

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

# SINDON 500

SC FUNGICIDE

ACTIVE CONSTITUENT: 500 g/L IPRADIONE

**GROUP 2 FUNGICIDE**

For the control of certain fungal diseases in various crops and situations as specified in the Directions for Use table.

**IMPORTANT:  
READ THIS BOOKLET BEFORE  
USING THIS PRODUCT**

APVMA APPROVAL  
NO: 66783/54401



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# DIRECTIONS FOR USE

## Tree Crops/Vines:

### RATE

In the following table, all rates are given for dilute spraying. For concentrate spraying, refer to the **Special Instructions for Tree Crops/Vines** section

CROP	DISEASE	STATE	RATE	WHP
Almonds	Blossom blight, brown rot ( <i>Monilinia</i> spp., <i>Sclerotinia</i> spp.)	All States	50 mL/ 100L water	Nil
Boysenberries	Grey mould ( <i>Botrytis cinerea</i> )		100 mL/ 100 L water	1 day
Grapes				7 days
Kiwifruit	Botrytis blight ( <i>Botrytis</i> spp.)	NSW, Vic, WA only		
Macadamias	Botrytis blight ( <i>Botrytis</i> spp.)	All States	50 mL / 100L water	Nil
Mandarins (non-bearing)	Alternaria leaf spot (brown spot) ( <i>Alternaria alternata</i> )	Qld, WA, NT only	100 mL / 100L water	
Passionfruit	Alternaria spot (brown spot) ( <i>Alternaria</i> spp., <i>Alternaria passiflorae</i> )	Qld, NSW, WA, NT only	100 mL/ 100 L water	7 days

## CRITICAL COMMENTS

For all uses in this table: 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.** Refer to the **Special Instructions for Tree Crops/Vines** section

Apply first at full bloom and, if conditions are favourable for disease development, up to two subsequent applications can be made; at petal fall and up to four weeks after petal fall.

Spray at 10% blossom and full bloom. For fruit protection, apply at 2 to 3 weeks pre-harvest.

Good crop hygiene will aid in the control of disease.

**This use is subject to an CropLife fungicide resistance management strategy:**

The number of consecutive applications and the total number of applications of Group 2 fungicides permitted is limited. Refer to CropLife Australia Resistance Management Guidelines. See under "General Instructions – Resistance Management" for details of where these guidelines can be obtained.

Apply the spray to vines every 10 to 14 days ensuring that all fruit is thoroughly wet. Apply 3 applications at 10 to 14 day intervals from 10% bloom to petal fall for protection of flowers and young fruit. Apply a further 2 applications of Sindon 500 SC to control late season Botrytis.

Apply as a thorough cover spray to flower racemes when they open. A follow up spray may be needed one week later if wet conditions persist during flowering. Remove nuts under trees prior to spraying.

Apply to non-bearing trees of Murcott variety monthly from first flush in spring until flushing ceases in the autumn. Reduce intervals to fortnightly during periods of wet weather.

**This use is subject to an CropLife fungicide resistance management strategy:**

1. Maintain a protective cover with protectant fungicide such as mancozeb.
2. Limit the use of Sindon 500 SC to strategic periods, i.e. before, during and after extended wet periods.
3. Always tank mix Sindon 500 SC with a protectant such as mancozeb.
4. DO NOT apply more than four Sindon 500 SC (or other Group 2 fungicide) sprays in a season.

## Tree Crops/Vines: (continued)

### RATE

In the following table, all rates are given for dilute spraying. For concentrate spraying, refer to the **Special Instructions for Tree Crops/Vines** section

CROP	DISEASE	STATE	RATE	WHP
Raspberries	Grey mould ( <i>Botrytis cinerea</i> )	All States	100 mL/ 100 L water	1 day
<b>Stone Fruit:</b> Apricots, cherries, nectarines, peaches, plums	<b>Orchard Spraying</b> Blossom blight ( <i>Monilinia fructicola</i> , <i>Monilinia laxa</i> ) Brown rot ( <i>Monilinia fructicola</i> , <i>Monilinia laxa</i> )	Qld, NSW, Vic, Tas, SA, WA only	50 to 75 mL/ 100 L water	Nil
Youngberries	Grey mould ( <i>Botrytis cinerea</i> )	All States	100 mL/ 100 L water	1 day

### Berries:

(See Tree Crops/Vines for boysenberries, raspberries and youngberries).

