

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

WHACK FUNGICIDE

ACTIVE CONSTITUENT: 720g/L CHLOROTHALONIL

GROUP	Y	FUNGICIDE
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For the control of fungal diseases on almonds, apricots, bananas, carrots, celery, cherries, faba beans, grapes, onions, peaches, peanuts, peas, plums, potatoes, tomatoes, turf and vegetables as per the Directions for Use Table.

READ THE ATTACHED BOOKLET BEFORE USE

CONTENTS: 1, 5, 10, 20, 110, 200, 1000 Litres

ChemAg Pty Ltd ACN 009 234 691
Suite 12, 11 Preston Street Como Western Australia 6152
Tel: (08) 9367 1799 Fax: (08) 9368 6144
Email: sales@chemag.com.au

PROTECTION OF LIVESTOCK

DO NOT contaminate feed or foodstuffs with this product or empty containers.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Dangerous to fish. DO NOT contaminate streams, rivers or waterways with chemical or used container.

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 or preferably pressure rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. Break, crush or puncture and bury the empty containers in a local authority landfill. If no landfill is available, bury the containers 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

Attacks eyes and skin. Avoid contact with eyes and skin. Do not inhale spray mist. Repeated exposure may cause allergic disorders. Sensitive workers should wear protective clothing. When preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and goggles and disposable mist mask. If clothing becomes contaminated with product or wet with spray remove clothing immediately. If product on skin immediately wash area with soap and water. If product in eyes, wash out immediately with water. After use and before eating, drinking or smoking, wash hands, arms face thoroughly with soap and water. After each day's use wash gloves, goggles and contaminated clothing.

FIRST AID

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

If swallowed, DO NOT induce vomiting. Give a glass of water.

MSDS

For further information refer to the Material Safety Data Sheet (MSDS).

CONDITIONS OF SALE

The use of "Whack Fungicide" being beyond the control of the manufacturer, no warranty expressed or implied is given by ChemAg Pty Ltd. regarding its suitability, fitness or efficiency for any purpose for which it is used by the buyer, whether in accordance with the directions or not and ChemAg Pty Ltd. accepts no responsibility for any consequence whatsoever resulting from the use of this product.

IN A TRANSPORT EMERGENCY DIAL 000 POLICE OR FIRE BRIGADE

NRA Approval No: 53613/0403

Batch Number:

Date of Manufacture:

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This Booklet is part of the label.

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DIRECTIONS FOR USE

Restraints: **DO NOT** mix spraying oils or wetting agents with this product.

For all stone fruit except cherries, the following additional restraints apply:

DO NOT use oils after bud-swell and during the season Whack Fungicide is to be used after shuck fall.

DO NOT tank mix Whack Fungicide with EC formulations when spraying at shuck fall.

DO NOT exceed 3.2L of Whack Fungicide per hectare of crop.

1. Tree and Vine Crops					
Rate				Critical Comments	
This table shows rates for dilute spraying. For concentrate spraying refer to the Mixing / Application Section				For uses in the 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. DO NOT use at rates greater than 5 times the dilute spraying rate.	
Situation & Crop	States	Disease	Rate	WHP (days)	Critical Comments
Almonds	NSW, WA, SA, Vic & Tas only	Shot-hole (<i>Stigmia carpophila</i>) Stone fruit rust (<i>Tranzschelia discolor</i>)	160mL / 100L Apply 2000L/ha	-	Apply at bud-swell, bud-burst, shuck fall, cap fall. Apply every 10-14 days. Apply 1 week pre-harvest.
Apricots		Brown rot – Fruit (<i>Monilinia fructicola</i>) Blossom blight (<i>Monilinia laxa</i>)		7	Apply at bud-swell, bud-burst, pink bud, full bloom. Apply no later than 35 days pre-harvest. See also Additional Restraints for stone fruits. Spray applications later than 35 days prior to harvest may result in unacceptable fruit skin damage. See also Additional Restraints for stone fruit.
		Shot-hole (<i>Stigmia carpophila</i>) Stone fruit rust (<i>Tranzschelia discolor</i>) Freckle (<i>Venturia carpophilia</i>)			Apply at bud-swell, bud-burst, pink bud, shuck fall, cap fall, then every 10-14 days.
Cherries	Vic, NSW, SA, QLD, WA & Tas only	Brown rot – Fruit (<i>Monilinia fructicola</i>) Blossom blight (<i>Monilinia laxa</i>)	160mL/100L Apply 2000L/ha	7	Apply at bud-swell, bud burst, pink bud, early blossom, fill bloom. Apply 3 weeks pre-harvest and 1 week pre-harvest.
	All States	Shot-hole (<i>Stigmia carpophila</i>) Stone fruit rust (<i>Tranzschelia discolor</i>)			Apply at bud-swell, bud burst, pink bud, shuck fall, cap fall, then every 10-14 days. Apply 1 week pre-harvest.
		Transit rot (<i>Rhizopus stolonifer</i>)			Apply 1 week pre-harvest.

