

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

ORTHOCLIDE® WG

Fungicide



ACTIVE CONSTITUENT: 800 g/kg CAPTAN

GROUP M4 FUNGICIDE

**WATER DISPERSIBLE GRANULE FUNGICIDE FOR THE CONTROL OF CERTAIN DISEASES
IN A RANGE OF FRUIT CROPS, GREENHOUSE CROPS, ORNAMENTALS AND TURF AS
SPECIFIED IN THE DIRECTIONS FOR USE TABLE**

IMPORTANT: READ THE ATTACHED LEAFLET BEFORE USING THIS PRODUCT.

10 kg NET

Arysta Lifescience Corporation

ABN 37 832 141 368

77-79 Canterbury Rd Canterbury Vic 3126 Australia

Telephone 03 9830 7011 Facsimile 03 9830 7611



Arysta LifeScience

55063_48923_10kg_immediate_MPL_V01 10/3/2010 A4 76%, A3 100%	
Dimensions	Size 260mm H x 250mm W
Scale	Prints at 100% A3
Date	09/03/2010

STORAGE AND DISPOSAL:

Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight. Store in a locked room or place away from children, animals, food, feedstuffs, seeds and fertilisers.

Avoid preparation of excess spray, but if necessary, spray out excess mixed sprays or dispose of in a soil pit which does not drain into waterways or ponds.

Degradation of excess material may be hastened by making solutions alkaline with lime or washing soda.

Single rinse before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. Crush, puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the 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.

SAFETY DIRECTIONS:

Harmful if inhaled or swallowed. Will damage eyes. May irritate the skin, nose and throat. Avoid contact with eyes and skin. If product or spray in eyes, wash it out immediately with water. Do not inhale dust or spray mist. When opening the container, mixing, loading and preparing spray, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), elbow length rubber gloves and face shield or goggles. When using the prepared spray wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), and elbow length rubber gloves. Repeated exposure may cause allergic disorders. Sensitive workers should use protective clothing. Wash hands after use. After each day's use wash gloves, goggles and contaminated clothing.

FIRST AID:

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 1126.

MSDS:

Additional Information is listed in the Material Safety Data Sheet that is available from the supplier.

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, Arysta LifeScience Corporation accepts no liability or responsibility for loss or damage arising from failure to follow such directions and instructions.

®Registered Trademark of Arysta LifeScience

BATCH No.

DOM:

APVMA Approval No. 55063/10kg/1209

THIS PRODUCT IS NOT CONSIDERED TO BE A DANGEROUS GOOD UNDER THE AUSTRALIAN CODE FOR THE TRANSPORT OF DANGEROUS GOODS BY ROAD OR RAIL

**In a Transport
Emergency
Dial 000
Police or Fire Brigade**

**SPECIALIST ADVICE
IN EMERGENCY ONLY
ALL HOURS –
AUSTRALIA WIDE
1800 024 973**

File name	55063_xxxx_10kg Back MPL_V1.pdf
Dimensions	Size 260mm H x 250mm W
Scale	Prints at 100% A3
Date	09/03/2010

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

ORTHOCLIDE® WG

Fungicide

ACTIVE CONSTITUENT: 800 g/kg CAPTAN

GROUP M4 FUNGICIDE

WATER DISPERSIBLE GRANULE FUNGICIDE FOR THE CONTROL OF CERTAIN DISEASES IN A RANGE OF FRUIT CROPS, GREENHOUSE CROPS, ORNAMENTALS AND TURF

AS SPECIFIED IN THE DIRECTIONS FOR USE TABLE

CROP	DISEASE	RATE	WHP	CRITICAL COMMENTS
Turf	Brown patch (<i>Rhizoctonia solani</i>)	100-150 g in 25-50 L water for each 100 m ² of turf.	–	For preventative treatment from September to April, apply every 5–6 weeks. Apply no more than 5 applications per season.
Seedlings (Ornamentals and Tobacco)	Damping-off (<i>Pythium</i> spp.)	125 g/100 L water	–	Use 3 litres of solution per m ² of seedbed. Apply weekly to fortnightly when weather conditions favouring the disease persist, paying particular attention to bases of the seedlings. When treating tobacco seedbeds wait until seedlings are at least 5 cm high.
Roses	Black spot (<i>Diplocarpon rosae</i>)	125 g/100 L water	–	Apply to thoroughly wet both surfaces of foliage. Apply every 7–14 days. Use the shorter interval during showery weather. Apply no more than 5 applications per season.

