

Company Name:CHEMTURA AUSTRALIA PTY LTDProduct Name:ARYSTA LIFESCIENCE CHLOROTHALONIL FUNGICIDE

APVMA Approval No: 63635/103398

Label Name:	Arysta LifeScience CHLOROTHALONIL FUNGICIDE	
Signal Headings:	POISON	
	KEEP OUT OF REACH OF CHILDREN	
	READ SAFETY DIRECTIONS BEFORE OPENING OR USING	

Constituent Statements:	720 g/L CHLOROTHALONIL

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Net Contents:	10L 1L
	20L 500mL

Restraints:	Restraints: DO NOT mix spraying oils or wetting agents with CHLOROTHALONIL. For all stone fruit except cherries, the following additional restraints apply: DO NOT use oils after budswell and during the season if CHLOROTHALONIL is to be used after shuck-fall. DO NOT tank mix CHLOROTHALONIL with EC formulations when spraying after shuck- fall. DO NOT exceed 3.2 L of CHLOROTHALONIL per hectare of crop.
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Directions for Use:	This section contains file attachment.	
	File Name: Arysta LifeScience Chlorothalonil_DIRECTIONS FOR USE.docx File Size: 34531 bytes	

Other Limitations:	

Withholidng Periods:	 WITHHOLDING PERIODS Artichoke, Bananas, Capsicum, Celery, Cucurbits, Endive, Leek, Okra, Peppers, Plums, Radish, Shallot, Sweetcorn, 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 Detatage: NOT BEOLUBED WHEN USED AS DIRECTED
	Potatoes: NOT REQUIRED WHEN USED AS DIRECTED

Trade Advice:	
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General	This section contains file attachment.	
Instructions:		Arysta LifeScience Chlorothalonil_GENERAL INSTRUCTIONS.docx 16957 bytes

Resistance Warning:	Fungicide Resistance Warning GROUP M5 FUNGICIDE
	For fungicide resistance management CHLOROTHALONIL Fungicide is a Group M5 fungicide. Some naturally occurring individual fungi resistant to CHLOROTHALONIL Fungicide and other Group M5 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. The resistant fungi will not be controlled by CHLOROTHALONIL Fungicide and 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, Arysta LifeScience Australia Pty Ltd accepts no liability for any losses that may result from the failure of CHLOROTHALONIL Fungicide to control resistant fungi.

Precautions:

Protections:	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 the chemical or used container.

Storage and Disposal:	STORAGE AND DISPOSAL Store in the closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight.
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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 use protective clothing when preparing and using the prepared spray. Wear cotton overalls buttoned to the neck and wrist, a washable hat, elbow-length PVC gloves, goggles and disposable 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 it 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.
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First Aid Instructions:	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.
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First Aid Warnings:

DIRECTIONS FOR USE

Crop/Situation	Disease	State	Rate	WHP (days)	Critical Comments
BANANAS		1	1	(20132)	
Bananas DO NOT apply to bananas within 14 days of applying an oil based spray or crop damage will occur	Leaf Spot (Mycosphaerella musicola)	Qld, NSW, WA, NT only WA only	1.8 L/ha 1.5 L/ha		 North Qld: Spray every 14 days late January to end of March. Extend to 21 days after March and then 28 to 35 days in the drier months of the year. South Qld: Spray every 21 days from start of December to end of April. WA: Spray every 10 to 14 days from November to end of May and extend to 14 to 21 days from May to November. NSW: Spray every 21 days from end of November to end of May.
	Leaf Speckle (Mycosphaerella musae)	Qld, NSW, WA, NT only	3 L/ha		Spray schedule same as for control of Leaf Spot. CHLOROTHALONIL will not eradicate infection already present but will prevent the spread of disease.
GRAPES		-		-	
Grapes Note russeting of some table grape varieties may occur	Downy Mildew (Plasmopara viticola), Bunch Rot (Botrytis cinerea) Black Spot (Anthracnose) (Elsinoe ampelina)	All States	1.8 to 2.3 L/ha 210 mL/ 100 L	Dessert 7 Wine 14	Make the first application as soon as conditions favour the development of the disease. Apply at 7 to 14 day intervals particularly during wet weather and periods of rapid growth. Bunch Rot: apply at early full bloom, 2 weeks later, at veraisson and 2 weeks prior to harvest. Table Grapes: russeting of some varieties may occur. Use only up to capfall in these varieties. 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 to 15 cm long. If wet/humid conditions persist, spray again when shoots are 20 to 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. 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 to 14 day intervals if wet/humid conditions persist. Applications up to capfall will not cause russeting in table grape and dried fruit varieties.

