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

# Luna<sup>®</sup> Sensation

**FUNGICIDE**

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

<b>GROUP</b>	<b>7</b>	<b>11</b>	<b>FUNGICIDE</b>
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**For control of various diseases in almonds and various fruit crops as specified in the DIRECTIONS FOR USE table**

## **DIRECTIONS FOR USE**

### **RESTRAINTS**

**DO NOT** apply with aircraft.

### **SPRAY DRIFT RESTRAINTS**

Except when applying with orchard airblast equipment, **DO NOT** apply with spray droplets smaller than a **MEDIUM** spray droplet size category according to nozzle manufacturer specifications that refer to the ASABE S572 Standard or the BCPC Guideline.

**DO NOT** apply in orchards when the wind speed is less than 3 or more than 20 kilometres per hour as measured 15 metres outside of the orchard on the upwind side.

**DO NOT** direct the spray above trees during airblast applications. **TURN OFF** outward pointing nozzles at row ends and outer rows during airblast applications.

**DO NOT** apply during surface temperature inversion conditions at the application site.

Users of this product **MUST make an accurate written record** of the details of each spray application within 24 hours following application and **KEEP** this record for a minimum of 2 years. The spray application details that must be recorded are: **1.**date with start and finish times of application; **2.**location address and paddock/s sprayed; **3.**full name of this product; **4.**amount of product used per hectare and number of hectares applied to; **5.**crop/situation and weed/pest; **6.**wind speed and direction during application; **7.**air temperature and relative humidity during application; **8.**nozzle brand, type, spray angle, nozzle capacity and spray system pressure measured during application; **9.**name and address of person applying this product. (Additional record details may be required by the State or Territory where this product is used.)

### **MANDATORY NO-SPRAY ZONES**

**DO NOT** apply if there are aquatic or wetland areas including aquacultural ponds within 20 metres downwind from the application area.



**DIRECTIONS FOR USE TABLE**

CROP	DISEASE	RATE	WHP	CRITICAL COMMENTS
Almonds	Blossom blight, stone fruit rust	<u>Dilute spraying</u> 30 mL/100 L  <u>Concentrate spraying</u> Refer to the <b>Application</b> section	14 days	<p>Apply in a fungicide spray program according to target disease, observing the restrictions on total number of applications detailed below.</p> <p><b>Blossom blight</b> 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.</p> <p><b>Stone fruit rust</b> 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.</p> <p><b>Shot hole</b> 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.</p> <p><b>Hull rot</b> 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.</p> <p><b>General</b> <b>Apply a maximum of 3 applications of Luna Sensation per season.</b> <b>Apply a maximum of 2 litres of Luna Sensation per hectare per season.</b></p> <p>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 “<b>Application</b>” section in GENERAL INSTRUCTIONS.</p> <p>Tank mixes with foliar fertilizers may result in minor leaf tipping.</p> <p><b>Resistance Management</b> 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.</p>
	Shot hole  Suppression only: Hull rot	<u>Dilute spraying</u> 40 mL/100 L  <u>Concentrate spraying</u> Refer to the <b>Application</b> section (not appropriate for hull rot control)		