Grapes Note: russetting of some table grape varieties may occur.	All States	Downy mildew (<i>plasmopara viticola</i>) Bunch rot (<i>Botrytis cinerea</i>)	160-210 mL/100L	Dessert 7 Wine 14	Spray at first appearance of the foliage disease. Apply at 7-14 day intervals particularly during wet weather and periods of rapid growth. For bunch rot, applications at early full bloom, two weeks later, at veraisson and two weeks prior to harvest. Table grapes – russetting of some varieties may occur. Do not apply after cap fall on these varieties.	
		Black Spot (Anthracnose) (<i>Elsinoe ampelina</i>)	210mL/100L		If Black Spot has occurred in the vineyard in any of the last 3 years, apply at budburst and 14 days later when shoots are 10-15cm long. If wet/humid conditions persist spray again when shoots are 20-30cm long to protect new growth. Some initial minimal leaf damage on the new shoots of sensitive varieties can occur if spray treatments are applied at budburst and in the first 14 days after budburst. In vineyards with no history of Black Spot, spray only at the first appearance of the disease on the foliage and then at 7 – 14 day intervals if wet/humid conditions persist. Applications up to cap-fall will not cause russetting in Table grape and dried fruit varieties.	
Nectarines	All States except Qld	Shot-hole (<i>Stigmina carpophila</i>)	160mL/100L Apply 2000 L/ha	7	Apply at bud-swell, pink bud, shuck fall and then repeat each 14 days if weather conditions favour disease.	Spray applications later than 35 days prior to harvest may result in unacceptable fruit skin damage. See also Additional Restraints for stone fruits.
		Brown Rot – Fruit (<i>Monilinia fructicola</i>) Blossom blight (<i>Monilinia laxa</i>)			Apply at first bud-swell, bud burst, pink bud, early blossom and full blossom.	
Peaches	All States	Brown rot – Fruit (<i>Monilinia fructicola</i>) Blossom blight (<i>Monilinia laxa</i>)	160mL/100L Apply 2000 L/ha	7	Apply at bud-swell, pink bud, early blossom and full bloom.	Spray applications later than 35 days prior to harvest may result in unacceptable fruit skin damage. See also Additional Restraints for stone fruits.
		Shot-hole (<i>Stigmina carpophila</i>) Stone fruit rust (<i>Tranzschelia discolor</i>)			Apply at bud-swell and continue at 7 –14 day intervals.	
		Leaf Curl (<i>Taphrina deformans</i>)			Apply at bud-swell and continue at 7 – 14 day intervals. In QLD spray only at bud-swell.	
Plums	Vic, NSW, SA, QLD, WA & Tas only	Brown rot – fruit (<i>monilinia fructicola</i>) Blossom blight (<i>Monilinia laxa</i>)	160mL/100L apply 2000 L/ha	1	Apply at bud-swell, bud-burst, early blossom, pink bud and full bloom.	
	All States	Stone fruit rust (<i>Tranzschelia discolor</i>) Shot-hole (<i>Stigmina carpophila</i>)			Apply at bud-swell, bud burst, shuck fall and cap fall.	

