

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Farmoz

Chief® Aquaflo

FUNGICIDE

ACTIVE CONSTITUENT: 500 g/L IPRADIONE
(A dicarboximide fungicide)

GROUP **2** FUNGICIDE

For the control of certain fungal diseases on various crops and situations as specified in the Directions for Use table.

www.farmoz.com.au

DIRECTIONS FOR USE: 1. TREE AND VINE CROPS

RATE					CRITICAL COMMENTS
In the following table, all rates are given for dilute spraying. For concentrate spraying, refer to Application section.					
CROP	DISEASE	STATE	RATE	WHP	
Almonds	Blossom Blight, Brown Rot (<i>Monilinia</i> spp., <i>Sclerotinia</i> spp.)	All States	50 mL/ 100 L water	Nil	Apply first at full bloom and, if conditions are favourable for disease development, up to two subsequent applications can be made; at petal fall and up to four weeks after petal fall.
Boysenberries	Grey Mould (<i>Botrytis cinerea</i>)	All States	100 mL/ 100 L water	1 day	
Grapes				7 days	Good crop hygiene will aid in the control of disease. This use is subject to an Croplife fungicide resistance management strategy: 1. If three or fewer bunch rot sprays are applied in a season use only one spray per season containing CHIEF Aquaflo (or other Group 2 Fungicide). If four or more bunch rot sprays are applied in a season use no more than two sprays containing Group 2 fungicides. 2. Late season fungicide treatments should be applied before Botrytis infection reaches unacceptably high levels in the vineyard. 3. DO NOT apply more than two consecutive sprays from the same fungicide group, including from the end of one season to the next.
Kiwifruit	Botrytis Blight (<i>Botrytis</i> spp.)	NSW, Vic, WA only			
Macadamias	Botrytis Blight (<i>Botrytis</i> spp.)	All States	50 mL/ 100 L water	Nil	Apply as thorough cover spray to flower racemes when they open. A follow up spray may be needed one week later if wet conditions persist during flowering. Remove nuts under trees prior to spraying.

1. TREE AND VINE CROPS – continued

CROP	DISEASE	STATE	RATE	WHP	CRITICAL COMMENTS
Mandarins (non-bearing)	Alternaria Leaf Spot (Brown Spot) (<i>Alternaria alternata</i>)	Qld, NT, WA only	100 mL/ 100 L water	Nil	Apply to non-bearing trees of Murcott variety monthly from first flush in Spring until flushing ceases in the Autumn. Reduce intervals to fortnightly during periods of wet weather.
Passionfruit	Alternata Spot (Brown Spot) (<i>Alternaria</i> spp., <i>Alternaria passiflora</i>)	Qld, NSW, NT, WA only		7 days	This use is subject to an CropLife fungicide resistance management strategy: 1. Maintain a protective cover with protectant fungicide such as mancozeb. 2. Limit the use of CHIEF Aquaflo to strategic periods, i.e. before, during and after extended wet periods. 3. Always tank mix CHIEF Aquaflo with a protectant such as mancozeb. 4. DO NOT apply more than four CHIEF Aquaflo (or other Group 2 fungicide) sprays in a season.
Raspberries	Grey Mould (<i>Botrytis cinerea</i>)	All States		1 day	Spray at 10% blossom and full bloom. For fruit protection, apply at 2 to 3 weeks pre-harvest.
Stone Fruit: Apricots, Cherries, Nectarines, Peaches, Plums	Orchard Spraying Blossom Blight (<i>Monilinia fructicola</i> , <i>Monilinia laxa</i>), Brown Rot (<i>Monilinia fructicola</i> , <i>Monilinia laxa</i>)	Qld, NSW, Vic, Tas, SA, WA only	50 to 75 mL/ 100 L water	Nil	For control of Blossom Blight, spray at 10% blossom, full bloom and petal/shuck fall. For control of subsequent Brown Rot in fruit, spray at 3 weeks and 1 week pre-harvest. Use higher rate under severe conditions of challenge or for single applications of CHIEF Aquaflo in the spray program. This use is subject to an CropLife fungicide resistance management strategy: 1. DO NOT apply more than two consecutive sprays of CHIEF Aquaflo or (other Group 2 Fungicides). 2. A post-harvest treatment should also be counted as an application. 3. The last Blossom Blight spray and the first pre-harvest brown rot spray should be regarded as consecutive applications. 4. The spray program should be considered, and the strategy applied on a whole orchard basis.
Youngberries	Grey Mould (<i>Botrytis cinerea</i>)	All States	100 mL/ 100 L water	1 day	Spray at 10% blossom and full bloom. For fruit protection, apply at 2 to 3 weeks pre-harvest.