CROP	DISEASE	STATE	RATE	WHP
Strawberries	Grey mould ( <i>Botrytis cinerea</i> )	All States	1.0 L/ha where spray volume is less than 1000L/ha <b>OR</b> 100 mL/100 L water where spray volume equals or exceeds 1000 L/ha	1 day

### CRITICAL COMMENTS

For all uses in this table: 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.** Refer to the **Special Instructions for Tree Crops/Vines** section

Spray at 10% blossom and full bloom. For fruit protection, apply at 2 to 3 weeks pre-harvest.

Critical timings for control of blossom blight, are 10% blossom, full bloom and petal/shuck fall and for control of subsequent brown rot in fruit, spray at 3 weeks and 1 week pre-harvest. Use the higher rate under severe conditions of challenge, or for single applications of Sindon 500 SC in the spray program.

**This use is subject to an CropLife fungicide resistance management strategy:**

The number of consecutive applications and the total number of applications of Group 2 fungicides permitted is limited. Refer to CropLife Australia Resistance Management Guidelines. See under "General Instructions – Resistance Management " for details of where these guidelines can be obtained.

Spray at 10% blossom and full bloom. For fruit protection, apply at 2 to 3 weeks pre-harvest.

### CRITICAL COMMENTS

**This use is subject to an CropLife fungicide resistance management strategy:**

1. Apply a program of protectant fungicides during flowering. If conditions favour disease development during this period use Sindon 500 SC.
2. DO NOT apply more than two successive sprays of Sindon 500 SC (or other Group 2 Fungicide).

## Fruit – Post-Harvest Dipping:

CROP	DISEASE	STATE	RATE	WHP
<b>Pome fruit:</b> Apples, Pears	<b>Post Harvest Dipping</b>  Storage Rots ( <i>Penicillium</i> ) ( <i>Botrytis</i> spp.) ( <i>Gleosporium</i> spp.)	All States	100mL / 100L water	Nil
<b>Stone Fruit:</b> Apricots, cherries, nectarines, peaches, plums	<b>Post harvest dipping</b>  Brown rot ( <i>Monilinia fructicola</i> , <i>Monilinia laxa</i> ), *Transit rot ( <i>Rhizopus</i> spp.)	NSW, Qld, Vic, Tas, SA. WA only		

## Vegetables:

CROP	DISEASE	STATE	RATE	WHP
Celery	Sclerotinia rot (pink rot) ( <i>Sclerotinia</i> , <i>sclerotiorum</i> )	All States	1.0 L/ha where spray volume is less than 1000 L/ha <b>OR</b> 100 mL/ 100L water where spray volume equals or exceeds 1000 L/ha	1 day

## CRITICAL COMMENTS

To minimise the development of post harvest rots handle fruit carefully to avoid fruit injury and dip promptly after harvest. Remove any infected fruit from the packing house immediately and destroy. When dipping, allow sufficient time to thoroughly wet the fruit. Top up the dip with 10mL Sindon 500 in 100L of water. When using Sindon 500 as a post-harvest dip, DO NOT use a Group 2 fungicide as a final pre-harvest spray. Rotation between different modes of action in post-harvest dips is advised.

**This use is subject to an CropLife fungicide resistance management strategy:** See under “General Instructions – Resistance Management “for details of where these guidelines can be obtained.

To minimise the development of post harvest rots handle fruit carefully to avoid fruit injury and dip promptly after harvest. Remove any infected fruit from the packing house immediately and destroy.

When dipping allow sufficient time to thoroughly wet the fruit. Top up dip with 200mL Sindon 500 SC in 100L water. A non-ionic wetting agent should be used. \*Transit rot is suppressed at this rate.

When using Sindon 500 as a post-harvest dip, DO NOT use a Group 2 fungicide as the final pre-harvest field spray.

Rotation between different modes of action in post-harvest dips is advised.

**This use is subject to an CropLife fungicide resistance management strategy:** See under “General Instructions – Resistance Management “for details of where these guidelines can be obtained.

## CRITICAL COMMENTS

Commence spraying 1 to 2 weeks post-transplanting and then every 2 to 3 weeks. Use only five sprays.