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

WITHHOLDING PERIODS

STRAWBERRIES: DO NOT HARVEST FOR 1 DAY AFTER APPLICATION

APPLES, GRAPES, PEARS, STONE FRUIT: DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION.

DO NOT USE TREATED PRODUCE FOR STOCK FOOD WITHIN 7 DAYS OF TREATMENT.

FOR EXPORT CROPS: consult with your exporter for advice about any residue restrictions that may apply to the intended importing country.

GENERAL INSTRUCTIONS:

Orthoclide WG is a broad-spectrum contact, protectant fungicide from the cyclic imide chemical group. Orthoclide WG has no systemic activity so complete coverage of the target is essential for best results.

Fungicide Resistance Warning

GROUP M4 FUNGICIDE

For fungicide resistance management Orthoclide WG is a Group M4 fungicide.

Some naturally occurring individual fungi resistant to Orthoclide WG and other Group M4 fungicides may exist through normal genetic variability in any fungal population. The resistant individuals can eventually dominate the fungi population if these fungicides are used repeatedly. These resistant fungi will not be controlled by Orthoclide WG and other Group M4 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, Arysta LifeScience Corporation accepts no liability for any losses that may result from the failure of Orthoclide WG to control resistant fungi.

Mixing/Application MIXING

Partly fill the spray tank with water. Turn on agitation and while continuing to fill the tank, add the required amount of Orthoclide WG to the tank filling screen filter. Wash with filling hose to transfer the product into the tank. Maintain agitation during spraying and agitate thoroughly after a stoppage. Add any tank mixing partners just before tank filling is complete.

APPLICATION

Ground application: The rates suggested are for high volume spraying to point of run-off. For concentrate spraying, adjust dilution rate accordingly. Use the highest recommended rate and/or the shortest spray interval when disease pressure is high. Ensure thorough coverage of all parts of treated plants. DO NOT apply by aircraft.

DILUTE SPRAYING

Use a sprayer designed to apply high volumes of water up to the point of runoff 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 100L 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

- Use a sprayer designed and set up for concentrate spraying (that is a sprayer which applies water 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 water 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:
 - Dilute spray volume as determined above: For example 1500L/ha
 - Your chosen concentrate spray volume: For example 500L/ha
 - The concentration factor in this example is: 3 X (ie. 1500L = 500L = 3)
- If the dilute label rate is 10mL/100L, then the concentrate rate becomes 3 x 10, that is 30mL/100L of concentrate spray.
- The chosen spray volume, amount of product per 100L 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 and Crop Safety

Orthoclide WG is compatible with any one of the following products: Anvil®, PennCap-M®, Gusathion® 200 SC with or without calcium nitrate, Bugmaster® Flowable, Confidor®, Hymal, Insegar®, Lebaycid®, Mavrik® Aquaflo, Omite® 300 WG (apples only), Pirimor® WG, Pyranica®, Saboteur®, Sanmite®, Systhane®.

Mixtures of Orthoclide WG with commonly used wettable powders and suspension concentrate insecticides and fungicides should not cause any problems. Apart from the products listed above use with emulsifiable concentrates is not recommended.

Mixtures of Orthoclide WG with Lorsban® 500 EC or Nimrod® may leave an oily residue on the inside of spray vats which may be difficult to remove.

Orthoclide WG should not be combined with Bordeaux mixture, spray lime, lime sulfur or oils. Do not apply Orthoclide WG in combination with or immediately before or closely following oil sprays. Orthoclide WG mixed with Sulfur should not be used on crops sensitive to sulfur.

A mixture of Orthoclide WG with more than one of these products or with any other product may be ineffective or may cause serious damage. The use of such mixtures is not recommended and would therefore be entirely at the user's risk.