Crop/Situation	Disease	State	Rate	WHP (days)	Critical Comments	
LEGUMES						
Beans Broad (Faba)	Chocolate Spot (Botrytis fabae), Rust (Uromyces viciae-fabae)	All States	1.4 to 2.3 L/ha	7	Make the first applica conditions favour the disease. Repeat at 7 to Use the higher rate if disease pressure is hig	development of the 14 day intervals. the crop is dense and
Peanuts	Early Leaf Spot (Cercospora arachidicola), Late Leaf Spot (Cercosporidium personatum), Peppery Leaf Spot (Leptosphaerulina trifolii), Peanut Rust (Puccinia arachidis), Net Blotch (Didymosphaeria arachidicola)	Qld, NSW, WA, NT only	1.1 to 1.8 L/ha	-	Use higher rate for Peanut Rust. South Burnett, NSW, WA: commence application as soon as conditions favour the development of the disease and repeat as necessary to maintain control. Atherton Tableland: commence application 6 weeks after planting and repeat every 2 weeks.	
Peas	Downy Mildew (Peronospora viciae)	Qld, Tas, WA only		7	Make the first application as soon as conditions favour the development of the disease. Repeat at 7 to 14 day intervals. Use the higher rate if the crop is dense and disease pressure is high.	
ORNAMENTALS						
Ornamentals Chrysanthemums. Geraniums, Iris, other ornamentals	Botrytis, Grey Mould, Rust diseases, Septoria, Alternaria Leaf Spot diseases	All States	100 mL / 100 L	-	Apply at 7 to 14 day i days under severe cor application to blooms and Petunia.	ntervals. Use every 7 Iditions. Avoid in Azalea, Hydrangea
STONEFRUIT AND						
Almonds	Shot-hole (Stigmina carpophila) Stone Fruit Rust (Tranzschelia discolor)	NSW, Vic, Tas, SA, WA only	160 mL / 100 L Apply 2,000 L/ha	-	Apply at budswell, bu shuck-fall, capfall. Ap days. Apply 1 week p	pply every 10 to 14
Apricots	Brown Rot - Fruit (Monilinia fructicola), Blossom Blight (Monilinia laxa)) Stone Fruit Rust (Tranzchelia discolor), Shot-hole (Stigmina carpophila), Freckle (Venturia carpophila			7	Apply at budswell, budburst, pink bud, full bloom. Apply at budswell, bud burst, pink bud, shuck-fall, capfall, then every 10 to 14 days.	Application 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 (Monilinia fructicola), Blossom Blight (Monilinia laxa) Shot-hole (Stigmina carpophila), Stone Fruit Rust (Tranzschelia discolor) Transit Rot (Rhizopus stolonifer)	All States			Apply at budswell, bu early blossom, full blo pre-harvest and 1 wee Apply at budswell, bu shuck-fall, capfall, the days. Apply 1 week pre-har	oom. Apply 3 weeks k pre-harvest. dburst, pink bud, en every 10 to 14 re-harvest.
Nectarines	Shot-hole (Stigmina carpophila)	NSW, Vic, Tas, SA, WA only			Apply at budswell, pink bud, shuck-fall and then repeat every 14 days if weather conditions favour disease.	Application later than 35 days prior to harvest may result in unacceptable fruit skin damage. See

Crop/Situation	Disease	State	Rate	WHP	Critical Comments	
				(days)		
	Brown Rot - Fruit (Monilinia fructicola), Blossom Blight (Monilinia laxa)				Apply at budswell, bud burst, pink bud, early blossom and full bloom.	also additional Restraints for stone fruit.