2. FRUIT – POST HARVEST DIPPING

CROP	DISEASE	STATE	RATE	WHP	CRITICAL COMMENTS
Pome Fruit: Apples, Pears	Post-harvest Dipping Storage Rots (<i>Penicillium</i> spp.) (<i>Botrytis</i> spp.) (<i>Gloeosporium</i> spp.)	All States	100 mL/ 100 L water	Nil	To minimise the development of post-harvest rots handle fruit carefully to avoid fruit injury and dip promptly after harvest. Remove any infected fruit from the packing house immediately and destroy. When dipping, allow sufficient time to thoroughly wet the fruit. Top up dip with 100 mL CHIEF Aquaflo in 100 L of water. This use is subject to an CropLife fungicide resistance management strategy: 1. For the last pre-harvest spray, use a fungicide with a different mode of action to the fungicide planned for use as a post-harvest treatment. 2. Where alternative fungicide groups are available rotate to use as many different modes of action as possible. 3. DO NOT dispose of unused dip solutions as a spray to crops or orchards. 4. DO NOT dispose of unused dip solutions within or near the crop or orchard area.
Stone Fruit: Apricots, Cherries, Nectarines, Peaches, Plums	Post-harvest Dipping Brown Rot (<i>Monilinia fructicola</i> , <i>Monilinia laxa</i>), *Transit Rot (<i>Rhizopus</i> spp.)	Qld, NSW, Vic, Tas, SA, WA only			To minimise the development of post-harvest rots handle fruit carefully to avoid fruit injury and dip promptly after harvest. Remove any infected fruit from the packing house immediately and destroy. When dipping, allow sufficient time to thoroughly wet the fruit. Top up dip with 200 mL CHIEF Aquaflo in 100 L of water. A non-ionic wetting agent should be added. *Transit Rot is suppressed at this rate. This use is subject to an CropLife fungicide resistance management strategy: 1. For the last pre-harvest spray, use a fungicide with a different mode of action to the fungicide planned for use as a post-harvest treatment. 2. Where alternative fungicide groups are available, rotate to use as many different modes of action as possible. 3. DO NOT dispose of unused dip solutions as a spray to crops or orchards. 4. DO NOT dispose of unused dip solutions within or near the crop or orchard area.

3. BERRIES (SEE TREE AND VINES FOR BOYSENBERRIES, RASBERRIES AND YOUNGBERRIES)

CROP	DISEASE	STATE	RATE	WHP	CRITICAL COMMENTS
Strawberries	Grey Mould (<i>Botrytis cinerea</i>)	All States	1.0 L/ha where spray volume is less than 1000 L/ha or 100 mL/100 L water where spray volume equals or exceeds 1000 L/ha	1 day	This use is subject to an CropLife fungicide resistance management strategy: 1. Apply a program of protectant fungicides during flowering. If conditions favour disease development during this period use CHIEF Aquaflo. 2. DO NOT apply more than two successive sprays of CHIEF Aquaflo (or other Group 2 Fungicide).