If tank mixes are to be used, observe all directions, precautions and limitations on all products to be used. Caution should also be exercised when spraying any mixtures on varieties of fruit trees or vines where there has been no previous experience of mixtures with Orthoclide WG.

Orthoclide WG mixed with Folidol® M500 may be phytotoxic to many varieties of apples and pears. If it is necessary to use both Orthoclide WG and Folidol M500 in a spray program, sprays of these products must be at least 7 days apart. On pears, tank mixtures of Orthoclide WG plus Omite® 300 WG and Orthoclide WG with Gusathion® (without calcium nitrate) plus Omite® 300 WG have been found to be phytotoxic. Do not tank mix these products for use on pears.

Caution should be taken when applying chemical mixtures to all crops. Varieties within crop groups may react differently therefore a small area should be treated prior to application to crop.

PRECAUTION

Re-entry periods

Strawberries: Do not allow entry into treated areas for 24 hours. When prior entry is necessary wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), shoes plus socks, protective eyewear and chemical resistant gloves. Clothing must be laundered after each day's use.

Apples, pears, stone fruit, and grapes: Do not allow entry into treated areas for 7 days. When prior entry is necessary wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), shoes plus socks, protective eyewear and chemical resistant gloves. Clothing must be laundered after each day's use.

Turf, seedlings and roses: Do not allow entry into treated areas until the spray has dried. When prior entry is necessary wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), shoes plus socks, protective eyewear and chemical resistant gloves. Clothing must be laundered after each day's use.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT:

Dangerous to fish. DO NOT apply directly to water. DO NOT apply under meteorological conditions or from spraying equipment which could be expected to cause spray drift onto water, or to areas where surface water is present. DO NOT contaminate surface water with the concentrated product, spray mix, rinsate, drainage water from glasshouses or the used container.

STORAGE AND DISPOSAL:

Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight. Store in a locked room or place away from children, animals, food, feedstuffs, seeds and fertilisers.

Avoid preparation of excess spray, but if necessary, spray out excess mixed sprays or dispose of in a soil pit which does not drain into waterways or ponds.

Degradation of excess material may be hastened by making solutions alkaline with lime or washing soda.

Single rinse before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. Crush, puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the 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.

SAFETY DIRECTIONS:

Harmful if inhaled or swallowed. Will damage eyes. May irritate the skin, nose and throat. Avoid contact with eyes and skin. If product or spray in eyes, wash it out immediately with water. Do not inhale dust or spray mist. When opening the container, mixing, loading and preparing spray, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), elbow length rubber gloves and face shield or goggles. When using the prepared spray wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), and elbow length rubber gloves. Repeated exposure may cause allergic disorders. Sensitive workers should use protective clothing. Wash hands after use. After each day's use wash gloves, goggles and contaminated clothing.

FIRST AID:

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 1126.

MSDS:

Additional Information is listed in the Material Safety Data Sheet that is available from the supplier.

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, Arysta LifeScience Corporation accepts no liability or responsibility for loss or damage arising from failure to follow such directions and instructions.

THIS PRODUCT IS NOT CONSIDERED TO BE A DANGEROUS GOOD UNDER THE AUSTRALIAN CODE FOR THE TRANSPORT OF DANGEROUS GOODS BY ROAD OR RAIL	
In a Transport Emergency Dial 000 Police or Fire Brigade	SPECIALIST ADVICE IN EMERGENCY ONLY ALL HOURS – AUSTRALIA WIDE 1800 024 973

