

POISON

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

Cheminova

Chlorothalonil 720

Fungicide

ACTIVE CONSTITUENT: 720 g/L CHLOROTHALONIL

GROUP	M5	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.

CHEMINOVA AUSTRALIA PTY LTD

ABN 59 472 616 773

ACN 110 199 169

12 JULIUS AVE

NORTH RYDE NSW 2113

PH: 1800 624 597

www.cheminova.com.au

CONTENTS: 1-1000 L

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 Cheminova Chlorothalonil 720 Fungicide is to be used after shuck fall.

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

DO NOT exceed 3.2 L of Cheminova 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.					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.
SITUATION & CROP	DISEASE	STATE	RATE	WHP, days	
Almonds	Shot-hole (<i>Stigmia carpophila</i>), Stone Fruit Rust (<i>Tranzschelia discolor</i>)	NSW, ACT, Vic, Tas, SA, WA only	160 mL/100 L Apply 2000 L/ha	–	Apply at bud-swell, bud-burst, pink bud, 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.
	Shot-hole (<i>Stigmia carpophila</i>), Stone Fruit Rust (<i>Tranzschelia discolor</i>), Freckle (<i>Venturia carpophila</i>)				Spray applications later than 35 days prior to harvest may result in unacceptable fruit skin damage. See also Additional Restraints for stone fruit.
Cherries	Brown Rot – Fruit (<i>Monilinia fructicola</i>), Blossom Blight (<i>Monilinia laxa</i>)	All States except NT			Apply at bud-swell, bud burst, pink bud, early blossom, and full bloom. Apply 3 weeks pre-harvest and 1 week pre-harvest.
	Shot-hole (<i>Stigmia carpophila</i>), Stone Fruit Rust (<i>Tranzschelia discolor</i>)	All States			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.
Nectarines	Shot-hole (<i>Stigmia carpophila</i>)	All States except Qld			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.
	Brown Rot – Fruit (<i>Monilinia fructicola</i>), Blossom Blight (<i>Monilinia laxa</i>)				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.
Peaches	Brown Rot – Fruit (<i>Monilinia fructicola</i>), Blossom Blight (<i>Monilinia laxa</i>)	All States			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.
	Shot-hole (<i>Stigmia carpophila</i>), Stone Fruit Rust (<i>Tranzschelia discolor</i>)				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.
	Leaf Curl (<i>Taphrina deformans</i>)				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.
Grapes Note: Russetting of some table grape varieties may occur	Downy Mildew (<i>Plasmopara viticola</i>), Bunch Rot (<i>Botrytis cinerea</i>)		160-210 mL/100 L	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>)		210 mL/100 L		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.

RATE: This table shows rates for dilute spraying. For concentrate spraying refer to the Mixing/Application Section.					WHP, days	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.
SITUATION & CROP	DISEASE	STATE	RATE			
Plums	Brown Rot – Fruit (<i>Monilinia fructicola</i>), Blossom Blight (<i>Monilinia laxa</i>) (NOT WA)	All states except NT	160 mL/100 L Apply 2000 L/ha	1	Apply at bud-swell, bud-burst, early blossom, pink bud and full bloom.	
	Shot-hole (<i>Stigmia carpophila</i>), Stone Fruit Rust (<i>Tranzschelia discolor</i>)	All States			Apply at bud-swell, bud burst, shuck fall and cap fall.	

2. LEGUMES

SITUATION & CROP	DISEASE	STATE	RATE	WHP (days)	CRITICAL COMMENTS
Beans – Broad (Faba)	Chocolate Spot (<i>Botrytis fabae</i>), Rust (<i>Uromyces viciae-fabae</i>)	All States	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	Early Leaf Spot (<i>Cercospora arachidicola</i>), Late Leaf Spot (<i>Cercosporidium ersonatum</i>), Peppery Leaf Spot (<i>Leptosphaerulina trifolii</i>), Peanut Rust (<i>Puccinia arachidis</i>), Net Blotch (<i>Didymosphaeria arachidicola</i>)	Qld, NSW, ACT, WA, NT only	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 application 4- 6 weeks after planting and repeat 7-14 day intervals depending on conditions.
Peas	Downy Mildew (<i>Peronospora viciae</i>)	Qld, Tas, WA only	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 AND FRUIT

