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POISON

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



Chlorothalonil 720 FUNGICIDE

ACTIVE CONSTITUENT: 720 g/L CHLOROTHALONIL

GROUP **M5** FUNGICIDE

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.

IMPORTANT: Read this leaflet before using this product

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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 if AgMerch Chlorothalonil 720 Fungicide is to be used after shuck fall.

DO NOT tank mix AgMerch Chlorothalonil 720 Fungicide with EC formulations when spraying after shuck fall.

DO NOT exceed 3.2 L of AgMerch Chlorothalonil 720 Fungicide per hectare of crop.

1. TREE AND VINE CROPS

Rate			
This table shows rates for dilute spraying. For concentrate spraying refer to the Mixing/Application Section.			
Situation and Crop	Disease	State	Rate
Almonds	Shot-hole (<i>Stigmina carpophila</i>), Stone fruit rust (<i>Tranzschelia discolor</i>)	SA, Vic, NSW, WA & Tas only	160 mL/100 L
Apricots	Brown rot – Fruit (<i>Monilinia fructicola</i>), Blossom blight (<i>Monilinia laxa</i>)		Apply 2000 L/ha
	Shot-hole (<i>Stigmina carpophila</i>), Stone fruit rust (<i>Tranzschelia discolor</i>), Freckle (<i>Venturia carpophila</i>)		
Cherries	Brown rot – Fruit (<i>Monilinia fructicola</i>), Blossom blight (<i>Monilinia laxa</i>)	Qld, SA, Vic, NSW, WA & Tas only	
	Shot-hole (<i>Stigmina carpophila</i>), Stone fruit rust (<i>Tranzschelia discolor</i>)	All States	
	Transit rot (<i>Rhizopus stolonifer</i>)	All States	
Nectarines	Shot-hole (<i>Stigmina carpophila</i>)	All States except Qld	160 mL/100 L Apply 2000 L/ha
	Brown rot – Fruit (<i>Monilinia fructicola</i>), Blossom blight (<i>Monilinia laxa</i>)		
Peaches	Brown rot - Fruit (<i>Monilinia fructicola</i>), Blossom blight (<i>Monilinia laxa</i>)	All States	160 mL/100 L Apply 2000 L/ha

Critical Comments	
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.	
WHP (days)	Critical Comments
-	Apply at bud-swell, bud-burst, pink bud, shuck fall, cap fall. Apply every 10- 14 days. Apply 1-week pre-harvest.
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. Apply at bud-swell, bud-burst, pink bud, shuck fall, cap fall, then every 10-14 days.
	Apply at bud-swell, bud burst, pink bud, early blossom, and full bloom. Apply 3 weeks pre-harvest and 1 week pre-harvest. Apply at bud-swell, bud burst, pink bud, shuck fall, cap fall, then every 10-14 days. Apply 1-week pre-harvest.
7	Apply at bud-swell, pink bud, shuck fall and then repeat each 14 days if weather conditions favour disease. Apply no later than 35 days pre-harvest as unacceptable fruit skin damage may occur. See also Additional Restraints for stone fruits. Apply at bud-swell, bud burst, pink bud, early blossom and full bloom. Apply no later than 35 days pre-harvest as unacceptable fruit skin damage may occur. See also Additional Restraints for stone fruits.
	Apply at bud-swell, pink bud, early blossom and full bloom. Apply no later than 35 days pre-harvest as unacceptable fruit skin damage may occur. See also Additional Restraints for stone fruits.

1. TREE AND VINE CROPS (cont)

Rate			
This table shows rates for dilute spraying. For concentrate spraying refer to the Mixing/Application Section.			
Situation and Crop	Disease	State	Rate
Peaches (cont)	Shot-hole (<i>Stigmia carpophila</i>), Stone fruit rust (<i>Tranzschelia discolor</i>)	All States	160 mL/100 L Apply 2000 L/ha
	Leaf curl (<i>Taphrina deformans</i>)		160 mL/100 L Apply 2000 L/ha
Grapes Note: russetting of some table grape varieties may occur	Downy mildew (<i>Plasmopara viticola</i>), Bunch rot (<i>Botrytis cinerea</i>)	All States	160 - 210 mL/ 100 L
	Black Spot (Anthracnose) (<i>Elsinoe ampelina</i>)		210 mL/100 L
Plums	Brown rot – Fruit (<i>Monilinia fructicola</i>), Blossom blight (<i>Monilinia laxa</i>) (NOT WA)	Qld, SA, Vic, NSW, WA & Tas only	160 mL/100 L
	Stone fruit rust (<i>Tranzschelia discolor</i>), Shot-hole (<i>Stigmia carpophila</i>)	All States	Apply 2000 L/ha