## Vegetables: (continued)

CROP	DISEASE	STATE	RATE	WHP
Lettuces	Sclerotinia rot (drop) <i>(Sclerotinia sclerotiorum, Sclerotinia minor)</i>	All States	1.0 L/ha where spray volume is less than 1000 L/ha <b>OR</b> 100 mL/ 100L water where spray volume equals or exceeds 1000 L/ha	7 days
	Grey mould <i>(Botrytis spp.)</i>	Tas, WA only		
Potatoes	Sclerotinia rot <i>(Sclerotinia sclerotiorum)</i>	All States	500mL to 1.0 L/ha where spray volume is less than 1000L/ha <b>OR</b> 50 to 100 mL/ 100L water where spray volume equals or exceeds 1000 L/ha	Nil
	Target spot, (early blight) <i>(Alternaria solani)</i>			
	Hypocotyl rot (black scurf) <i>(Rhizoctonia solani)</i>			



## CRITICAL COMMENTS

Spray should be directed to the stems at ground level and to the underside of lower leaves.

**This use is subject to an CropLife fungicide resistance management strategy:**

1. Apply Sindon 500 SC as a seedling drench soon after emergence.
2. Apply a protectant fungicide as a high volume foliar spray before planting out, then Sindon 500 SC immediately after planting.
3. Maintain cover with protectant fungicide sprays at 7-10 day intervals.
4. If weather conditions favour Botrytis infection, tank mix the protectant with Sindon 500 SC.
5. Do not apply Sindon 500 SC (or other Group 2 Fungicides) more than four times per season, irrespective of the target disease.

Apply 2 sprays, once immediately before and once immediately after hilling-up. For most effective treatment, concentrate the spray at the base of the stems and surrounding soil surface, where the fungus is active. Use the higher rate where disease is severe.

Ensure thorough coverage to the whole plant. Treatment is generally not required until after flowering. Use the higher rate where disease is severe. Limit the use of Sindon 500 to periods when conditions favour disease development.

**This use is subject to an CropLife fungicide resistance management strategy:**

The number of consecutive applications of Group 2 fungicides permitted is limited. Refer to CropLife Australia Resistance Management Guidelines. See under "General Instructions – Resistance Management " for details of where these guidelines can be obtained.

Sindon 500 SC will protect emerging shoots from hypocotyl rot, improving overall germination. Sindon 500 SC may also reduce occurrence of black scurf on the harvested potatoes. Ensure good coverage of seed material and planting furrow. This can be achieved by applying Sindon 500 SC as a fine spray to the seed at the time of planting using spray equipment mounted on the planter, and nozzles located at three points on each planter row to ensure uniform coating of the seed. DO NOT plant into waterlogged soil. A minimum water volume of 80L/tonne seed should be used.

## Vegetables: (continued)

CROP	DISEASE	STATE	RATE	WHP
Tomatoes	Sclerotinia rot ( <i>Sclerotinia sclerotiorum</i> )	Qld, NSW, Tas, SA, WA only	1.0 L/ha where spray volume is less than 1000 L/ha <b>OR</b> 100 mL/ 100L water where spray volume equals or exceeds 1000 L/ha	7 days
	Grey mould ( <i>Botrytis cinerea</i> )	All States		
	Target spot (early blight) ( <i>Alternaria solani</i> )	Qld, Tas, WA, NT only		

## Field Crops:

CROP	DISEASE	STATE	RATE	WHP
Lucerne	Lucerne leaf spot ( <i>Stemphylium botryosum</i> )	Qld, WA only	250 mL to 500L/ha where spray volume is less than 1000L/ha <b>OR</b> 25 to 50 mL per 100 L water where spray volume equals or exceeds 1000 L/ha	7 days
	Leptosphaerulina leaf spot ( <i>Leptosphaerulina trifolii</i> )			

## CRITICAL COMMENTS

Spray at 14-day intervals from transplanting and throughout the period of disease pressure.

Commence spraying 3 to 4 weeks after transplanting or at the onset of disease. Repeat treatment at 14-day intervals or when conditions favour spread of the disease, i.e. at trimming or de-leafing.

**This use is subject to an CropLife fungicide resistance management strategy:**

1. Alternate or tank mix Sindon 500 SC with a protectant such as chlorothalonil. Avoid applying two Sindon 500 SC (or other Group 2 fungicide) sprays in succession, unless tank mixed with a protectant.
2. Do not apply more than four Sindon 500 SC (or other Group 2 fungicide) sprays in a season.