2. Legumes					
Situation & Crop	States	Disease	Rate	WHP (days)	Critical Comments
Beans – Broad (Faba)	All States	Chocolate Spot (<i>Botrytis fabae</i>) Rust (<i>Uromyces viciae-fabae</i>)	1.4-2.3 L/ha	7	Apply at first sign of disease on the leaves or if weather conditions indicate likely incidence of disease. Repeat at 7-14 day intervals. Use the higher rate if the crop is dense and disease pressure is high.
Peanuts	Qld, NSW, WA & NT only	Early leaf spot (<i>Cercospora arachidicola</i>) Late leaf spot (<i>Cercosporidium personatum</i>) Peppery leaf spot (<i>Leptosphaerulina trifolii</i>) Peanut rust (<i>Puccinia arachidis</i>) Net blotch (<i>Didymosphaeria arachidicola</i>)	1.1 – 1.8 L/ha	-	Use higher rate when conditions favour leaf spot or when rust appears. Do not feed peanut vines to livestock. NSW and WA ONLY: Commence application when disease first appears and repeat as necessary to maintain control. QLD ONLY: NORTH AND SOUTH BURNETT – Commence spraying when disease appears and repeat when rain and warm moist nights are expected. ATHERTON TABLELANDS – Commence spraying 4-6 weeks after planting and repeat at 7-14 day intervals depending on conditions.
Peas	Qld, WA & Tas only	Downy mildew (<i>Peronospora viciae</i>)	1.1 – 1.8 L/ha	7	Apply at first sign of disease on the leaves or if weather conditions indicate likely incidence of disease. Repeat at 7-14 day intervals. Use the higher rate if the crop is dense and disease pressure is high.

3. Vegetables & Fruit					

Situation & Crop	States	Disease	Rate	WHP (days)	Critical Comments
Artichoke - Globe	All States	Grey Mould (<i>Botrytis cinerea</i>)	1.8 – 2.3 L/ha	1	Apply at 7-10 day intervals as required. Use the higher rate if disease pressure is high.
Bananas Do not apply to bananas within 14 days of applying an oil based spray or crop damage will occur	QLD, NSW, WA, NT only	Leaf Spot (<i>Mycosphaerella musicola</i>)	1.8 L/ha	1	For North Qld – Spray every 14 days late January to end of March. Extend to 21 days after March and then 28-35 days in the drier months of the year. For South Qld – Spray every 21 days from start of December to end of April. For NSW – Spray every 10-14 days from November to end of May. For WA – Spray every 10-14 days from November to end of May and extend to 14-21 days from May to November.
	WA only		1.5 L/ha		
	Qld, NSW, WA & NT only	Leaf Speckle (<i>Mycosphaerella Musae</i>)	3.0L/ha		
Broccoli, Brussels sprouts, Cabbages, Cauliflowers	All States	Ring Spot (<i>Mycosphaerella Brassicicola</i>)	1.8-3.5 L/ha	7	Apply at first sign of disease on the leaves or if weather conditions indicate likely incidence of disease. Repeat at 14-day intervals. Use the higher rate if the crop is dense and disease pressure is high.
Capsicums Peppers	All States	Grey mould (<i>Botrytis cinerea</i>) Anthracnose (<i>Colletotrichum ascutatum</i>)	1.8-2.3 L/ha	1	Apply at 7-10 day intervals as required. Use the higher rate if disease pressure is high.
Carrots	All States	Leaf Blight (<i>Alternaria dauci</i>)	1.8 L/ha	7	Commence application at first sign of disease and then spray every 7-14 days.
Celery		Septoria leaf spot (<i>Septoria apilicola</i>)		1	Apply every 7-14 days. Apply also to seed beds.
	NSW & WA only	Cercospora early blight (<i>Cercospora apii</i>)	1.2 L/ha		Apply every 10-14 days
Cucurbits (including, Cantaloupe, Cucumber, Honeydew, Muskmelon, Pumpkin, Squash, Rockmelon, Watermelon, Zucchini)	All States	Downy mildew (<i>Pseudoperonospora Cubensis</i>) Gummy stem blight (<i>Didymella bryoniae</i>) Anthracnose (<i>Colletotrichum orbiculare</i>) Leaf Blight (<i>Alternaria cucumerina</i>) Target leaf spot (<i>Cercospora citrullina</i>)	1.6-2.5 L/ha		Apply on a 7 to 14 day schedule. Apply rates towards the higher end of the recommended range at 7 day intervals when disease pressure is high. Commence spray program early, at first true leaf and before vining or flowering. When used at these rates, this product will suppress powdery mildew.
		Belly Rot (<i>Rhizoctonia solani</i>)			Suppression of belly rot will be obtained where fruit form on soil when sprayed using the above foliar spray program.