Critical Comments	
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.	
WHP (days)	Critical Comments
7	Apply at bud-swell and continue at 7-14 day intervals. Apply no later than 35 days pre-harvest as unacceptable fruit skin damage may occur. See also Additional Restraints for stone fruits. Apply at bud-swell and continue at 7-14 day intervals. In QLD spray only at bud-swell. Apply no later than 35 days pre-harvest as unacceptable fruit skin damage may occur. See also Additional Restraints for stone fruits.
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. If Black Spot has occurred in the vineyard in any of the last three years, apply at budburst and 14 days later when shoots are 10-15 cm long. If wet/humid conditions persist spray again when shoots are 20-30 cm 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, make the first application as soon as conditions favour the development 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.
1	Apply at bud-swell, bud-burst, early blossom, pink bud and full bloom. Apply at bud-swell, bud burst, shuck fall and cap fall.

2. LEGUMES

Situation and Crop	Disease	State	Rate
Beans – Broad (Faba)	Chocolate spot (<i>Botrytis fabae</i>), Rust (<i>Uromyces viciae-fabae</i>)	All States	1.4 - 2.3 L/ha
Peanuts	Early leaf spot (<i>Cercospora arachidicola</i>), Late leaf spot (<i>Cercosporidium</i> only <i>personatum</i>), Peppery leaf spot (<i>Leptosphaerulina trifolii</i>), Peanut rust (<i>Puccinia arachidis</i>), Net blotch (<i>Didymosphaeria arachidicola</i>)	Qld, NSW, WA & NT only	1.1 – 1.8 L/ha
Peas	Downy mildew (<i>Peronospora viciae</i>)	Qld, WA & Tas only	1.1 – 1.8 L/ha

3. VEGETABLES AND FRUIT

Situation and Crop	Disease	State	Rate
Bananas Do not apply to bananas within 14 days of applying an oil based spray or crop damage will occur	Leaf Spot (<i>Mycosphaerella musicola</i>)	Qld, NSW, WA & NT only	1.8 L/ha
		WA only	1.5 L/ha
	Leaf speckle (<i>Mycosphaerella musae</i>)	Qld, NSW, WA & NT only	3.0 L/ha
Broccoli, Brussels sprouts, Cabbage, Cauliflowers	Ring Spot (<i>Mycosphaerella brassicicola</i>)	All States	1.8 – 3.5 L/ha
Artichoke Globe	Grey Mould (<i>Botrytis cinerea</i>)	All States	1.8 – 2.3 L/ha
Capsicums	Grey Mould (<i>Botrytis cinerea</i>)	All States	1.8 – 2.3 L/ha
Peppers	Anthraxnose (<i>Colletotrichum acutatum</i>)		
Carrots	Leaf Blight (<i>Alternaria dauci</i>)	All States	1.8 L/ha
Celery	Septoria leaf spot (<i>Septoria apicola</i>)	All States	1.8 L/ha
	Cercospora early blight (<i>Cercospora apii</i>)	NSW & WA only	1.2 L/ha

WHP (days)	Critical Comments
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.
-	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 application 4- 6 weeks after planting and repeat 7-14 day intervals depending on conditions.
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.

WHP (days)	Critical Comments
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 21 days from end of 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. Spray schedule same as for control of leaf spot. This product will not eradicate infection already present but will prevent the spread of disease.
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.
1	Apply at 7 – 10 day intervals as required. Use the higher rate if disease pressure is high.
1	Apply at 7 – 10 day intervals as required. Use the higher rate if disease pressure is high.
7	Commence application as soon as symptoms favour the development of the disease and then spray every 7-14 days.
1	Apply every 7-14 days. Apply also to seedbeds.
1	Apply every 10-14 days.