4. VEGETABLES

CROP	DISEASE	STATE	RATE	WHP	CRITICAL COMMENTS
Brassica Leafy Vegetables: Bok Choy (Chinese White Cabbage, Chinese Chard), Pak Choy (Chinese White Cabbage, Chinese Chard), Choi Sum (Chinese Flowering Cabbage), Gai Lum, Gai Lan, Kai Lan (All Chinese Broccoli), Kai Choi (Indian Mustard Cabbage), Wong Bok, Pet Sai, Hatsukai (All Chinese Cabbage), Mizuna (Mizuna Greens), Amsoi (Red Mustard), Taishona (Curled Mustard), Komatsuma (Mustard Spinach), Tatsoi (Chinese Flat Cabbage), Gai Choy, Kai Choi, Am Soi (Chinese Mustard, Indian Mustard), Turnip Greens, Mustard Greens, Rutabaga Greens, Mibuna, Kale	Control of Sclerotinia (<i>Sclerotinia sclerotiorum</i>), Grey Mould (<i>Botrytis cinerea</i>), Alternaria Leaf Spot (<i>Alternaria brassicae</i>)	All States	1 L/ha	7 days (H, G)	Apply as two applications at 14 day intervals when conditions favour the disease. Apply using hollow cone or flat fan nozzles to give an even and thorough coverage. Apply in a minimum of 200 L/ha depending on crop size and density.
Celery	Sclerotinia Rot (Pink Rot) (<i>Sclerotinia sclerotiorum</i>)	All States	1.0 L/ha where spray volume is less than 1000 L/ha	1 day	Commence spraying 1 to 2 weeks post-transplanting then every 2 to 3 weeks. Use only 5 sprays.
Lettuce	Sclerotinia Rot (drop) (<i>Sclerotinia sclerotiorum</i> , <i>Sclerotinia minor</i>)	Tas, WA only	OR 100 mL/100 L water where spray volume equals or exceeds 1000 L/ha	7 days	Spray should be directed to the stems at ground level and to the underside of lower leaves. This use is subject to an CropLife fungicide resistance management strategy: 1. Apply CHIEF Aquaflo as a seedling drench soon after emergence. 2. Apply a protectant fungicide as a high volume foliar spray before planting out, then CHIEF Aquaflo immediately after planting. 3. Maintain cover with protectant fungicide sprays at 7-10 day intervals. 4. If weather conditions favour Botrytis infection, tank mix the protectant with CHIEF Aquaflo. 5. DO NOT apply CHIEF Aquaflo (or other Group 2 fungicides) more than 4 times per season, irrespective of the target disease.
	Grey Mould (<i>Botrytis</i> spp.)				

4. VEGETABLES – continued

CROP	DISEASE	STATE	RATE	WHP	CRITICAL COMMENTS
Potatoes	Sclerotinia Rot (<i>Sclerotinia sclerotiorum</i>)	All States	500 mL to 1.0 L/ha where spray volume is less than 1000 L/ha OR 50 to 100 mL/100 L water where spray volume equals or exceeds 1000 L/ha	Nil	Apply 2 sprays, once immediately before and once immediately after hilling-up. For most effective treatment, concentrate the spray at the base of the stems and surrounding soil surface, where the fungus is active. Use the higher rate where disease is severe.
	Target Spot (Early Blight) (<i>Alternaria solani</i>)				Ensure thorough coverage to the whole plant. Treatment is generally not required until after flowering. Use the higher rate where disease is severe. This use is subject to an CropLife fungicide resistance management strategy: 1. Limit use of CHIEF Aquaflo to periods when conditions favour disease development. 2. DO NOT apply more than four CHIEF Aquaflo (or other Group 2 fungicide) sprays in one season. 3. Apply no more than two consecutive sprays of a Group 2 fungicide.
	Hypocotyl Rot (Black Scurf) (<i>Rhizoctonia solani</i>)		400 mL/tonne seed material		CHIEF Aquaflo will protect emerging shoots from Hypocotyl Rot, improving overall germination. CHIEF Aquaflo may also reduce occurrence of Black Scurf on the harvested potatoes. Ensure good coverage of seed material and planting furrow. This can be achieved by applying CHIEF Aquaflo as a fine spray to the seed at the time of planting using spray equipment mounted on the planter, and nozzles located at three points on each planter row to ensure uniform coating of seed. DO NOT plant into waterlogged soils. A minimum water volume of 80 L/tonne seed should be used.
Tomatoes	Sclerotinia Rot (<i>Sclerotinia sclerotiorum</i>)	Qld, NSW, Tas, SA, WA only	1.0 L/ha where spray volume is less than 1000 L/ha OR 100 mL/100 L water where spray volume equals or exceeds 1000 L/ha	7 days	Spray at 14 day intervals from transplanting and throughout period of disease pressure.
	Grey Mould (<i>Botrytis cinerea</i>)	All States			Commence spraying 3 to 4 weeks after transplanting or at the onset of disease. Repeat treatment at 14 day intervals or when conditions favour spread of disease i.e. at trimming or deleafing. This use is subject to an CropLife fungicide resistance management strategy: 1. Alternate or tank mix CHIEF Aquaflo with a protectant such as chlorothalonil. Avoid applying two CHIEF Aquaflo (or other Group 2 fungicide) sprays in succession, unless tank mixed with a protectant. 2. DO NOT apply more than 4 CHIEF Aquaflo (or other Group 2 fungicide) sprays in a season.
	Target Spot (Early Blight) (<i>Alternaria Solani</i>)	Qld, NT, Tas, WA only	Commence spraying 1 week post-planting. Use adequate water to give thorough coverage of plants. Use high volume spray equipment. This use is subject to an CropLife fungicide resistance management strategy: 1. Limit the use of CHIEF Aquaflo to periods when conditions favour disease development. 2. DO NOT apply more than four CHIEF Aquaflo (or other Group 2 fungicide) sprays in one season. Apply no more than two consecutive sprays of a Group 2 fungicide.		