Crop/Situation	Disease	State	Rate	WHP (days)	Critical Comments	
Peaches	Brown Rot - Fruit (Monilinia fructicola), Blossom Blight (Monilinia laxa) Shot-hole (Stigmina carpophila), Stone Fruit Rust (Tranzschelia discolor) Leaf Curl (Taphrina deformans)	All States	160 mL/ 100 L Apply 2,000 L/ha	7	Apply at budswell, pink bud, early blossom and full bloom. Apply at budswell and continue at 7 to 14 day intervals. Apply at budswell and continue at 7 to 14 days intervals.	Application later than 35 days prior to harvest may result in unacceptable fruit skin damage. See also additional Restraints for stone fruit.
Plums	Brown Rot - Fruit (Monilina fructicola), Blossom Blight (Monilinia laxa) Stone Fruit Rust (Tranzschelia discolor), Shot-hole (Stigmina			1	Qld: spray only at budswell. Apply at budswell, bud burst, early blossom, pink bud and full bloom. Apply at budswell, budburst, pink bud, shuck-fall and capfall.	
ТОВАССО	carpophila)					
Tobacco	Tobacco Leaf Spot (Ascochyta arida)	Qld, WA only	220 mL / 100 L	-	Apply every 7 days in only.	seedbed application
VEGETABLES		•			•	
Artichokes Globe	Grey Mould (Botrytis cinerea)	All States	1.8 to 2.3 L/ha	1	Apply at 7 to 10 day i Use the higher rate if high.	1
Broccoli, Brussels Sprouts	Ring Spot (Mycosphaerella brassicicola)		1.8 to 3.5 L/ha	7	Make the first application as soon as conditions favour the development of the disease. Repeat at 14 day intervals. Use higher rate if disease pressure is high.	
Capsicums Peppers	Grey Mould (Botrytis cinerea), Anthracnose (Colletotrichum acutatum)		1.8 to 2.3 L/ha	1	Apply at 7 to 10 day i Use the higher rate if high.	ntervals as required.
Cabbages, Cauliflowers	Ring Spot (Mycosphaerella brassicicola)		1.8 to 3.5 L/ha	7	Make the first applica conditions favour the disease. Repeat at 14 higher rate if disease	development of the day intervals. Use pressure is high.
Carrots	Leaf Blight (Alternaria dauci)		1.8 L/ha		Commence application conditions favour the disease and then apply	development of the y every 7 to 14 days.
Celery	Septoria Leaf Spot (Septoria apiicola)	NOW WA	1.2 L/ha	1	Apply every 7 to 14 d seedbeds.	·
	Cercospora Early Bight (Cercospora apii)	NSW, WA only			Apply every 10 to 14	
Cucurbits Including Cantaloupe, Cucumbers, Honeydew, Muskmelon, Pumpkin, Squash, Rockmelon, Watermelon, Zucchini	Downy Mildew (Pseudoperonospora cubensis), Gummy Stem Blight (Didymella bryoniae), Anthracnose (Colletotrichum orbiculare), Leaf Blight (Alternaria cucumerina), Target Leaf Spot (Cercospora citrullina)	All States	1.6 to 2.5 L/ha		Apply on a 7 to 14 da rates towards the high recommended range a when disease pressure spray program early, a before vining or flowe these rates, CHLOROTHALONII Powdery Mildew.	er end of the and at 7 day intervals e is high. Commence at first true leaf and ering. When used at L will suppress
	Belly Rot (Rhizoctonia solani)]			If applying CHLORO above foliar	THALONIL for the