Commence spraying 1 week post-transplanting. Use adequate water to give thorough coverage of the plants. Use high volume spray equipment.

**This use is subject to an CropLife fungicide resistance management strategy:**

1. Limit the use of Sindon 500 SC to periods when conditions favour disease development.
2. DO NOT apply more than four Sindon 500 SC (or other Group 2 fungicide) sprays in one season. Apply no more than two consecutive sprays of a Group 2 fungicide.

## CRITICAL COMMENTS

Spray every 10 to 14 days when cool, damp weather favours the disease. Use the higher rate under conditions of high disease pressure.

Apply in at least 300L water/ha every 10 to 14 days when cool, damp weather favours the disease. Use the higher rate under conditions of high disease pressure.

## Field Crops: (continued)

CROP	DISEASE	STATE	RATE	WHP
Peanuts	Sclerotinia rot ( <i>Sclerotinia sclerotiorum</i> , <i>Sclerotinia minor</i> )	Qld, WA only	1.0 L/ha <b>OR</b> 220mL/ 100L water (spot application)	12 days
Soybeans	Black leaf blight ( <i>Arkoala nigra</i> )	NSW, WA only	1.0L/200 to 400 L water/ha	7 weeks

## Ornamentals

CROP	DISEASE	STATE	RATE	WHP
Ornamentals	Botrytis blight ( <i>Botrytis cinerea</i> )	All States	100 mL/ 100 L water	Nil

**NOT TO BE USED FOR ANY PURPOSE OR IN ANY MANNER  
APPROPRIATE LEGISLATION.**

## WITH-HOLDING PERIODS:

SITUATION	
<b>HARVEST</b>	Almonds, macadamias, mandarins, potatoes, stone fruit
	Boysenberries, celery, raspberries, strawberries, youngberries
	Grapes, kiwifruit, lettuce, tomatoes and passionfruit
	Peanuts
	Soybeans
<b>GRAZING</b>	Lucerne

**CRITICAL COMMENTS**

Apply when disease first appears. Repeat if necessary. Use a high water volume to ensure good coverage of foliage and stem at ground level.  
Do not mix Sindon 500 SC with a foliar fungicide due to the different target positions on the plant.

If disease is present on leaves apply an initial spray at early pod set (pods approximately 5 mm long). An additional spray 14 days later may be required if wet seasonal conditions prevail.

**CRITICAL COMMENTS**

Spray at 14 day intervals commencing when the disease first becomes apparent and continuing until conditions no longer favour the disease. Spraying saintpaulia and poinsettia flowers may result in some petal scorch. Tepid water should be used and wet plants protected from direct sunlight.

**This use is subject to an CropLife fungicide resistance management strategy:**

DO NOT apply more than two consecutive sprays of a Group 2 fungicide.

**CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER**

**WITH-HOLDING PERIOD**

**NOT REQUIRED WHEN USED AS DIRECTED**

**DO NOT HARVEST FOR 1 DAY AFTER APPLICATION.**

**DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION.**

**DO NOT HARVEST FOR 12 DAYS AFTER APPLICATION.**

**DO NOT HARVEST FOR 7 WEEKS AFTER APPLICATION.**

**DO NOT GRAZE OR CUT FOR STOCK FOOD WITHIN 7 DAYS OF TREATMENT**

# GENERAL INSTRUCTIONS

## GROUP 2 FUNGICIDE

### Fungicide Resistance Warning

Sindon 500 SC Fungicide is a member of the dicarboximide group of fungicides. For fungicide resistance management the product is a Group 2 fungicide. Some naturally occurring individual fungi resistant to the product and other Group 2 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 this product or other Group 2 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, Sinon Australia Pty Limited accepts no liability for any losses that may result from the failure of this product to control resistant fungi.

### Resistance Management

Rotate use of this product with as many different modes of action as possible to reduce the possibility of resistance development where alternatives are available.

Where specific resistance management strategies are established these are detailed in the CropLife Australia website (<http://www.croplifeaustralia.org.au>) or from your local agronomist.

### Export of treated produce

Growers should note that MRLs or import tolerances may not exist in all markets for produce treated with Sindon 500 SC. If you are growing produce for export, please check with Sinon Australia Pty Ltd for the latest information on MRLs and import tolerances BEFORE using Sindon 500 SC.

