

**HAZARD CLASSIFICATION:** 6.1E, 6.9B, 9.1A

**APPROVED HANDLER:** This product must be under the control of an approved handler when it is applied in a wide dispersive manner or used by a commercial contractor. This product must not be used for any purpose, or in any manner, contrary to this label unless authorised under appropriate legislation.

**TOXICITY**

- Harmful – may be harmful if swallowed, inhaled or absorbed through the skin. May cause skin or eye irritation. May cause lung damage from repeated exposure at high doses.

**ECOTOXIC**

- Very toxic to aquatic organisms. Avoid contamination of any water supply with product or empty container.

**HANDLING PRECAUTIONS  
STORAGE**

- Store in original container, tightly closed and in a locked, dry, cool area away from foodstuffs. Store in accordance with NZS 8409 Management of Agrichemicals.
- Stores containing 100 litres of Champ Flo are subject to secondary containment and signage and more than 100 litres require emergency response plans.

**PERSONAL PROTECTION**

- Do not get in eyes. Avoid skin contact and inhalation of spray mist. Wear protective clothing such as impervious gloves, eye protection, boots and overalls when mixing or applying. Do not eat, drink or smoke while using. Remove protective clothing and wash hands and face thoroughly before meals and after work.

**EQUIPMENT**

- Apply using well maintained and accurately calibrated equipment. Flush equipment thoroughly with clean water after use.

**DISPOSAL**

- Triple rinse empty container and add rinsate to the spray tank. Recycle empty container. Otherwise crush and bury in a suitable landfill.
- Dispose of product only by using according to the label, or at an approved landfill.

PROPER SHIPPING NAME	HAZARD CLASS	UN No.	HAZCHEM	PG
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (copper 33.45%)	9	3082	2X	III

**HARMFUL • ECOTOXIC**  
**Keep out of reach of children**

**Champ Flo**<sup>TM</sup>  
**INDENT ONLY**

Active Ingredient: 334.5g/litre copper as copper hydroxide in the form of a suspension concentrate.

**A protectant copper fungicide for the control of many diseases on certain fruit and vegetable crops.**



**Net: 10 Litres**



**First Aid:** If swallowed do NOT induce vomiting. For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If splashed in eyes, wash out immediately with water. If inhaled, move the victim to fresh air immediately. Begin artificial respiration if breathing has stopped.

**Spillage:** Wear appropriate protective clothing and prevent material from entering waterways. Contain liquid spills and absorb with inert material. Wash area with water and absorb with further inert material. Dispose of waste safely in an approved landfill.

**Transport:** Do not carry more than 10 litres of Champ Flo on a passenger service vehicle.

**Record Keeping:** Records of use as described in NZS 8409 Management of Agrichemicals must be kept if 3 litres or more of Champ Flo is applied within 24 hours.

Registered pursuant to the ACVM Act 1997, No. P3897. See [www.foodsafety.govt.nz/acvm/](http://www.foodsafety.govt.nz/acvm/) for registration conditions.

Approved pursuant to the HSN0 Act 1996, Approval Code HSR000612. See [www.epa.govt.nz](http://www.epa.govt.nz) for approval controls.

<sup>TM</sup> Champ is a trademark of Nufarm Americas Inc.

**CONDITIONS OF SALE:**

**CAUTION: READ THIS NOTICE BEFORE OPENING THE CONTAINER**

If you open this container you will be deemed to have accepted the conditions below. The results from use of this product may be affected by factors beyond Nufarm's control, including mixing, use, climatic conditions, time of application, crop or crop stage and the possible development of resistance to the active ingredient, even though the product is reasonably fit for the purposes stated in this label, and even though label directions are followed. Nufarm will replace, free of charge, any product which is found to have a manufacturing defect. To the extent permitted by law, all other warranties, guarantees, representations and conditions, whether expressed or implied by law, trade, custom or otherwise are expressly excluded. When you use this product, you agree that neither Nufarm Limited nor any manufacturer of any component of the product will be liable for any damage, injury or loss including consequential loss which arises in any way from the storage, handling, or use of the product. This exclusion of liability includes loss caused by negligent acts or omissions of Nufarm Limited or any supplier or manufacturer of the product or any of their employees and agents.