Crop/Situation	Disease	State	Rate	WHP	Critical Comments
				(days)	
Endive	Grey Mould		1.8 to 2.3		diseases, useful suppression of Belly Rot will be obtained where fruit form on soil covered by earlier recent CHLOROTHALONIL spraying. Apply at 7 to 10 day intervals as required.
	(Botrytis cinerea)		L/ha		Use the higher rate if disease pressure is high.
Leeks Shallots	Purple Blotch (Alternaria porri)				Make the first application as soon as conditions favour the development of the disease. Repeat at 7 to 10 day intervals, particularly during wet weather.

Crop/Situation	Disease	State	Rate	WHP (days)	Critical Comments
Okra	Leaf Disease/Spot	Qld, WA only	1.8 to 2.3 L/ha	1	Make the first application as soon as conditions favour the development of the disease. Repeat at 7 to 10 day intervals.
Onions excluding Spring Onions	Downy Mildew (Peronospora destructor)	All States	2.3 L/ha	14	Make the first application as soon as conditions favour the development of the disease. Repeat at 14 day intervals.
Potato potato (cont'd)	Early Blight or Target spot (Alternaria solani), Late Blight or Irish Blight (Phytophthora infestans)		1.1 to 1.8 L/ha	-	Commence applications at flowering time or earlier if weather conditions are favourable for disease infection. Spray every 7 to 14 days until within 14 days of desiccation or harvest.
Rhubarb	Ascochyta Leaf Spot (Ascochyta rhei)		140 mL / 100 L Apply 2,000 L/ha	7	Apply every 10 to 14 days.
Radish	Grey Mould (Botrytis cinerea)		1.8 to 2.3 L/ha	1	Apply at 7 to 10 day intervals as required. Use the higher rate if disease pressure is high.
Sweetcorn	Turcicum Leaf Blight (<i>Exserohilum</i> <i>turcicum</i>)				Make the first application as soon as conditions favour the development of the disease. Repeat at 7 to 10 day intervals.
Tomato	Early Blight or Target Spot (Alternaria solani), Leaf Mould (Fulvia fulva), Grey Leaf Spot (Stemphylium solani), Botrytis Rot or Grey Mould (Botrytis cinerea)				Make the first application as soon as conditions favour the development of the disease. Spray at 7 to 14 day intervals. Continue into the picking season to obtain best results against Leaf Mould and Botrytis Rot.
Watercress	Cercospora leaf Spot	Qld, WA only			Apply at 7 to 10 day intervals as required. Use the higher rate if disease pressure is high.

NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION

GENERAL INSTRUCTIONS

CHLOROTHALONIL is a protectant fungicide only. CHLOROTHALONIL must be applied before diseases occur/become established to be highly effective. Use disease warning services or past history to determine timing of first spray. If diseases are already present then an eradicant product should be used first and mixed with CHLOROTHALONIL.

Mixing

Invert container several times to ensure uniform mixture. Mix the required quantity of product with water in the spray tank with the agitator operating.

Application

Apply by high volume, low volume or through mister or aircraft spray equipment. Thorough uniform coverage is essential for effective disease control.

Suggested spray volumes per hectare:

High volume: 500 litres or more. Mister: 75 to 255 litres.

Low volume: 200 litres or more. Aerial application: 20 litres or more.

Compatibility

CHLOROTHALONIL is compatible with wettable powder formulations of the most commonly used fungicides, insecticides and miticides. DO NOT combine with oil-based emulsifiable or flowable pesticides, unless prior experience has shown the combination to be physically compatible and non-injurious to your crop. 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 oil spray. Oils should not be sprayed on crops treated with this product for at least 10 days after the last spray. Wetting agents have not improved performance. Under some conditions, certain surfactants may cause plant injury.