*Registered Trademark of Arysta LifeScience

APVMA Approval No. 55063/10kg/1209

DIRECTIONS FOR USE

Tree and Vine Crops

RATE				CRITICAL COMMENTS
In the following table, all rates are given for dilute spraying. For concentrate spraying, refer to the Mixing/Application section.				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.
CROP	DISEASE	RATE	WHP	CRITICAL COMMENTS
Apples	Black spot (<i>Venturia inaequalis</i>)	Dilute spraying 125 g/100 L water	7 days	Apply from pink stage onwards following a copper spray at green tip, then at 7-day intervals until petal fall. After petal fall apply as a cover spray at 10–14 day intervals. The risk of russet may be increased in some varieties. Where this is of concern use alternative materials between full bloom and second cover. Apply to point of run-off. Apply no more than 5 applications per season. Apply by dilute spraying equipment. Apply the same total amount of product to the target crop whether applying this product by dilute or concentrate spraying methods.
		Concentrate spraying Refer to the Mixing/Application section		
Pears	Black spot (<i>Venturia pirina</i>)		7 days	Apply from pink stage onwards following a copper spray at green tip, then at 7-day intervals until petal fall. After petal fall apply as a cover spray at 10–14 day intervals. The risk of russet may be increased in some varieties. Where this is of concern use alternative materials between full bloom and second cover. Apply to point of run-off. Apply no more than 5 applications per season. Apply by dilute spraying equipment. Apply the same total amount of product to the target crop whether applying this product by dilute or concentrate spraying methods.
Grapes	Black spot (<i>Elsinoe ampelina</i>)		7 days	Apply at 50% bud-burst and repeat application 10–14 days later. Apply to point of run-off. Apply no more than 5 applications per season. Apply by dilute spraying equipment. Apply the same total amount of product to the target crop whether applying this product by dilute or concentrate spraying methods.
	Grey mould (<i>Botrytis cinerea</i>)			Apply in a program of sprays applied at early flowering, 80–100% cap fall, pre-bunch closure, veraison and pre-harvest. Apply to point of run-off. Apply no more than 5 applications per season. Apply by dilute spraying equipment. Apply the same total amount of product to the target crop whether applying this product by dilute or concentrate spraying methods.
	Downy mildew (<i>Plasmopara viticola</i>)			Apply from flowering onwards, at intervals of 10–14 days. Apply to point of run-off. Apply no more than 5 applications per season. Apply by dilute spraying equipment. Apply the same total amount of product to the target crop whether applying this product by dilute or concentrate spraying methods.
	Phomopsis Cane and Leaf Blight (<i>Phomopsis viticola</i>)			Commence application at early budburst and repeat at 7 to 14 day intervals until prior to flowering to maintain a cover of new grape foliage. Apply no more than 5 applications per season. Use the shorter application interval where there is rapid shoot growth and conditions are favourable for Phomopsis infection (wet weather). Adjust spray application equipment to obtain a thorough coverage of grape buds and shoots. Do not use at concentrate spray rates greater than 5X the dilute application rate.
Stone Fruit (Except apricots)	Blossom blight and Brown rot (<i>Sclerotinia laxa</i> , <i>S. fructicola</i>)	Dilute spraying 125 g/100 L water Concentrate spraying Refer to the Mixing/Application section	7 days	Apply at any of the following times as part of a spray program to control blossom blight and brown rot – pink bud, 10% blossom, full bloom, petal fall and shuck fall and pre-harvest sprays at 6, 3, and 1 week prior to harvest. Apply to point of run-off. Apply no more than 5 applications per season. Do not apply to apricots as damage to fruit and foliage may occur. Apply by dilute spraying equipment. Apply the same total amount of product to the target crop whether applying this product by dilute or concentrate spraying methods.

DIRECTIONS FOR USE

Non Tree and Vine Crops

CROP	DISEASE	RATE	WHP	CRITICAL COMMENTS
Strawberries	Grey mould (<i>Botrytis cinerea</i>)	125 g/100 L water	1 day	Apply every 10 days commencing at blossom stage. Apply to point of run-off. Apply no more than 5 applications per season.
	Gloeosporium fruit rot			
	Phytophthora fruit rot (<i>Phytophthora nicotianae</i> var. <i>parasitica</i>)	200 g/100 L water		
	Black spot (Anthracnose) (<i>Colletotrichum acutatum</i>)			
	Scorch (<i>Diplocarpon earlianum</i>)			
	Leaf blight (<i>Dendrophoma obscurans</i>)			

File name	55063_xxxx_10kg_Leaflet_MPL_V1.pdf
Dimensions	Size 480mm H x 300mm W Folded Size 160mm H x 150mm W
	55063_48923_10kg_leaflet_MPL_V01 10/3/2010 A4 54%, A3 76%
Date	09/03/2010