Marketed by:

Nufarm Limited  
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[www.nufarm.co.nz](http://www.nufarm.co.nz)

Batch No:

D.O.M:

Nufarm Emergency Phonenumber: 0800-651 911 toll free 24 hours

### Champ™ Flo

#### Mixing: Shake or stir well before use.

Add two thirds of the required quantity of water to the spray tank and with the agitation system going, slowly add the Champ Flo. Continue agitation while filling with water. The addition of insecticides, spreader-stickers etc, should be made last after Champ Flo has been thoroughly mixed. Agitate thoroughly before and during spraying and before recommencing spraying after a stoppage. Commonly used spray adjuvants may be added to the tank mix to enhance wetting on hard-to-wet foliage if needed.

**Resistance Management:** Champ Flo is a member of the inorganic copper group of fungicides with multi-site activity. Champ Flo is a

**GROUP M1 FUNGICIDE** Some naturally occurring fungi and bacteria resistant to Champ Flo and other Group M1 fungicides may exist through normal genetic variability in any population. These will not be controlled by Champ Flo or other Group M1 fungicides. The resistant individuals can eventually dominate the population if copper products are used repeatedly. Since the occurrence of resistance is difficult to detect prior to use, Nufarm Limited accepts no liability for any losses that may result from the failure of Champ Flo to control resistant fungi or bacteria. To prevent or delay the development of resistance use Champ Flo in tank mixtures where appropriate, and/or in rotation with fungicides or bactericides having a different mode of action. Refer to [www.resistance.nzpps.org/](http://www.resistance.nzpps.org/) for further information.

**General Information:** Champ Flo goes easily into suspension giving a spray which sticks well on plant surfaces. It controls a number of fungous and bacterial diseases on certain fruit and vegetable crops.

**Crop Caution:** Soft growth of some plant species may be hardened or injured by copper sprays.

**Frost Injury Protection:** Bacterial Ice Nucleation Inhibitor: Application of Champ Flo made to the crops listed on this label, at the rates and stages of growth indicated, just prior to anticipated frost conditions, will afford control of ice nucleating bacteria (*Pseudomonas syringae*, *Erwinia herbicola* and *Pseudomonas fluorescens*) and may therefore provide some protection against light frost. Do not rely solely on Champ Flo for frost protection, especially where weather conditions favour severe frost.

**It is an offence to use this product on animals.**

#### Directions For Use:

Champ Flo may be applied through standard ground and aerial spray equipment.

The recommended dilution rates for Champ Flo in the table below are for high volume spraying to runoff. The volume of water applied per hectare will depend on the crop being sprayed and where necessary should increase during the season to ensure complete coverage of all stages of the crop. For concentrate spraying apply the same volume of Champ Flo per hectare as for dilute sprays.

In conditions of severe disease pressure use the higher recommended rates and reduce the spray interval.