SITUATION & CROP	DISEASE	STATE	RATE	WHP (days)	CRITICAL COMMENTS
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, ACT, WA, NT only	1.8 L/ha	1	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. South Qld: Spray every 21 days from start of December to end of April. NSW: Spray every 21 days from end of November to end of May. WA: Spray every 10-14 days from November to end of May and extend to 14-21 days from May to November.
	Leaf Speckle (<i>Mycosphaerella musae</i>)	Qld, NSW, ACT, WA, NT only	3.0 L/ha		
Artichoke Globe	Grey Mould (<i>Botrytis cinerea</i>)	All States	1.8-2.3 L/ha	1	Apply at 7-10 day intervals as required. Use the higher rate if disease pressure is high.
Broccoli, Brussels Sprouts, Cabbages, Cauliflowers	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	Grey Mould (<i>Botrytis cinerea</i>), Anthracnose (<i>Colletotrichum acutatum</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	Leaf Blight (<i>Alternaria dauci</i>)		1.8 L/ha	7	Commence application as soon as symptoms favour the development of the disease and then spray every 7-14 days.
Celery	Septoria Leaf Spot (<i>Septoria apiicola</i>)				1
	Cercospora Early Blight (<i>Cercospora apii</i>)	NSW, ACT, WA only	1.2 L/ha		Apply every 10-14 days.

SITUATION & CROP	DISEASE	STATE	RATE	WHP (days)	CRITICAL COMMENTS
Cucurbits (including Cantaloupe, Cucurbit, 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	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, Cheminova Chlorothalonil 720 Fungicide 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 programme.
Endive	Grey Mould (<i>Botrytis cinerea</i>)	Qld, WA only	1.8-2.3 L/ha		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	Leaf disease/spot				Apply at first appearance of disease. Repeat at 7-10 day intervals.
Onions (excluding spring onions)	Downy Mildew (<i>Peronospora destructor</i>)	All States	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	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.
Rhubarb	Ascochyta Leaf Spot (<i>Ascochyta rhei</i>)	All States	140 mL/ 100 L Apply 2000 L/ha	7	Apply every 10-14 days.
Radish	Grey Mould (<i>Botrytis cinerea</i>)	All States	1.8-2.3 L/ha	1	Apply every 7-10 day intervals as required. Use the higher rate if disease pressure is high.
Sweet Corn	Turcicum Leaf Blight (<i>Exserohilum turcicum</i>)				Apply at first appearance of disease. Repeat at 7-10 day intervals.
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>)				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.
Water Cress	Cercospora Leaf Spot	Qld, WA only			Apply every 7-10 day intervals as required. Use the higher rate if disease pressure is high.

4. MISCELLANEOUS

SITUATION & CROP	DISEASE	STATE	RATE	CRITICAL COMMENTS
Ornamentals including Chrysanthemums, Geraniums, Iris	Botrytis, Grey Mould, Rust diseases, Septoria and Alternaria Leaf Spot Diseases	All States	100 mL/ 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	Tobacco Leaf Spot <i>Ascochyta arida</i>	Qld, WA only	220 mL/ 100 L	Apply every 7 days in seedbed application only.
Turf and Lawns, Bowling greens, Golf greens	Dollar Spot (<i>Sclerotinia homeocarpa</i>)	Qld, NSW, ACT, Vic, SA, WA only	130-200 mL/ 100 m ² in 20-60 L 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.
	Brown Patch (<i>Rhizoctonia</i> spp.)	All States		
	Grey Leaf Spot <i>Stemphylium solani</i>	NSW, ACT, WA only	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:

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

Cheminova Chlorothalonil 720 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 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
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For fungicide resistance management Cheminova Chlorothalonil 720 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, Cheminova Australia 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.

Leaflet

The method of disposal of the container depends on the container type. Read the 'Storage and Disposal' instructions on the label that is attached to the container.

Non-returnable containers only

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 deliver empty packaging for appropriate disposal 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.

100, 110L

Do not remove or tamper with the dry valves or security seal. Do not contaminate the drum with water or any other foreign matter. After each use of the product ensure that the dry valve coupler, delivery system and hoses are disconnected, triple rinsed with clean water and drained accordingly. When the drum is empty remove the dry valve coupler and return to the point of purchase.

1000L

Store in the closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight. Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage

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 or fume face mask covering mouth and nose. 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. Phone Australia 131126. If swallowed, do NOT induce vomiting. Give a glass of water.

SAFETY DATA SHEET

Additional information is listed in the Safety Data Sheet available from www.cheminova.com.au.

WARNING

This product must be used, handled and stored strictly as directed in accordance with this label, packaging and other reference material ("Directions"). To the extent permitted by law Cheminova Australia Pty Ltd and its related companies will have no liability for any injury, loss or damage arising from a failure to follow the Directions.

APVMA Approval No: 60939/61843

Batch No:

Date of Manufacture:

131112-T

Drummuster logo (relevant pack sizes)

**FOR 24 HOUR SPECIALIST ADVICE
IN EMERGENCY ONLY
PHONE 1800 033 111**