Endive	All States	Grey Mould (<i>Botrytis cinerea</i>)	1.8 – 2.3L/ha	1	Apply at 7-10 day intervals as required. Use the higher rate if disease pressure is high.
Leeks, Shallots		Purple blotch (<i>Alternaria porri</i>)			Apply at first appearance of disease. Repeat at 7 – 10 day intervals, particularly during wet weather.
Okra	(QLD, WA only)	Leaf diseases/spot	1.8 – 2.3L/ha	1	Apply at first appearance of disease. Repeat at 7-10 day intervals.
Onions (excluding spring onions)	All States	Downy mildew (<i>Peronospora destructor</i>)	2.3 L/ha	14	Apply at first sign of disease on the leaves or if weather conditions indicate likely incidence of disease. Repeat at 14 day intervals.
Potato	All States	Early blight or Target spot (<i>Alternaria solani</i>) Late blight or Irish blight (<i>Phytophthora infestans</i>)	1.1 – 1.8 L/ha	-	Spray at first sign of foliage disease or at flowering time, whichever is earlier. Spray every 7-14 days until within 14 days of desiccation or harvest..
Radish	All States	Grey mould (<i>Botrytis cinerea</i>)	1.8 – 2.3L/ha	1	Apply at 7-10 day intervals as required. Use the higher rate if disease pressure is high.
Rhubarb	All States	Ascochyta leaf spot (<i>Ascochyta rhei</i>)	140mL/100L Apply 2000 L/ha	7	Apply every 10-14 days
Sweet corn	All States	Turcicum leaf blight (<i>Exaerohilum turcicum</i>)	1.8 – 2.3L/ha	1	Apply at first appearance of disease. Repeat at 7-10 day intervals.
Tomato	All States	Early blight or Target blight (<i>Alternaria solani</i>) Leaf mould (<i>Fulvia fulva</i>) Grey leaf spot (<i>Stemphylium solani</i>) Botrytis rot or Grey mould (<i>Botrytis cinerea</i>)	1.8 – 2.3 L/ha	1	Spray at first appearance of the foliage disease. Spray at 7-14 day intervals. Continue into the picking season to obtain best results against leaf mould and Botrytis rot.
Watercress	Qld & WA only	Cercospora leaf spot			Apply at 7-14 day intervals as required. Use the higher rate if disease pressure is high.

4. Miscellaneous					
Situation & Crop	States	Disease	Rate	WH P (days)	Critical Comments
Ornamentals Chrysanthemums, Geraniums, Iris & other ornamentals	All States	Botrytis, Grey mould, Rust diseases, Septoria and Alternaria leaf spot diseases	100mL/100 L	-	Apply at 7-14 day intervals. Use 7 day interval under severe conditions. Avoid application to blooms in azalea, hydrangea and petunia.
Tobacco	Qld & WA only	Tobacco leaf spot (<i>Ascochyta arida</i>)	220mL/100 L	-	Apply every 7 days in seed bed application only.
Turf & Lawns, Bowling greens, Golf greens	NSW, SA, Qld, WA, Vic, ACT only	Dollar Spot (<i>sclerotinia homeocarpa</i>)	130-200mL / 100m ² in 20-60 litres of water	-	If disease is already established use higher rate. Apply at 7-14 day intervals. Under severe conditions spray at 7 day intervals. Do not mow or water treated area until turf or lawn is thoroughly dry.
	All States	Brown Patch (<i>Rhizoctonia sp</i>)			
	NSW & WA only	Grey Leaf Spot (<i>Stemphylium solani</i>)	24 L/ha		Apply to leaf as a curative application. DO NOT irrigate for 24 hours after application

NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS

AUTHORISED UNDER APPROPRIATE LEGISLATION

WITHHOLDING PERIODS:

Artichoke, bananas, capsicum, celery, cucurbits, endive, leek, okra, peppers, plums, radish, shallots, sweet corn, tomatoes, watercress:
DO NOT HARVEST FOR 1 DAY AFTER APPLICATION.