CROP	DISEASE	RATE		COMMENTS
		Per 100L Water	Per Hectare	
<b>FRUIT CROPS</b>				
Apples Pears	Black spot	215ml	4.2 L minimum	Apply as a full cover spray. Make application between silver tip and green tip. <b>CAUTION:</b> Late application may cause phytotoxicity. Discontinue use when green tip is 1cm.
Avocados	Anthraxnose	130-170ml	3.8 L minimum	Apply at monthly intervals from flowering to harvest. During prolonged wet weather reduce application intervals to 14 days.
Berryfruit	Cane wilt Leaf spot Cane spot Spur blight	130-170ml	1.23 L minimum	Apply at bud burst and green tip and continue at 10-14 day intervals.
Citrus	Melanose	85-170ml	3.36 L (mature trees)	Apply during pre and post bloom periods.
	Brown rot	170-215ml	3.36 L (mature trees)	Apply in the autumn.
Feijoas	Leaf spot ( <i>Glomerella sphaceloma</i> )	130-170ml	1.9 L minimum	Apply and repeat as necessary.
Grapes	Downy mildew	130-250ml	1.68 L minimum	Apply during the pre and post bloom periods at 10-14 day intervals. Discontinue use if signs of injury appear.
Kiwifruit	Leaf spot ( <i>Phomopsis</i> sp & others). <i>Botryosphaeria</i>	130-170ml	2.52 L minimum	Apply as dormant sprays only.
Passionfruit	Septoria spot Brown spot Grease spot	85ml	0.84 L minimum	Apply at 2-4 week intervals alternating with mancozeb from November to March. Where grease spot is a problem 2 week intervals may be necessary.
Pears (including Nashi)	Fire blight ( <i>Erwinia amylovora</i> )	45-85ml	1.68 L minimum	<b>Bearing Trees:</b> Make one application between the silver leaf and green tip period. <b>Non Bearing Trees:</b> Maintain a protective cover of regular sprays at 14-21 day intervals until active vegetative growth ceases. Reduce interval between sprays if wet weather prevails. <b>Post Harvest:</b> Apply at 21 day intervals from harvest to leaf fall. Reduce interval between sprays if wet weather occurs and vegetative growth is active.
Stonefruit	Leaf curl, shot hole, bladder plum	215ml	4.2 L minimum	Apply at bud movement with a second application at 150ml/100 litres 10-14 days later.
	Bacterial Blast	280ml	5.6 L minimum	Apply at leaf fall and repeat at monthly intervals throughout the winter until bud movement, then treat as for leaf curl.
Strawberries	Leaf spot	130-170ml	1.23 L minimum	Apply when plants are established and continue on a weekly schedule throughout the season. Use the higher rate early season or under high disease pressure. Discontinue use if signs of crop injury appear.
Tamarillos	Leaf spot	130ml	1.68 L minimum	Apply as necessary

CROP	DISEASE	RATE		COMMENTS
		Per 100L Water	Per Hectare	
<b>VEGETABLES</b>				
Asparagus	Stemphylium leaf spot	225-335ml	2.24 L minimum	Commence spraying at first appearance of disease after closing up and repeat at 14 day intervals to maintain disease control. Ensure good plant coverage. Under high disease pressure a programme of up to 6 applications may be necessary.
Beans	Bacterial blight (Halo & Common)	225-280ml	1.23 L minimum	For protective sprays apply at 7-14 day intervals from when plants are 15cm high.
BRASSICAS: Cabbage Cauliflower- Broccoli Brussels sprouts	Downy mildew	130-215ml	1.23 L minimum	Apply after crop emergence and/or transplanting at 10-14 day intervals as necessary.
Celery	Septoria leaf spot	170ml	1.23 L minimum	Apply as soon as plants are established in the field then at 5-7 day intervals.
Cucurbits	Angular leaf spot Downy mildew	130-260ml	1.23 L minimum	Apply at 7 day intervals after plants have started to vine.
Lettuce	Downy mildew	130-215ml	0.63 L minimum	Begin treatment from crop emergence and repeat every 7-10 days as required to suppress the disease.
Onions	Downy mildew Bacterial blight	160ml	1.77L minimum	Apply on first appearance of disease and repeat every 10-14 days while conditions favour disease development.
Peas	Downy mildew	130-215ml	1.23 L minimum	Begin treatment from crop emergence and repeat at 7-14 day intervals depending on disease severity.
Potatoes	Early & late blight	260-380ml	2.52 L minimum	Apply every 7-10 days from when plants are 15cm high until 2 weeks before harvest.
Tomatoes	Early blight Late blight Bacterial speck Bacterial spot	130-260ml	1.68 L increasing to 3.36 L	Apply at 7-10 day intervals. Reduce spray interval if conditions are favourable for development of the disease. Ensure spray volumes of 1500 litre/hectare as crop reaches maximum growth and ensure full coverage of upper and lower leaf surfaces. Repeat application after more than 13mm rain or irrigation.
<b>FORESTRY</b>				
Pine Trees	Pine needle blight ( <i>Dothistroma pini</i> )		2.24-3.92 L	<b>Aerial application to plantations:</b> Apply in 60-100 litres of water per hectare. Make one application in November or early December. Repeat at yearly intervals if necessary.
			1.12-2.8 L	<b>Ground operated equipment in nurseries:</b> Apply with 1% summer oil in 600-1100 litres of water. Commence spraying in October or November and repeat at monthly intervals until planting out.