



READ SAFETY DIRECTIONS BEFORE OPENING OR USING

# FILAN® FUNGICIDE

**ACTIVE CONSTITUENT: 500 g/kg BOSCALID**

GROUP	<b>7</b>	FUNGICIDE
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For the control of botrytis bunch rot and powdery mildew in grapevines; and early blight in potatoes, tomatoes, eggplant, capsicums and peppers; Sclerotinia rot in a range of vegetable crops; Neck rot in onions and dollar spot in turf as specified in the DIRECTIONS FOR USE table.

**IMPORTANT: READ THE ATTACHED LEAFLET BEFORE USE.**

NET CONTENTS: 2.5 kg

BASF Australia Ltd ABN 62 008 437 867  
Level 12, 28 Freshwater Place Southbank VICTORIA 3006

® Registered trademark of BASF

APVMA Approval No.: 56362/104393

**STORAGE AND DISPOSAL**

Keep out of reach of children. Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight. Triple or preferably pressure 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 the empty packaging for appropriate disposal in 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**

Will irritate the eyes. Avoid contact with eyes. When opening the container and preparing spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), a washable hat and, elbow-length PVC gloves. After each day's use, wash gloves and contaminated clothing. Wash hands after use.

**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.

**FILAN FUNGICIDE**

**500g/kg BOSCALID**

**HAZARD STATEMENTS**

Toxic to aquatic life

**CONDITIONS OF SALE**

All conditions and warranties rights and remedies implied by law or arising in contract or tort whether due to the negligence of BASF Australia Ltd ABN 62008437867 or otherwise are hereby expressly excluded so far as the same may legally be done provided however that any rights of the Buyer pursuant to non-excludable conditions or warranties of the Competition and Consumer Act 2010 or any relevant legislation of any State are expressly preserved but the liability of BASF Australia Ltd or any intermediate Seller pursuant thereto shall be limited if so permitted by the said legislation to the replacement of the goods sold or the supply of equivalent goods and all liability for indirect or consequential loss or damage of whatsoever nature is expressly excluded. This product must be used or applied strictly in accordance with the instructions appearing hereon. This product is solely sold for use in Australia and must not be exported without the prior written consent of BASF Australia Ltd.

APVMA Approval No: 56362/104393

Batch No:

Date of Manufacture:

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FOR SPECIALIST ADVICE IN AN EMERGENCY ONLY PHONE 1800 803 440 TOLL FREE-ALL HOURS-AUSTRALIA WIDE

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**DIRECTIONS FOR USE****RESTRAINTS:**

DO NOT apply by aerial application to crops other than potatoes.

DO NOT apply more than four applications of FILAN to the same paddock per year (other than turf), including areas which have been double cropped when using FILAN in annual cropping situations.

DO NOT treat vineyards that will or may be grazed by livestock.

For use in field grown legume vegetable crops only. DO NOT use on legume vegetable crops grown in covered or protected situations such as glasshouses, greenhouses or plastic tunnels.

**SPRAY DRIFT RESTRAINTS (For Aerial Application to Potatoes only)**

DO NOT apply with spray droplets smaller than a **MEDIUM** spray droplet size category according to nozzle manufacturer specifications that refer to the ASAE S572 Standard or the BCPC Guideline.

DO NOT apply when wind speed is less than 3 or more than 20 kilometres per hour as measured at the application site.

DO NOT apply during surface temperature inversion conditions at the application site.

Users of this product **MUST make an accurate written record** of the details of each spray application within 24 hours following application and **KEEP** this record for a minimum of 2 years. The spray application details that must be recorded are: **1** date with start and finish times of application; **2** location address and paddock/s sprayed; **3** full name of this product; **4** amount of product used per hectare and number of hectares applied to; **5** crop/situation and weed/pest; **6** wind speed and direction during application; **7** air temperature and relative humidity during application; **8** nozzle brand, type, spray angle, nozzle capacity and spray system pressure measured during application; **9** name and address of person applying this product. (Additional record details may be required by the state or territory where this product is used.)

**MANDATORY NO-SPRAY ZONES**

No downwind mandatory no-spray zones are required for either aerial or ground application of Filan to potatoes (or for ground application to any other crops).

