

CONTENTS

DIRECTIONS FOR USE
RESTRAINTS
SPRAY DRIFT RESTRAINTS
Boom sprayers
Vertical sprayers
DIRECTIONS FOR USE TABLE
WITHHOLDING PERIODS (WHP)
EXPORT OF TREATED PRODUCE
GENERAL INSTRUCTIONS
Mixing9
Application9
Sprayer clean up
Plant back interval requirements for rotational crops
FUNGICIDE RESISTANCE WARNING
COMPATIBILITY
PRECAUTION
Re-entry period
PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT
Integrated pest management
PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS
STORAGE AND DISPOSAL
SAFETY DIRECTIONS
FIRST AID
SAFETY DATA SHEET
EXCLUSION OF LIABILITY
GHS STATEMENTS

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

Luna[®] Sensation

FUNGICIDE

ACTIVE CONSTITUENTS: 250 g/L FLUOPYRAM 250 g/L TRIFLOXYSTROBIN

GROUP	7	11	FUNGICIDE
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For control of various diseases in almonds, various fruit crops, lettuce, green beans and pyrethrum 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 water runoff from the treatment area for at least 3 days after application.

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 by standers 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.

	Boom height		Mandatory	/downwindbu	uffer zones	
Application rate	above the target canopy	Bystander areas	Natural aquatic areas	Pollinator areas	Vegetation areas	Livestock areas
Up to 800	0.5 m or lower	0 m	35 m	0 m	0 m	0 m
mL/ha	1.0 m or lower	0 m	95 m	0 m	0 m	0 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

	Mandatory downwind buffer zones					
Type of target canopy and dilute water rate	Bystander areas	Natural aquatic areas	Pollinator areas	Vegetation areas	Livestock areas	
2 metres tall and shorter, maximum dilute water rate of 1000 L/ha.	0 m	10 m	0 m	0 m	0 m	
Taller than 2 metres (not fully-foliated), maximum dilute water rate of 1500 L/ha.	0 m	30 m	0 m	0 m	0 m	
Taller than 2 metres (fully-foliated), maximum dilute water rate of 1500 L/ha.	0 m	20 m	0 m	0 m	0 m	
Taller than 2 metres (not fully-foliated), maximum dilute water rate of 2000 L/ha.	0 m	40 m	0 m	0 m	0 m	
Taller than 2 metres (fully-foliated), maximum dilute water rate of 2000 L/ha.	0 m	30 m	0 m	0 m	0 m	

DIRECTIONS FOR USE TABLE

CROP	DISEASE	RATE	WHP	CRITICAL COMMENTS
Almonds	Blossom blight, stone fruit rust	<u>Dilute</u> <u>spraying</u> 30 mL/100 L	14 days	Apply in a fungicide spray program according to target disease, observing the restrictions on total number of applications detailed below.
		<u>Concentrate</u> <u>spraying</u> Refer to the Application section		Blossom blight Apply as part of a blossom blight spray program. The critical application timings for blossom blight control are early (1-10%) blossom, full bloom and petal fall/shuck fall.
	Shot hole Suppression only: Hull rot	<u>Dilute</u> <u>spraying</u> 40 mL/100 L <u>Concentrate</u> <u>spraying</u> Refer to the Application section (not appropriate for hull rot control)		Stone fruit rust Apply at or prior to the first signs of disease. Repeat applications may be required later in the crop cycle if weather conditions favour disease development or new foliage growth occurs. Shot hole Apply as part of a protectant spray program at intervals of 10 to 14 days starting at early pink bud. Repeat applications may be required later in the crop cycle if weather conditions favour disease development. Use the short spray intervals when disease pressure is high or plants are growing rapidly or weather conditions favour disease development.
				Hull rot Apply at early hull split. Repeat at the first sign of infection. Apply to the point of run-off to give thorough coverage of fruit. A reduction in the percentage of nuts infected and a consequent reduction in nuts retained on the tree after harvest can be expected following applications as directed.
				General Apply a maximum of 3 applications of Luna Sensation per season. Apply a maximum of 2 litres of Luna Sensation per hectare per season.
				Apply thoroughly to ensure complete coverage. Apply by dilute or concentrate spraying equipment (except for hull rot applications where concentrate application is not appropriate). Apply the same total amount of product to the target crop whether applying this product by dilute or concentrate spraying methods. For concentrate spraying, do not use at rates greater than two times the dilute spraying rate (i.e. at a concentration factor greater than 2X) – refer " Application " section in GENERAL INSTRUCTIONS.
				Tank mixes with foliar fertilizers may result in minor leaf tipping.
				Resistance Management This use is subject to a CropLife Australia fungicide resistance management strategy which limits the total number and consecutive number of applications of Luna Sensation and other Group 7 and 11 fungicides.