CROP	DISEASE	RATE	WHP	CRITICAL COMMENTS
Apples	Black spot (apple scab), powdery mildew	<u>Dilute 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	<u>Concentrate spraying</u> Refer to the <b>Application</b> section		<p><b>Black spot</b> Apply as part of a black spot (apple scab and pear scab) spray program at 7 to 10 day intervals, commencing applications at green tip or at spur burst following a recommended green tip fungicide spray.</p> <p><b>Powdery mildew</b> Apply as part of a powdery mildew spray program at 14 day intervals commencing applications at early pink stage.</p> <p><b>Alternaria leaf blotch</b> Apply as part of an alternaria spray program at 14 day intervals commencing following blossom and extending through early fruit development.</p> <p><b>General</b> <b>Apply a maximum of 3 applications of Luna Sensation per season.</b> <b>Apply a maximum of 2 litres of Luna Sensation per hectare per season.</b></p> <p>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 “<b>Application</b>” section in GENERAL INSTRUCTIONS.</p> <p><b>Resistance Management</b> 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.</p>
Pears	Black spot (pear scab)			
Stone fruit	Blossom blight, shot hole	<u>Dilute spraying</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.
		<u>Concentrate spraying</u> Refer to the <b>Application</b> section		<p><b>Blossom blight</b> 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.</p> <p><b>Shot hole</b> 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.</p> <p><b>Brown rot</b> Apply as part of a brown rot spray program. The critical period for brown rot control begins at fruit</p>
	Brown rot	<u>Dilute spraying</u> 30 mL/100 L		
		<u>Concentrate spraying</u> Refer to the <b>Application</b> section		



## Luna Sensation

CROP	DISEASE	RATE	WHP	CRITICAL COMMENTS
Stone fruit <i>Continued</i>				ripening and extends through to harvest. A spray interval of 7-10 days should be utilised.  <b>General</b> <b>Apply a maximum of 2 applications of Luna Sensation per season.</b> <b>Apply a maximum of 2 litres of Luna Sensation per hectare per season.</b>  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 “ <b>Application</b> ” section in GENERAL INSTRUCTIONS.  <b>Resistance Management</b> 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.
Avocadoes, mangoes and other tropical and sub-tropical fruits, inedible peel (excluding bananas, papaya, passionfruit, pineapples)	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.  Apply Luna Sensation in a preventative fungicide program, incorporating fungicides from different mode of action groups. Intervals between fungicide applications generally should be 14-21 days, but should be modified for locality, disease conditions and weather conditions.
Litchis	Litchi pepper spot ( <i>Colletotrichum gloeosporioides</i> )			<b>Apply a maximum of 3 applications of Luna Sensation (depending on the water volume required to spray to run-off) that would not exceed a total of 2 litres of Luna Sensation per hectare in a 12-month period.</b>
Papaya	Black spot ( <i>Asperisporium caricae</i> ), brown spot ( <i>Corynespora cassicola</i> )	600 mL/ha		Apply as a high volume spray at a water volume appropriate to the crop stage to ensure good coverage of all foliage, flowers and fruit.
Passionfruit	Septoria spot ( <i>Septoria passiflorae</i> ), brown spot ( <i>Alternaria passiflorae</i> )	60 mL/100 L	1 day	<b>Resistance Management</b> Observe industry resistance management guidelines relevant to this use. These 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.

**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):

Stone fruit, passionfruit: **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**



**Almonds, apples and pears: DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION**

**Grazing (G): DO NOT GRAZE LIVESTOCK IN TREATED ORCHARDS**

### **EXPORT SLAUGHTER INTERVAL (ESI) – 30 DAYS**

**Livestock that has been grazed on or fed treated crops should be placed on clean feed for 30 days prior to slaughter.**

### **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. 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 water. 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.

### **Concentrate spraying (not appropriate for hull rot applications in almonds and for applications in tropical and sub-tropical fruit crops)**

- 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.  $1500 \text{ L} \div 750 \text{ L} = 2$ )
  4. If the dilute label rate is 30 mL/100 L, then the concentrate rate becomes  $2 \times 30$ , 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.

## Compatibility

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

## FUNGICIDE RESISTANCE WARNING

<b>GROUP</b>	<b>7</b>	<b>11</b>	<b>FUNGICIDE</b>
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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.

## PRECAUTION

### Re-entry period

Do not allow entry into treated areas until the spray has dried, 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.

## 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

Luna Sensation may have an adverse effect on predatory bugs (*Orius* spp.) if used where IPM is practised. Safety to ladybird beetles, syrphid flies and lacewings has not been evaluated.

## 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](http://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.: 65560/123155

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 mists. •Avoid contact during pregnancy / 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.