5. FIELD CROPS

CROP	DISEASE	STATE	RATE	WHP	CRITICAL COMMENTS
Lucerne	Lucerne Leaf Spot (<i>Stemphylium botryosum</i>)	Qld, WA only	250 mL to 500 mL/ha where spray volume is less than 1000 L/ha OR 25 to 50 mL per 100 L water where spray volume equals or exceeds 1000 L/ha	7 days (G)	Spray every 10 to 14 days when cool, damp weather favours the disease. Use the higher rate under conditions of high disease pressure.
	Leptosphaerulina Leaf Spot (<i>Leptosphaerulina trifolii</i>)				Apply in at least 300 L water/ha every 10 to 14 days when cool, damp weather favours the disease. Use the higher rate under conditions of high disease pressure.
Peanuts	Sclerotinia Rot (<i>Sclerotinia sclerotiorum</i> , <i>Sclerotinia minor</i>)		1.0 L/ha OR 220 mL/100 L water (spot application)	12 days	Apply when disease first appears. Repeat if necessary. Use a high volume of water to ensure good coverage of foliage and stem at ground level. DO NOT mix with a foliar fungicide due to the different target positions on the plant.
Soybeans	Black Leaf Blight (<i>Arkoala nigra</i>)	NSW, WA only	1.0 L/200 to 400 L water per ha	7 weeks	If disease is present on leaves apply an initial spray at early pod set (pods approximately 5 mm long). An additional spray 14 days later may be required if wet seasonal conditions prevail.

6. ORNAMENTALS

CROP	DISEASE	STATE	RATE	WHP	CRITICAL COMMENTS
Ornamentals	Botrytis Blight (<i>Botrytis cinerea</i>)	All States	100 mL/ 100 L water	Nil	Spray at 14 day intervals commencing when the disease first becomes apparent and continuing until conditions no longer favour the disease. Spraying Saintpaulia and Poinsettia flowers may result in some petal scorch. Tepid water should be used and wet plants protected from direct sunlight. This use is subject to an CropLife fungicide resistance management strategy: DO NOT apply more than 2 consecutive sprays of a Group 2 fungicide.

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

WITHHOLDING PERIODS:*Harvest*

ALMONDS, MACADAMIAS, MANDARINS, POME FRUIT, POTATOES, STONE FRUIT:
NOT REQUIRED WHEN USED AS DIRECTED.

BOYSENBERRIES, CELERY, RASPBERRIES, STRAWBERRIES, YOUNGBERRIES:
DO NOT HARVEST FOR 1 DAY AFTER APPLICATION.

BRASSICA LEAFY VEGETABLES, GRAPES, KIWIFRUIT, LETTUCE, TOMATOES AND PASSIONFRUIT:
DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION.

PEANUTS: DO NOT HARVEST FOR 12 DAYS AFTER APPLICATION.

SOYBEANS: DO NOT HARVEST FOR 7 WEEKS AFTER APPLICATION.

Grazing

BRASSICA LEAFY VEGETABLES, LUCERNE:
DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 7 DAYS AFTER APPLICATION.