CROP	DISEASE	RATE	WHP	CRITICAL COMMENTS
Apples	Black spot (apple scab), powdery mildew	<u>Dilute</u> <u>spraying</u> 30 mL/100 L	14 days	Apply in a fungicide spray program according to target disease, observing the restrictions on total number of applications detailed below.
	Suppression only: Alternaria leaf blotch	Concentrate spraying Refer to the Application		Black spot Apply as part of a black spot (apple scab and pear scab) spray program at 7 to 10 day
Pears	Black spot (pear scab)	section		intervals, commencing applications at green tip or at spur burst following a recommended green tip fungicide spray.
				Powdery mildew Apply as part of a powdery mildew spray program at 14 day intervals commencing applications at early pink stage.
				Alternaria leaf blotch Apply as part of an alternaria spray program at 14 day intervals commencing following blossom and extending through early fruit development.
				General Apply a maximum of 3 applications of Luna Sensation per season. Apply a maximum of 2 litres of Luna Sensation per hectare per season.
				Apply thoroughly to ensure complete coverage. 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. For concentrate spraying, do not use at rates greater than three times the dilute spraying rate (i.e. at a concentration factor greater than 3X) – refer " Application " section in GENERAL INSTRUCTIONS.
				Resistance Management This use is subject to a CropLife Australia fungicide resistance management strategy which limits the total number and consecutive number of applications of Luna Sensation and other Group 7 and 11 fungicides.



CROP	DISEASE	RATE	WHP	CRITICAL COMMENTS
Stone fruit	Blossom blight, shot hole	<u>Dilute</u> <u>spraving</u> 40 mL/100 L	1 day	Apply in a fungicide spray program according to target disease, observing the restrictions on total number of applications detailed below.
	Brown rot	<u>Concentrate</u> <u>spraying</u> Refer to the Application section <u>Dilute</u>		Blossom blight Apply as part of a blossom blight spray program. The critical application timings for blossom blight control are early (1-10%) blossom, full bloom and petal fall/shuck fall.
		spraying 30 mL/100 L <u>Concentrate</u> spraying Refer to the Application section		Shot hole Apply as part of a shot hole spray program at intervals of 10 to 14 days starting at early pink bud. Repeat applications may be required later in the crop cycle if weather conditions favour disease development.
				Brown rot Apply as part of a brown rot spray program. The critical period for brown rot control begins at fruit ripening and extends through to harvest. A spray interval of 7-10 days should be utilised.
				General Apply a maximum of 2 applications of Luna Sensation per season. Apply a maximum of 2 litres of Luna Sensation per hectare per season.
				Apply thoroughly to ensure complete coverage. 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. For concentrate spraying, do not use at rates greater than three times the dilute spraying rate (i.e. at a concentration factor greater than 3X) – refer " Application " section in GENERAL INSTRUCTIONS.
				Resistance Management This use is subject to a CropLife Australia fungicide resistance management strategy which limits the total number and consecutive number of applications of Luna Sensation and other Group 7 and 11 fungicides.



CROP	DISEASE	RATE	WHP	CRITICAL COMMENTS
Strawberries, cane berries, including raspberries, blackberries, dew berries (e.g. boysenberries,	Grey mould / botrytis (<i>Botrytis cinerea</i>)	800 mL/ha	1 day	Apply Luna Sensation prior to disease onset as part of a preventative program. Apply a follow-up application 7 to 14 days after this initial application. Ensure thorough coverage of all foliage. Luna Sensation should be applied as part of an integrated disease control program that
loganberries, youngberries) (includes protected cropping production systems)				incorporates other measures such as crop rotation, planting resistant crop varieties and moisture management to reduce humidity and crop wetness in order to limit disease pressure. General
Strawberries (includes protected cropping	Powdery mildew (Sphaerotheca macularis)			Apply a maximum of 2 applications of Luna Sensation per year in the same paddock.
production systems)				Resistance Management This use is subject to a CropLife Australia fungicide resistance management strategy which limits the total number and consecutive number of applications of Luna Sensation and other Group 7 and 11 fungicides.
Avocados, mangoes and other tropical and sub-	Anthracnose (<i>Colletotrichum</i> spp.), stem end rot	50 mL/100 L	3 days	Begin applications as soon as crop development has reached susceptible stages for disease infections to occur.
tropical fruits, inedible peel (excluding bananas, papaya, passionfruit, pineapples)				Apply Luna Sensation in a preventative fungicide program, incorporating fungicides from different mode of action groups. Intervals between fungicide applications generally should be 14 to 21 days, but should be modified for locality, disease conditions and weather conditions.
Litchis	Litchi pepper spot (Colletotrichum gloeosporioides)			Apply a maximum of 3 applications of Luna Sensation (depending on the water volume required to spray to run-off) that
Рарауа	Black spot (<i>Asperisporium</i> <i>caricae</i>), brown spot	600 mL/ha		would not exceed a total of 2 litres of Luna Sensation per hectare in a 12-month period.
	(Corynespora cassiicola)			Apply as a high volume spray at a water volume appropriate to the crop stage to
Passionfruit	Septoria spot (Septoria passiflorae),	60 mL/100 L	1 day	ensure good coverage of all foliage, flowers and fruit.
	brown spot (Alternaria passiflorae)			Resistance Management Observe industry resistance management guidelines relevant to this use. These
Persimmons, Japanese	Anthracnose (<i>Colletotrichum</i> spp.)	50 mL/100 L	14 days	guidelines may recommend limits to the number of sprays, constraints regarding consecutive sprays, minimum spray intervals and no-spray periods for all fungicide activity groups.



