

THALONIL

For the control of certain fungal diseases in Fruit, Ornamentals, Turf, Vegetables and Wheat

GROUP

M5

FUNGICIDE

Contains 720 g/litre chlorothalonil in the form of a suspension concentrate



AGRISOURCE

PRODUCTS FOR AGRICULTURE

**DANGER
ECOTOXIC**

Keep out of the reach of children

Net Contents

10 Litres

FREE RECYCLING



AGRECOVERY

www.agrecovery.co.nz

GENERAL INFORMATION

Thalonil is a protectant fungicide for the control of certain fungus diseases on a wide range of vegetables, fruits, ornamental crops, turf and wheat. For effective disease control, good leaf coverage with **Thalonil** must be achieved before a disease outbreak occurs.

It is an offence to use this product on animals.

IMPORTANT - RESISTANCE MANAGEMENT

Thalonil contains the

GROUP	MS	FUNGICIDE
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 chlorothalonil. Resistance to pesticides can develop from excessive use. To minimise this risk, avoid using this fungicide exclusively all season, avoid unnecessary spraying and endeavour to alternate with fungicides from other groups within the crop and in subsequent seasons for a sprayed paddock. Use strictly in accordance with label instructions. Maintain good cultural practices."

MIXING

Shake the container well before opening. Measure the required amount into the half filled spray tank with agitation running. Complete filling the spray tank. The product must be kept in suspension at all times by continuous agitation. Where prepared spray mixes have been allowed to stand, thoroughly re-agitate before using.

COMPATIBILITY

Thalonil is compatible with most commonly used fungicides, insecticides and miticides. Do not combine with oil based emulsifiable formulations, in the spray tank. **DO NOT** use with lime sulphur or Bordeaux mixture.

DO NOT mix spraying oils with this product.

WETTING AGENTS

The addition of a surfactant does not improve this product's performance, and, under some conditions may cause plant injury.

APPLICATION

Good spray coverage of the entire crop canopy is required, for high volume spraying use a minimum of 800L of water/ha, increase this volume as necessary, to ensure complete canopy coverage at all stages of crop development. The rates suggested are for high volume spraying to run-off. For concentrate spraying, adjust dilution rates accordingly.