### Mixing

Note: Sindon 500 SC may be unstable in conditions where the pH is 7 or higher. It is therefore essential to check the pH of the spray solution before adding Sindon 500 SC. A suitable registered buffering agent may have to be added to bring the pH down below 7. Add the required amount of Sindon 500 to the spray tank containing half the required volume of water. Mix thoroughly and make up to the required volume with water.

### Application

Good disease control requires even, thorough coverage of the target area. Application should be made using appropriate spray equipment and sufficient water to provide adequate penetration and coverage. Equipment settings and water volume may need to vary, depending on the growth stage of the crop.

## Special Instructions for Tree Crops/Vines

### 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 spray solution to cover the crop to the point of run-off. Avoid excessive run-off. The required spray volume to achieve point of run off may be determined by applying different test volumes, using different settings on the sprayer, or from industry guidelines or other 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 to achieve point of run-off will change and the sprayer set up and operation may also need to be changed, as the crop grows.

### Concentrate Spraying

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 determine above: for example 1500 L/ha
2. Your chosen concentrate spray volume: for example 500 L/ha
3. The concentration factor in this example is:  $3x$  (i.e.  $1500L \div 500L = 3$ )
4. If the dilute label rate is 10mL/100L, then the concentrate rate becomes  $3 \times 10$ , that is 30 mL of product per 100L water for concentrate spraying.

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

### Compatibility

Sindon 500 SC is compatible with the following products:

\*Aliette WG (see NOTE below), Bugmaster Flowable, calcium chloride, chlorpyrifos 500 EC, copper oxychloride, dimethoate, Dithane, Dithane M-45, endosulfan, Kelthane EC, maldison, metalaxyl, methomyl or parathion-methyl.

When tank mixing products the order of mixing is determined by formulation type. As a guide the following mixing sequence is recommended:

1. Wettable powders
2. Suspension concentrates
3. Water Dispersible Granules
4. Suspo-emulsions (e.g. Sindon 500 SC)
5. Soluble powders
6. Solutions
7. Emulsifiable concentrates
8. Soluble concentrates
9. Wetting agents and oils

With any mixture, thoroughly agitate immediately before applying. It is not recommended to mix this product with more than one of the above chemicals in the tank. The use of a surfactant or spray oil is not recommended with Sindon 500 SC as it may result in crop damage to sensitive plants. DO NOT mix with fertilisers. NOTE: Mixing Sindon 500 SC with Aliette WG may result in some settling out.

As formulations of other manufacturers' products are beyond the control of Sinon Australia Pty Limited, all mixtures should be tested prior to mixing commercial quantities.

## **PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS**

DO NOT apply the products under weather conditions, or from spraying equipment that may cause spray drift onto nearby plants/ crops, cropping lands or pasture.

## **PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT**

Toxic to aquatic organisms. DO NOT contaminate streams, rivers or waterways with the chemical or used containers.

## **STORAGE AND DISPOSAL**

Keep out of reach of children. Store in the closed, original container in a secure, cool, well-ventilated area. Do not store for prolonged periods in direct sunlight. Protect from frost.

This container can be recycled if it is clean, dry, free of visible residues and has the drumMUSTER logo visible. Triple or preferably pressure rinse containers before disposal. Dispose of rinsate by adding it to the spray tank. DO NOT dispose of undiluted chemicals on site. Wash outside of the container and the cap. Store cleaned container in a sheltered place with cap removed. It will then be acceptable for recycling at any drumMUSTER collection point or similar container management program site. The cap should not be replaced but may be taken separately.

If not recycling, break, crush, or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the empty 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.



For Refillable containers (110L): Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

## **SAFETY DIRECTIONS**

May irritate eyes. Avoid contact with eyes and skin. When opening the container and using the product wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), elbow-length PVC gloves and face shield. If product comes in contact with skin, immediately wash area with soap and water. After use and before eating drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, 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 (SDS) which is available from the supplier.

## **NOTICE TO BUYER**

Seller warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label when used in accordance with directions under normal conditions of use. No warranty of merchantability for a particular purpose, express or implied, extends to the use of the product contrary to label instructions, or under abnormal conditions.

**NOT A DANGEROUS GOOD ACCORDING TO THE  
AUSTRALIAN DANGEROUS GOODS (ADG) CODE.**