CROP	DISEASE	RATE	WHP	CRITICAL COMMENTS
CROP Lettuce (including leafy lettuce, loose leaf types, greenhouse lettuce)	DISEASE Lettuce drop (Sclerotinia rot, <i>Sclerotiorum</i> and <i>Sclerotinia</i> <i>minor</i>)	RATE 800 mL/ha	WHP 7 days	CRITICAL COMMENTSApply Luna Sensation preventively, prior to the onset of disease.Best results can be obtained where Luna Sensation is applied after seedling emergence in the case of direct seeded lettuce, or immediately following planting in the case of transplants.A repeat application should be applied 7 to 14 days after this initial application.Luna Sensation should be applied as part of an integrated disease control program that incorporates other measures such as crop rotation, planting resistant crop varieties and moisture management to reduce humidity and crop wetness in order to limit disease pressure.General DO NOT apply more than 2 applications of Luna Sensation per year in the same paddock.Resistance Management This use is subject to a CropLife Australia fungicide resistance management strategy which limits the total number and consecutive
Green beans (<i>Phaseolus</i> spp.)	Powdery mildew (Podosphaera xanthii), white mould (Sclerotinia sclerotiorum)	800 mL/ha	H 21 days G 21 days	number of applications of Luna Sensation and other Group 7 and 11 fungicides. Powdery mildew Apply Luna Sensation prior to disease onset as part of a preventative program. Ensure thorough coverage of all foliage. White mould Apply Luna Sensation prior to disease onset as part of a preventative program. Generally best results can be obtained where Luna Sensation is applied at 10-30 % open flowers, but is not limited to these timings. Apply a follow-up application 7 to 14 days after this initial application. Ensure thorough coverage of all foliage. Powdery mildew and white mould Luna Sensation should be applied as part of an integrated disease control program that incorporates other measures such as crop rotation, planting resistant crop varieties and moisture management to reduce humidity and crop wetness in order to limit disease pressure. General Apply a maximum of 2 applications of Luna Sensation per year in the same paddock.



CROP	DISEASE	RATE	WHP	CRITICAL COMMENTS
			VVNF	
Pyrethrum	Ray blight	800 mL/ha	-	Apply Luna Sensation prior to disease onset
	(Stagonosporopsis			as part of a preventative program. Generally
	tanaceti),			best results can be obtained where Luna
	sclerotinia flower			Sensation is applied at 10-30 % open flowers,
	blight			but application is not limited to these timings.
	(Sclerotinia			Apply a follow-up application 7 to 14 days
	sclerotiorum)			after this initial application.
				Luna Sensation should be applied as part of
				an integrated disease control program that
				incorporates other measures such as crop
				rotation, planting resistant crop varieties and
				moisture management to reduce humidity and
				crop wetness in order to limit disease
				pressure.
				General
				Apply a maximum of 2 applications of
				Luna Sensation per year in the same
				paddock.

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):

Cane berries, passionfruit, stone fruit, strawberries: DO NOT HARVEST FOR 1 DAY AFTER APPLICATION

Tropical and sub-tropical fruit, inedible peel (excluding bananas, passionfruit, pineapples): DO NOT HARVEST FOR 3 DAYS AFTER APPLICATION

Lettuce: DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION

Almonds, apples, pears, persimmons (Japanese): DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION

Green beans: DO NOT HARVEST FOR 21 DAYS AFTER APPLICATION

Grazing (G): Orchards: DO NOT GRAZE LIVESTOCK IN TREATED ORCHARDS Green beans: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 21 DAYS AFTER APPLICATION

EXPORT OF TREATED PRODUCE

Growers should note that suitable MRLs or import tolerances may not exist in all markets for produce treated with Luna Sensation. In some situations export requirements may be met by limiting application number and/or imposing a longer withholding period than specified above. If you are growing produce for export, please check with Bayer CropScience Pty Ltd for the latest information on MRLs and import tolerances and for advice on any potential trade issues and their management.