APPLICATION RATES

CROP	DISEASE	RATE/100L WATER	RATE/HA	CRITICAL COMMENTS
Asparagus	Stemphylium, Leaf Spot	210ml	2.1L	Commence spraying at first appearance of disease after closing up. Repeat at 14 to 28 day intervals to maintain control until ferns die off. Use the shorter spray interval when disease pressure is high. Ensure good plant coverage.
Beans Butter, Green, Pole	Rust	175 – 210ml	1.4L	Apply at seedling emergence and continue at 10 to 21 day intervals.
Beans Broad		210 – 245ml	2.1L	Apply at first appearance of foliar infection and repeat at 10 to 21 day intervals or as needed to maintain disease control.
Berryfruit Boysenberries, Blackberries, Loganberries	Dryberry, *Botrytis	210 – 245ml	2.1L	Apply as a full season cover spray, at 14 day intervals from bud burst onwards. Reduce the interval to 7 to 10 days when infection is severe. Autumn applications are necessary to protect primocanes from infection.
Blackcurrants	Leaf Spot	210ml	2.1L	Apply from bud burst onwards at 10 to 14 day intervals.
Brassicac Cabbage, Cauliflower, Broccoli, Brussels Sprouts	Downy Mildew, Ring Spot	175 – 210ml	1.4L	Use the high rate for Ring Spot control. Apply at seedling emergence and continue at 10 to 21 day intervals.
Celery	Septoria, Leaf Spot	210 – 245ml	2.1L	Apply as a full season cover spray starting from post-planting at 7 to 14 day intervals.
Cucurbits Cucumbers, Melons, Squash	Downy Mildew, Powdery Mildew	175 – 210ml	1.4L	Apply at seedling emergence and continue at 10 to 21 day intervals.
Grapes	Black Spot, Downy Mildew, Powdery Mildew, *Botrytis	210 – 245ml	2.1L	DO NOT use on table grapes. Apply as a full season cover spray at 10 to 14 day intervals from bud burst onwards. When disease pressure is high reduce the interval to 7 to 10 days. Note: Use after the start of capfall may on result in fruit russet, especially on white varieties.
Lettuce	Ring Spot	210 – 245ml	2.1L	Apply at seedling emergence and continue at 7 to 10 day intervals throughout the growing period. To prevent disease establishment a regular protective program is necessary.
Ornamentals Camellias, Carnations, Chrysanthemums, Geraniums, Statice, Roses	Black Spot, Downy Mildew, Flower Blight, Powdery Mildew, * Botrytis	175 – 210ml	-	DO NOT spray when flower buds are showing petal colour as bloom damage may occur. Apply from the commencement of new growth at 10 to 21 day intervals.
Pipfruit non bearing Apples, Pears	Black Spot	210 – 245ml	2.1L	Apply as a full season cover spray at 14 to 21 day intervals. DO NOT apply to bearing trees as fruit russet may occur.
Potatoes	Early Blight, Late Blight	140ml	1.1L	Apply at 7 to 14 day intervals or as needed to maintain disease control.
Stonefruit Apricots, Cherries, Nectarines	Leaf Curl	160 – 210ml	-	Apply pre bud swell. Where disease levels are high, repeat application from pink to shuckfall at 7 to 14 day intervals.
Stonefruit Peaches, Plums	Brown Rot, Rust, Blossom Blight	160 – 210ml	-	Apply at 7 to 14 day intervals from pink to shuckfall.
Strawberries	Alternaria Leaf Spot, *Botrytis	210- 245ml	2.1L	Apply from bud burst onwards as a full season cover spray at 14 day intervals. When infection is severe, reduce the interval to 7 to 10 days.
Tomatoes Outdoor	Early Blight, Late Blight, *Botrytis	210- 245ml	2.1L	Apply at planting out and continue until harvest at 10 to 14 day intervals.
Turf Cotula	Dollar Spot, Brown Patch, Leaf Spotting/Melting Out	70 – 140ml/ 100 m ²	-	Use the low rate for preventative applications and the high rate as a curative application. Under conditions of high pressure repeat at 10 to 14 day intervals. Spray in enough water to thoroughly wet foliage (7.5 to 10 litres per 100 square metres). When treating diseased turf especially where thatch is present add a wetting agent to ensure adequate penetration and control of residual infection sources. MUST NOT be used on areas to be grazed.
	Anthraconose, Fusarium Patch, Red Thread	105 – 210ml/ 100 m ²	-	
Wheat DO NOT use if stock are likely to graze the stubble. DO NOT remove the straw from treated fields	Ascochyta spp, Didymella, Glume Blotch, Sooty Moulds		0.7 – 1.4L	Apply at flag leaf emergence and again up until full ear emergence if cool, wet conditions prevail. Use the higher rate where disease risk levels are high. For control of other diseases tank mix Thalonil with other cereal fungicides.

DIRECTIONS FOR USE

MANDATORY DIRECTIONS

Thalonil contains minute quantities of HCB, a compound that can be taken up by grazing stock to give unacceptable residues in meat and milk, the following restrictions **MUST** be observed:

DO NOT graze treated crops.

DO NOT feed any part of treated crop e.g. straw, to stock.

CULTIVATE treated areas thoroughly (ie not direct drilling or other minimum tillage techniques) before sowing any animal feed crop or pasture.

WITHHOLDING PERIODS

Beans (Broad, Butter, Green & Pole).....	7 days
Berryfruit (Boysenberries, Blackberries & Loganberries).....	7 days
Blackcurrants.....	7 days
Brassicac, (Cabbage, Cauliflower, Broccoli & Brussels Sprouts).....	7 days
Celery.....	7 days
Cucurbits (Cucumbers, Melons & Squash).....	1 day
Grapes.....	28 days
Lettuce.....	10 days
Potatoes.....	7 days
Tomatoes (Outdoors).....	7 days
Strawberries.....	1 day
Stonefruit (Apricots, Cherries, Nectarines, Peaches & Plums).....	DO NOT use after shuckfall
Wheat.....	56 days

It is an offence for users of this product to cause residues exceeding the relevant MRL in the Food Notice: Maximum Residue Levels for Agricultural Compounds.

***Botrytis** **Thalonil** applied as a full season cover spray will prevent Botrytis. But, during periods of high risk (wet, humid) weather, use a specific Botrytis fungicide.

READ LABEL COMPLETELY BEFORE USE

HSNO CLASSIFICATIONS: 6.1B, 6.3B, 6.5B, 6.7B, 6.9A, 8.3A, 9.1A, 9.2C, 9.3B

CERTIFIED HANDLER

This product must be under the personal control of a certified handler.