Beans, broccoli, brussel sprouts, cabbages, cauliflowers, rhubarb:
Apricots, carrots, cherries, nectarines, peaches, table grapes, peas:
DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION.

Wine grapes, onions:
DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION.

Beans, Peanuts, peas:
DO NOT GRAZE LIVESTOCK ON TREATED CROPS.

Potatoes, Peanuts (Harvest)
NOT REQUIRED WHEN USED AS DIRECTED

GENERAL INSTRUCTIONS

This product is a protectant fungicide for the control of a range of diseases in fruit and vegetables. For effective disease control a good leaf cover must be achieved before a widespread disease outbreak occurs.

Mixing: Thoroughly shake and invert the pack several times before opening. Half fill spray vat and with agitation system running, add the required amount of product.

Application rates per hectare:

Low Volume – 200 litres or more.

High Volume – 500 litres or more.

Aerial Application – 20 litres or more

Mister – 75 – 255 litres.

The volume of water applied should increase as the plants grow in size to maintain adequate cover.

Compatibility: This product is compatible with wettable powder and flowable formulations of most commonly used fungicides, insecticides and miticides. Unless experience in your area has shown other combinations to be physically compatible and non-injurious to your crop do not combine with other chemicals, especially oil-based emulsifiable or flowable pesticides. This product should not be mixed with spraying oils or sprayed onto crops that have been sprayed with oil for at least 10 days after the last spray.

Wetting Agents: The addition of surfactants does not improve this product's efficiency and under some conditions may cause plant injury.

Fungicide Resistance Warning

GROUP	Y	FUNGICIDE
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Whack Fungicide is a member of the multi-site activity group of fungicides. For fungicide resistance management the product is a Group Y fungicide.

Some naturally occurring individual fungi resistant to Whack Fungicide and other Group Y fungicides may exist through normal genetic variability in any fungal population. The resistant individuals can eventually dominate the fungal population if these are used repeatedly. These resistant fungi will not be controlled by Whack Fungicide or other Group Y Fungicides, thus resulting in a reduction in efficiency and possible yield loss. Since the occurrence of resistant fungi is difficult to detect prior to use, ChemAg Pty Ltd accepts no liability for any losses that may result from the failure of Whack Fungicide to control resistant fungi.

Protection of Livestock

DO NOT contaminate feed or foodstuffs with this product or empty containers.

Protection of Wildlife, Fish, Crustaceans and Environment

Dangerous to fish. DO NOT contaminate streams, rivers or waterways with chemical or used containers.

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 or preferably pressure rinse containers before disposal. Add rinsings to the 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 bury containers at a local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, vegetation and roots. Empty containers and product should not be burnt.

Safety Directions

Attacks eyes and skin. Avoid contact with eyes and skin. Do not inhale spray mist. Repeated exposure may cause allergic disorders. Sensitive workers should wear protective clothing. When preparing spray and using prepared spray wear cotton overalls buttoned to the neck and wrist, washable hat, elbow-length PVC gloves and goggles and disposable mist mask. If clothing becomes contaminated with product or wet with spray remove clothing immediately. If product on skin immediately wash area with soap and water. If product in eyes, wash out immediately with water. After use and before eating, drinking or smoking wash hands, arms and face thoroughly with soap and water. After each days use, wash gloves, goggles and contaminated clothing.

First Aid

If poisoning occurs contact a doctor or Poison Information Centre (13 11 26)

If swallowed, do NOT induce vomiting. Give a glass of water.

Material Safety Data Sheet

For further information refer to Material Safety Data Sheet (MSDS).

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