CROP	DISEASE	RATE	WHP	CRITICAL COMMENTS
Grapevines	Bunch rot ( <i>Botrytis cinerea</i> )  Powdery mildew ( <i>Erysiphe necator</i> )	<u>Dilute spray</u> 100 to 120 g/100 L water  <u>Concentrate spray</u> Refer to the Application section.	<u>Harvest</u> 4 weeks <u>Grazing</u> DO NOT treat vineyards that will or may be grazed by livestock	Apply as part of a <i>Botrytis</i> bunch rot program: In a 3 spray program, apply only 1 spray of FILAN. In a 4 spray program, apply only 2 sprays of FILAN. Do NOT apply consecutive sprays of FILAN.  The ideal timing for the first spray is 5 % capfall. DO NOT apply after 5% capfall on grapes grown for wine export. Applications can also be made at 80 % capfall, pre-bunch closure, veraison or 4 weeks prior to harvest on table grapes or grapes for domestic wine. Use the high rate when conditions favour high disease pressure. Use the lower rate at all other times or when mixing with CABRIO® Fungicide or CABRIO 200 WG for the control of downy mildew, powdery mildew and Botrytis. Refer to the CABRIO label for full Directions for Use before applying in a mixture with FILAN. 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 in equipment that requires rates greater than 600 g/100 L (5X concentration). Do not apply in volumes less than 250 L/ha
Potatoes	Early blight ( <i>Alternaria solani</i> )	<u>Ground application</u> 150g/ha + POLYRAM® DF or mancozeb 750DF or mancozeb 420SC at label rates <u>Aerial application</u> 150g/ha + POLYRAM® DF or mancozeb 750DF or mancozeb 420SC at label rates	<u>Harvest</u> 7 days	DO NOT apply more than four applications of FILAN to the same paddock per year, including areas which have been double cropped. Apply as part of a protectant program using two sprays 10 to 14 days apart. Apply only as a tank mixture with POLYRAM DF or mancozeb at registered rates. Refer to the POLYRAM DF or mancozeb label for full directions for use before applying in a tank mixture with FILAN. The tank mixture should be used when conditions favour disease development in the period between row closure and the beginning of flowering. If overhead irrigation is used apply immediately following irrigation. AERO® Fungicide is suited to follow FILAN after a further 10 to 14 day interval. Refer to the AERO label for full Directions for Use before using this product. Use the shorter interval when disease pressure remains high.
Brassica vegetables Leafy vegetables (including brassica leafy vegetables)	Sclerotinia rot ( <i>Sclerotinia minor</i> , S. sclerotiorum)	1kg/ha	<u>Harvest</u> 7 days	DO NOT apply more than four applications of FILAN to the same paddock per year, including areas which have been double cropped. FILAN applications should be included in an integrated disease control program that incorporates other measures such as crop rotation, planting resistant crop varieties and moisture management to

Legume vegetables (field grown only)			<u>Harvest &amp; Grazing</u> <u>7 days</u>	reduce humidity and crop wetness in order to limit disease pressure. FILAN has locally systemic properties but good coverage of the crop is also essential for effective disease control especially on large canopies later in the season.
Root and tuber vegetables			<u>Harvest</u> <u>7 days</u>	<p>Brassicas and Leafy vegetables: Apply FILAN prior to disease development and repeat after 7 to 14 days using the shorter interval when rapid crop growth occurs or conditions favour disease.</p> <p>Lettuce only (direct seeded crops) - apply FILAN immediately after emergence and repeat application 7 to 14 days later.</p> <p>Lettuce only (transplanted crops) - apply FILAN immediately after planting and repeat application 7 to 14 days later. Spray should be directed to the stems at ground level and lower leaves for optimum control.</p> <p>Legume vegetables: Apply FILAN at early flowering to prevent petal infection and repeat after 7 to 14 days.</p> <p>Root and tuber vegetables: Apply FILAN in a program of two sprays 7 to 14 days apart commencing before disease has developed in the crop.</p>
Onions	Neck rot (Botrytis allii)	<u>1kg/ha</u>	-	<p>Apply between flag leaf and 5 true leaf stage, when conditions favour disease development. Apply a maximum of two sprays 7-10 days apart.</p> <p>Do NOT apply later than 10 days after the commencement of bulbing.</p>
Capsicum Eggplant Peppers	Early blight (Alternaria solani)	<u>150g/ha + POLYRAM® DF at 2 to 3 kg/ha</u>	<u>Harvest</u> <u>14 days</u>	<p>DO NOT apply more than four applications of FILAN to the same paddock per year, including areas which have been double cropped.</p> <p>Apply as part of a protectant program using two sprays 10 to 14 days apart. Apply only as a tank mixture with POLYRAM DF at registered rates. Refer to the POLYRAM DF label for full directions for use before applying in a tank mixture with FILAN. FILAN should be used when conditions favour disease development. If overhead irrigation is used apply immediately following irrigation. AERO fungicide is suited to follow FILAN after a further 10 to 14 day interval. Refer to the AERO label for full Directions for Use before using this product. Use the shorter interval when disease pressure remains high.</p>