TRACKING

Location and movement of this product must be recorded at each stage of its lifecycle. This product is restricted to workplaces only.

RECORD KEEPING

Where 3 kg or more of the substance is applied within 24 hours, in a place where the substance is likely to enter air or water and leave the application area, a PCBU with management or control of the substance must ensure that a written record is kept of each application of the substance. Refer to Part 4 Clause 48 of the Hazardous Substances (Hazardous Property Controls) notice 2017 for details of information that must be recorded.

PCBU RESPONSIBILITIES

A PCBU with management and control of the place to where this product is being used, handled, manufactured, stored or applied must ensure that every worker who handles it, is provided with adequate information, training and instruction. This includes provision and training in the use of any personal protective equipment to be used.

QUALIFICATIONS REQUIRED FOR USE OF THIS CLASS 9 PRODUCT

Anyone who mixes, loads, or applies this product, either by air or ground based methods, is required to be suitably qualified. Refer to Schedule 10 of the Hazardous Substances (Hazardous Property Controls) notice 2017 for a list of suitable qualifications.



DANGER

May be fatal if swallowed, inhaled or absorbed through the skin. May cause skin and eye irritation. Avoid skin or eye contact. May cause organ damage from repeated oral exposure at high doses.

HARMFUL

May cause skin and eye irritation. May cause sensitisation from prolonged skin contact. Avoid contact with skin or eyes. Limited evidence of a carcinogenic effect in animal studies. May cause kidney damage from repeated oral exposure at high doses.

CORROSIVE

This corrosive and may cause eye damage.

ECOTOXIC

Very Toxic to aquatic organisms with long-lasting effects. Avoid contamination of any water supply with product or empty container.

Toxic to the soil environment. Toxic to terrestrial vertebrates.

HANDLING PRECAUTIONS

Personal Protection: When mixing or applying, avoid contact with skin and eyes. Wear full protective clothing, gloves and goggles. Do not eat or drink while using. Wash hands and face before meals and after work. Wash protective clothing after work.

Equipment: Apply using accurately calibrated and maintained equipment in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS8409). Flush spray equipment thoroughly with water after use.

Storage: Store in original container tightly closed and in a locked, dry, cool, well ventilated area away from fertilisers, feed, seeds and foodstuffs. Keep out of reach of children. Store in accordance with NZ 8409 Management of Agrichemicals.

Shelf Life: When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture. Contact your supplier for further information about the use of any product that is older than this.

Spillage: Move non-essential people from the area. Wear appropriate protective clothing and prevent material from entering waterways. Absorb spills with inert material and place in waste containers. Sweep up solids without creating dust. Wash area with water and absorb with further inert material. Dispose of waste safely (such as to a suitable landfill).

Product Disposal: Dispose of unwanted product is by used by another operator strictly in accordance with label directions.

Container Disposal: Triple rinse container and add rinsate to spray tank. Dispose of cleaned container at your local AGRECOVERY container collection site. Do not use container for any other purpose.

Safety Data Sheet: Additional information is provided in the SDS available from your supplier.

FIRST AID

If swallowed DO NOT induce vomiting. For advice, contact the National Poisons Centre 0800 Poison (0800764 766) or a doctor immediately. If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If concentrate is splashed in the eyes, flush with running water immediately.

EMERGENCY RESPONSE

In a transport emergency call 111, Police or Fire Brigade.

CONDITIONS OF SUPPLY

All goods supplied by us are produced under rigid quality control procedures which assure the purchaser that at the time of sale they are physically suitable for use in the manner stated. However, to the extent permitted by law, buyers and/or users of the goods accept that neither the manufacturer, Agri Solutions Ltd as registrant, nor any other distributor have any liability or responsibility whatsoever for any loss, damage or injury whether in contract or tort, whether direct, indirect or consequential howsoever arising in connection with the supply of these goods.

Registered pursuant to the ACVM Act 1997 No. P8408

See www.foodsafety.govt.nz for registration conditions

Approved pursuant to HSNO Act 1996 No. HSR000670

See www.epa.govt.nz for approval conditions

REGISTRANT

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BATCH NO:

DATE OF
MANUFACTURE:

24 HOUR EMERGENCY RESPONSE 0800 CHEMCALL (0800 243 622)