GENERAL INSTRUCTIONS

Mixing

Shake well before use. Half fill the spray tank with clean water (do not use hard/saline water or water with suspended solids). Pour in the required quantity of Luna Sensation with agitators running, then top up with water. Use spray mixture immediately after preparation, do not allow it to stand.

Application

Application should be by ground spray equipment only. Thorough coverage of the target area is essential.

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 water to cover the crop to the point of run-off. Avoid excessive run-off.
- The required spray volume may be determined by applying different test volumes, using different settings on the sprayer, or from industry guidelines or expert advice.



- Add the amount of product specified in the Direction 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.

<u>Concentrate spraying</u> (almonds (excluding hull rot applications), apples, pears and stone fruit only)

- 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 30 mL/100 L, then the concentrate rate becomes 2 x 30, that is, 60 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.
- Maximum concentration factor;
 Almonds (except for hull rot applications where concentrate spraying is not appropriate): Do not use at a concentration factor greater than 2X (e.g. at a rate higher than 60 mL/100 L where a dilute spraying rate of 30 mL/100 L is specified).

Apples, pears, stone fruit: Do not use at a concentration factor greater than 3X (e.g. at a rate higher than 90 mL/100 L where a dilute spraying rate of 30 mL/100 L is specified).

• For further information on concentrate spraying users are advised to consult relevant industry guidelines, undertake appropriate competency training and follow industry best practice.

Sprayer clean up

If clean up of spray equipment is required, rinse equipment twice with clean water after use.

Plant back interval requirements for rotational crops

The following plant back intervals are required for rotational crops:

Crop group	Plant back interval
Vegetables	None
Cereals, pulses, oil seed crops and pasture	7 months

FUNGICIDE RESISTANCE WARNING

GROUP 7 11 FUNGICIDE

Luna Sensation Fungicide is a combination of a succinate dehydrogenase inhibitor (SDHI) and a quinone outside inhibitor (QoI) fungicide. For fungicide resistance management Luna Sensation is both a Group 7 and a Group 11 fungicide. Some naturally occurring individual fungi resistant to Luna Sensation and other Group 7 and Group 11 fungicides may exist through normal genetic variability in any fungal population. The resistant individuals can eventually dominate the fungal population if these fungicides are used repeatedly. These resistant fungi will not be controlled by Luna Sensation and other Group 7 and Group 11 fungicides, thus resulting in a reduction in efficacy and possible yield loss.

Since the occurrence of resistant fungi is difficult to detect prior to use, Bayer CropScience Pty Ltd accepts no liability for any losses that may result from the failure of Luna Sensation to control resistant fungi.

Luna Sensation may be subject to specific resistance management strategies. For further information contact your local supplier, Bayer Crop Science representative, local agricultural department agronomist or refer to the CropLife Australia website.

COMPATIBILITY

For information on the compatibility of Luna Sensation with other products, contact your local retailer or Bayer Crop Science representative.



PRECAUTION

Re-entry period

Do not enter treated areas until spray has dried. If prior entry is necessary wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each day's use.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

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

Integrated pest management

Toxic to predatory bugs (*Orius* spp.). In-crop residues are expected to be safe for predatory bugs within 21 days after the last application. Minimise spray drift to reduce harmful effects on beneficial arthropods in non-crop areas.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

A spray drift minimisation strategy should be employed at all times. Spray drift may occur under adverse meteorological conditions or from certain spraying equipment. DO NOT allow spray to drift onto sensitive areas including, but not limited to, susceptible plants/crops, cropping land, pasture, natural streams, rivers, wetlands, waterways or human dwellings.

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 container to an approved waste management facility. If an approved facility is not available, bury the empty container 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

Repeated exposure may cause allergic disorders. When opening the container, preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and elbow-length chemical resistant gloves. Wash hands after use. After each day's use, wash gloves and contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre (telephone 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.

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

APVMA Approval No.: 65560/135236

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

GHS STATEMENTS

•May cause an allergic skin reaction. •May cause harm to breast-fed children.

•Do not breathe mist/spray. •Avoid contact during pregnancy and while nursing. •Do not eat, drink or smoke when using this product. •IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/ attention. •IF exposed or concerned: Get medical advice/ attention.