this use. Ensure thorough coverage of foliage and macadamia nuts using dilute spraying equipment. Refer to “Application” section in GENERAL INSTRUCTIONS for more information.</p>
Avocados, mangoes, papayas and other tropical and sub-tropical fruits, inedible peel (excluding bananas, pineapples)	Banana spotting bug (<i>Amblyopelta lutescens</i>), fruit spotting bug (<i>Amblyopelta nitida</i>), green planthopper, mango planthopper	75 or 100 mL/100 L	H Avocado 1 day Other tropical and sub-tropical fruits, inedible peel (excluding bananas, pineapples) 3 days	<p>Monitor crops and apply once local thresholds are reached. Where applicable, use the higher rate during periods of high pest pressure or when longer residual control is desired. Do not re-apply within 14 days of previous Sivanto spray.</p> <p>The use of an adjuvant is not recommended for tropical fruit crops.</p> <p>Apply a maximum of 2 applications of Sivanto Prime to a block in a 12-month period. DO NOT exceed 1 L of Sivanto Prime per hectare per application. DO NOT apply more than one application during flowering.</p> <p>Calibrate spray equipment to ensure thorough coverage of foliage, flowers and fruit using dilute spraying equipment to the point of run-off. In papaya a minimum water volume of 360 L/ha is recommended.</p> <p>Concentrate spraying is not appropriate for this use. Refer to “Application” section in GENERAL INSTRUCTIONS for more information.</p>
Olives	Olive lace bug, black scale	75 mL/100 L	H 14 days	<p>Olive lace bug Monitor crops for presence of olive lace bug. Apply once local thresholds have been reached.</p> <p>Black scale Monitor crops for presence of black scale and apply at the onset of crawler emergence or when local economic thresholds have been reached.</p> <p>General Apply a maximum of 2 applications of Sivanto Prime (at least 2 months apart) to a block in a 12-month period. DO NOT exceed 1 L of Sivanto Prime per hectare per application.</p>



CROP	PEST	RATE	WHP	CRITICAL COMMENTS
Cucurbits, eggplant, peppers (capsicum and chili), tomatoes (includes protected cropping production systems)	Cotton aphid (<i>Aphis gossypii</i>), green peach aphid (<i>Myzus persicae</i>), greenhouse whitefly (<i>Trialeurodes vaporariorum</i>), silverleaf whitefly (<i>Bemisia tabaci</i> Biotype B)	750 mL/ha OR Dilute spraying 75 mL/100 L	H 1 day	<p>Monitor crops and commence applications once local thresholds are reached. Continue to monitor crops and make subsequent applications as necessary. Do not re-apply within 7 days of a previous Sivanto Prime spray.</p> <p>Do not apply more than 2 applications of Sivanto Prime per hectare per year to the same cropping ground, including areas which have been double cropped.</p> <p>Ensure thorough spray coverage of the target crop.</p> <p>Dilute spraying is recommended for most trellised crops, particularly those grown in protected cropping systems. For dilute spraying apply to the point of run-off, using application volumes of up to 1000 L/ha – refer “Application” section in GENERAL INSTRUCTIONS.</p> <p>Leaf scorch in cucurbits, particularly cucumbers and melons, may sometimes be observed. Use care when applying to young plants.</p> <p>Note: This use is subject to a CropLife resistance management strategy. Refer to www.croplife.org.au for more information.</p>
Green beans, potatoes, sweet potatoes	Green peach aphid (<i>Myzus persicae</i>), silverleaf whitefly (<i>Bemisia tabaci</i> Biotype B)	750 mL/ha	H 7 days G Beans 7 days	<p>Monitor crops and commence applications once local thresholds are reached. Continue to monitor crops and make subsequent applications as necessary. Do not re-apply within 7 days of a previous Sivanto Prime spray.</p> <p>Do not apply more than 2 applications of Sivanto Prime per hectare per year to the same cropping ground, including areas which have been double cropped.</p> <p>Ensure thorough coverage of the target crop – refer “Application” section in GENERAL INSTRUCTIONS.</p> <p>Note: This use is subject to a CropLife resistance management strategy. Refer to www.croplife.org.au for more information.</p>

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

WITHHOLDING PERIODS (WHP)

Harvest (H):

Avocados, cucurbits, eggplant, peppers (capsicum and chili), tomatoes: **DO NOT HARVEST FOR 1 DAY AFTER APPLICATION**

Mangoes, papayas and other tropical and sub-tropical fruits, inedible peel (except avocado, banana, pineapple): **DO NOT HARVEST FOR 3 DAYS AFTER APPLICATION**

Green beans, potatoes, sweet potatoes: **DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION**

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

Macadamias: DO NOT HARVEST FOR 20 DAYS AFTER APPLICATION**Grazing (G):****Tree crops: DO NOT GRAZE TREATED ORCHARDS****Green beans: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 7 DAYS AFTER APPLICATION****LIVESTOCK DESTINED FOR EXPORT MARKETS**

The grazing withholding period only applies to stock slaughtered for the domestic market. Some export markets apply different standards. To meet these standards, ensure that in addition to complying with the grazing withholding period, the Export Slaughter Interval is observed before stock are sold or slaughtered.

EXPORT SLAUGHTER INTERVAL (ESI) – 7 DAYS

LIVESTOCK THAT HAS BEEN GRAZED ON OR FED TREATED CROPS SHOULD BE PLACED ON CLEAN FEED FOR 7 DAY PRIOR TO SLAUGHTER.