Situation and Crop	Disease	State	Rate
Cucurbits (including Cantaloupe, Cucumber, Honeydew, Muskmelon, Pumpkin, Squash, Rockmelon, Watermelon, Zucchini	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>)	All States	1.6 - 2.5 L/ha
	Belly rot (<i>Rhizoctonia solani</i>)		
	Grey mould (<i>Botrytis cinerea</i>)		1.8 - 2.3 L/ha
Leeks	Purple blotch (<i>Alternaria porri</i>)		1.8 - 2.3 L/ha
Shallots			
Okra	Leaf disease/spot	Qld & WA only	1.8 - 2.3 L/ha
Onions (excluding spring onions)	Downy mildew (<i>Peronospora destructor</i>)	All States	2.3 L/ha
Potato	Early blight or Target spot (<i>Alternaria solani</i>), Late blight or Irish blight (<i>Phytophthora infestans</i>)	All States	1.1- 1.8 L/ha
Rhubarb	Ascochyta leaf spot (<i>Ascochyta rhei</i>)	All States	140 mL/100 L Apply 2000 L/ha
Radish	Grey mould (<i>Botrytis cinerea</i>)	All States	1.8 - 2.3 L/ha
Sweet Corn	Turcicum leaf blight (<i>Exserohilum turcicum</i>)		
Tomato	Early blight or Target spot (<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>)		
Water Cress	Cercospora leaf spot	Qld & WA only	

4. MISCELLANEOUS

Situation and Crop	Disease	State	Rate
Ornamentals Chrysanthemums Geraniums, Iris & other ornamentals	Botrytis, Grey mould, Rust diseases, Septoria and Alternaria leaf spot diseases	All States	100 mL/100 L
Tobacco	Tobacco leaf spot (<i>Ascochyta arida</i>)	Qld and WA only	220 mL/100 L

WHP (days)	Critical Comments
1	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, AgMerch Chlorothalonil 720 Fungicide will suppress powdery mildew Suppression of belly rot will be obtained where fruit form on soil when sprayed using the above foliar spray programme.
	Apply at 7-10 day intervals as required. Use the higher rate if disease pressure is high. Apply at first appearance of disease. Repeat at 7-10 day intervals, particularly during wet weather.
	Apply at first appearance of disease. Repeat at 7-10 day intervals, particularly during wet weather.
14	Apply at first sign of disease on the leaves or if weather conditions indicate likely incidence of disease. Repeat at 14- day intervals.
-	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.
7	Apply every 10-14 days.
1	Apply every 7-10 day intervals as required. Use the higher rate if disease pressure is high. Apply at first appearance of disease. Repeat at 7-10 day intervals. 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.
	Apply every 7-10 day intervals as required. Use the higher rate if disease pressure is high.

WHP (days)	Critical Comments
-	Apply at 7-14 day intervals. Use 7-day interval under severe conditions. Avoid application to blooms in Azalea, Hydrangea and Petunia.
-	Apply every 7 days in seedbed application only.

Situation and Crop	Disease	State	Rate
Turf and Lawns, Bowling greens, Golf courses	Dollar Spot (<i>Sclerotinia homoeocarpa</i>)	NSW, SA, Qld, WA, Vic, ACT only	130-200mL/ 100m ² in 20-60 L of water
	Brown Patch (<i>Rhizoctonia</i> sp.)	All States	130-200mL/ 100m ² in 20-60 L of water
	Grey Leaf Spot (<i>Stemphylium solani</i>)	NSW, and WA, only	24 L/ha

WHP (days)	Critical Comments
-	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.
	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.
	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

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

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

Onions, wine grapes: **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

AgMerch Chlorothalonil 720 Fungicide is a protectant fungicide for the 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 or more litres per hectare
- **High Volume** - 500 or more litres per hectare
- **Aerial Application** - 20 litres or more per hectare
- **Mister** - 75 - 255 litres per hectare

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 M5 FUNGICIDE

AgMerch Chlorothalonil 720 Fungicide is a member of the multi-site activity group of fungicides. For fungicide resistance management the product is a Group M5 fungicide. Some naturally occurring individual fungi resistant to the product and other Group M5 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 M5 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, AgMerch Pty Ltd accepts no liability for any losses that may result from the failure of this product 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. Store in a locked room or place away from children, animals, food, feedstuffs, seeds and fertilisers.

Triple-rinse containers 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 packaging to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 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.

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 day's use, wash gloves, goggles and contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre (Tel: 13 11 26). If swallowed, do NOT induce vomiting. Give a glass of water.

SAFETY DATA SHEET

Additional information is listed in the Safety Data Sheet, which can be obtained from the supplier.

CONDITIONS OF SALE

The use of AgMerch Chlorothalonil 720 Fungicide being beyond the control of the manufacturer, no warranty expressed or implied is given by AgMerch 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 AgMerch Pty Ltd accepts with no responsibility for any consequences whatsoever resulting from the use of this product.