GENERAL INSTRUCTIONS

FARMOZ CHIEF® Aquaflo Fungicide is a dicarboximide contact fungicide with protective and curative action. The active constituent iprodione inhibits germination of spores and growth of fungal mycelium. CHIEF Aquaflo is a water based flowable fungicide offering good crop safety and is non-phytotoxic when used as directed. CHIEF Aquaflo may be used in orchard spraying and post-harvest dip applications as directed to control a broad spectrum of fungal diseases.

FUNGICIDE RESISTANCE WARNING

FARMOZ CHIEF® Aquaflo Fungicide is a **GROUP 2 FUNGICIDE** member of the Dicarboximide group of fungicides. For fungicide resistance management the product is a Group 2 fungicide.

Some naturally occurring individual fungi resistant to the product and other Group 2 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 CHIEF Aquaflo or other Group 2 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, FARMOZ Pty. Ltd. accepts no liability for any losses that may result from the failure of this product to control resistant fungi.

MIXING

Note: CHIEF Aquaflo may be unstable in conditions where the pH is 7 or higher. It is therefore essential to check the pH of the spray solution before adding CHIEF Aquaflo. A suitable registered buffering agent may have to be added to bring pH down below 7 (eg. SprayBuff®).

Add the required amount of CHIEF Aquaflo to the spray tank containing half the required volume of water. Mix thoroughly and make up to the required volume with water

APPLICATION

Good disease control requires even, thorough coverage of the target area. Application should be made using sufficient water to ensure thorough coverage.

Tree and Vine Crops

Dilute Spraying

Use a sprayer designed to apply high volumes of water up to 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. 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 100 L 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 the 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 can then be calculated in the following way:

EXAMPLE ONLY

1. Dilute spray volume as determined above: For example 1500 L/ha.
2. Your chosen concentrate spray volume: For example 500 L/ha.
3. The concentration factor in this example is: 3x (ie $1500 \text{ L} \div 500 \text{ L} = 3$).
4. If the dilute label rate is 10 mL/100 L, then the concentrate rate becomes 3 x 10, that is 30 mL/100 L of concentrate spraying.

The chosen spray volume, amount of product per 100 L 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.

EXPORT OF TREATED PRODUCE

Export produce or animals must have appropriate residue tolerance limits established in the importing countries and any residues must not exceed the tolerance limit.

COMPATIBILITY

This product may be combined in the spray with: azinphos-ethyl, Bugmaster® Flowable, calcium chloride, Strike-Out®, Coppurite, dimethoate, mancozeb, DPA, endosulfan, fenitrothion, Miti-fol®, maldison, metalaxyl, methomyl, parathion-methyl.

With any mixture, thoroughly agitate immediately before applying. It is not recommended to mix this product with more than one of the above chemicals in the tank.

DO NOT tank mix this product with fertilisers.

Mixing CHIEF Aquaflo with Aliette® WG may result in some settling out. As formulations of other manufacturer's products are beyond the control of FARMOZ Pty. Ltd., all mixtures should be tested prior to mixing commercial quantities.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Toxic to aquatic organisms. DO NOT contaminate streams, rivers or waterways with chemical or used containers.

STORAGE AND DISPOSAL

KEEP OUT OF REACH OF CHILDREN. Store in the closed, original container in a cool, well-ventilated area. Protect from frost. 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 empty containers in a local authority landfill. If no landfill is available, bury the empty 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

Avoid contact with eyes and skin. Wear suitable protective clothing, gloves and goggles. If product on skin, immediately wash area with soap and water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

FIRST AID

If poisoning occurs contact a doctor or Poisons Information Centre. Phone Australia 131126.

MATERIAL SAFETY DATA SHEET

Additional information is listed in the material safety data sheet (MSDS). A material safety data sheet for CHIEF Aquaflo is available from FARMOZ on request. Call Customer Service on (02) 9431 7800.

CONDITIONS OF SALE: The use of FARMOZ CHIEF Aquaflo Fungicide being beyond the control of the manufacturer, no warranty expressed or implied is given by FARMOZ 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 FARMOZ Pty. Ltd. accepts no responsibility for any consequence whatsoever from the use of this product.

© Registered trademarks of a Makhteshim-Agan Company

Other trademarks

NOT A DANGEROUS GOOD ACCORDING TO THE AUSTRALIAN DANGEROUS GOODS (ADG) CODE.

PACK SIZES: 5 L, 10 L, 20 L