EXPORT OF TREATED PRODUCE

Growers should note that suitable MRLs or import tolerances do not exist in all markets for produce treated with Sivanto Prime 200 SL. If you are growing produce for export, please check with Bayer CropScience Pty Ltd or your industry body for the latest information on any potential trade issues and their management before using Sivanto Prime.

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. Top up the tank with clean water to the required volume.

Application – macadamias, olives, tropical and sub-tropical fruit (inedible peel, excluding bananas and pineapples)

- Use a sprayer designed to apply high volumes of water up to the point of run-off and matched to the crop being sprayed.
- Thorough coverage of the target area is essential. 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. 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 is not appropriate for this use.

Application – vegetables

Thorough coverage of the target area is essential. Apply in sufficient water, and using suitable application parameters (nozzles, pressure, boom height, speed, etc.) to ensure thorough and even coverage. Use only nozzles capable of delivering MEDIUM spray quality droplets.

Application using rate per hectare

Thorough coverage of the target area is essential. Adjust water volumes according to the crop growth stage.

Application using rate per 100 L (dilute spraying)

- 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. Spray to the point of run-off, to a maximum of 1000 L/ha for vegetable crops.
- The required dilute spray volume will change and the sprayer set up and operation may also need to be changed, as the crop grows.

COMPATIBILITY**Macadamias**

Sivanto Prime may be mixed with the following crop protection products: Blue Shield® DF Copper Fungicide, Kocide® Blue Xtra Fungicide, Spin Flo® Systemic Fungicide, Cabrio® Fungicide, Agridex® Non-ionic Surfactant, Maxx™ Organosilicone Surfactant. For the latest information on the compatibility of Sivanto Prime with other products, contact your local Bayer Crop Science representative.

Olives, tropical and sub-tropical fruit (inedible peel, excluding bananas and pineapples)

For the latest information on the compatibility of Sivanto Prime with other products, contact your local Bayer Crop Science representative.

Vegetables

Sivanto Prime may be mixed with the following crop protection products: Belt® 480 SC, Blue Shield® DF, Kocide® 350 DF, Dithane® Rainshield® Neo Tec. For the latest information on the compatibility of Sivanto Prime with other products, contact your local Bayer Crop Science representative.

Caution - bees: Do not mix Sivanto Prime with Group 3 (DMI) Fungicides when applied to crops during flowering.

INSECTICIDE RESISTANCE WARNING

GROUP	4D	INSECTICIDE
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For insecticide resistance management Sivanto Prime 200 SL Insecticide is a Group 4D insecticide. Some naturally occurring insect biotypes resistant to Sivanto Prime and other Group 4D insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if Sivanto Prime or other Group 4D insecticides are used repeatedly. The effectiveness of Sivanto Prime 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 Sivanto Prime to control resistant insects.

Sivanto Prime may be subject to specific resistance management strategies. For further information contact your local supplier, Bayer Crop Science representative or local agricultural department agronomist.

PRECAUTION**Re-entry period - vegetables**

Do not allow entry into treated glasshouses or other enclosed areas until the spray has dried or dissipated, and enclosed area has been thoroughly ventilated.

INTEGRATED PEST MANAGEMENT**All crops**

Toxic to beneficial arthropods. Minimise spray drift to reduce harmful effects on beneficial arthropods in non-crop areas. In-crop residues are expected to be safe for predatory bugs within 28 days and for other beneficial arthropods within 49 days after application.

Olives, tropical and sub-tropical fruit (inedible peel, excluding bananas and pineapples) and vegetables

In-crop residues are expected to be safe for rove beetles and ladybird beetles.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

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

PROTECTION OF HONEY BEES AND OTHER INSECT POLLINATORS

Moderately toxic to bees. Flupyradifurone has a systemic action. The use pattern as per the Directions for Use is not expected to result in adverse impact on colony performance or survival, but may have transient effects on honey bee behaviour for a short period after application. In order to protect insect pollinators, refer to the Directions for Use for pest-specific application restrictions.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

Caution - cucurbits: Phytotoxic symptoms have occasionally been observed when Sivanto Prime is applied to cucurbit crops in field and protected cropping environments. This may be exacerbated when applied in tank mixtures or in areas of crop subject to spray overlap.



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 containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace caps 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. DO NOT re-use empty containers for any other purpose.

SAFETY DIRECTIONS

Harmful if inhaled. Will irritate the eyes. Do not inhale spray mist. Avoid contact with eyes. If product in eyes, wash it out immediately with water. When opening the container and preparing spray wear cotton overalls (or equivalent clothing) buttoned to the neck and wrists, elbow-length chemical resistant gloves and goggles or a face shield. When 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, goggles or face shield and contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26.

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.

Sivanto®, Agridex®, Belt® and Blue Shield® are Registered Trademarks of the Bayer Group.

APVMA Approval No.: 84727/133790

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

GHS STATEMENT

•Harmful if inhaled. •Causes serious eye irritation. •May cause an allergic skin reaction. •May cause damage to organs through prolonged or repeated exposure.
•IF ON SKIN: Wash with plenty of soap and water. •If skin irritation or rash occurs: Get medical advice/attention.
•IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER if you feel unwell. •IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.