<p>Tomatoes (except greenhouse)</p>	<p>Early blight (<i>Alternaria solani</i>)</p>	<p><u>150g/ha + POLYRAM® DF at 2 to 3 kg/ha</u> Or <u>mancozeb 750DF or mancozeb 420SC at label rates</u></p>	<p><u>Harvest 7 days (when mixed with mancozeb)</u>  <u>14 days (when mixed with POLYRAM DF)</u></p>	<p>DO NOT apply more than four applications of FILAN to the same paddock per year, including areas which have been double cropped. Apply as part of a protectant program using two sprays 10 to 14 days apart. Apply only as a tank mixture with POLYRAM DF or mancozeb at registered rates. Refer to the POLYRAM DF or mancozeb label for full directions for use before applying in a tank mixture with FILAN. FILAN should be used when conditions favour disease development. If overhead irrigation is used apply immediately following irrigation. AERO fungicide is suited to follow FILAN after a further 10 to 14 day interval. Refer to the AERO label for full Directions for Use before using this product. Use the shorter interval when disease pressure remains high.</p>
<p>Turf</p>	<p>Dollar spot (<i>Sclerotinia homeocarpa</i>)</p>	<p><u>780g/ha in a minimum of 400L water/ha</u></p>	<p>=</p>	<p>Spray when conditions favour disease, generally from September to March. Apply a second FILAN spray 14 to 28 days later. Use shorter intervals when conditions favour disease development. DO NOT apply more than 2 consecutive sprays of FILAN. Alternate to other effective fungicides before re-applying FILAN. DO NOT apply more the 4 sprays of FILAN per season to turf.</p>

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

**WITHHOLDING PERIODS:**

**HARVEST:**

BRASSICA VEGETABLES, LEAFY VEGETABLES (INCLUDING BRASSICA LEAFY VEGETABLES), LEGUME VEGETABLES, ROOT AND TUBER VEGETABLES (EXCEPT POTATOES):

DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION.

POTATOES: DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION IF USING ALONE, or MIXING WITH POLYRAM DF or MANCOZEB.

DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION IF MIXING WITH MANCOZEB.

ONIONS: NOT REQUIRED WHEN USED AS DIRECTED.

TOMATOES: DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION IF MIXING WITH MANCOZEB  
DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION IF MIXING WITH POLYRAM.

CAPSICUM, EGGPLANT, & PEPPERS: DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION.

GRAPEVINES: DO NOT HARVEST FOR 4 WEEKS AFTER APPLICATION.

**GRAZING**

LEGUME VEGETABLES: DO NOT GRAZE FOR STOCK FOOD FOR 7 DAYS AFTER APPLICATION

GRAPEVINES: DO NOT TREAT VINEYARDS THAT WILL OR MAY BE GRAZED BY LIVESTOCK.

TURF: DO NOT GRAZE TREATED AREAS OR FEED TURF CLIPPINGS FROM TREATED AREAS TO ANIMALS INCLUDING POULTRY.

**LIVESTOCK DESTINED FOR EXPORT MARKETS**

The grazing withholding period only applies to stock slaughtered for the domestic market. Some export markets apply different standards. To meet these standards, ensure that in addition to complying with the grazing withholding period, the Export Slaughter Interval is observed before stock are sold or slaughtered.

**EXPORT SLAUGHTER INTERVAL (ESI) - 14 DAYS**

LIVESTOCK THAT HAVE BEEN GRAZED ON, OR FED TREATED FORAGE, FODDER OR STUBBLE SHOULD BE PLACED ON CLEAN FEED FOR 14 DAYS PRIOR TO EXPORT SLAUGHTER

**EXPORT OF TREATED PRODUCE**

Growers should note that suitable Maximum Residue Limits (MRLs) or import tolerances may not exist in all export markets for crops treated with Filan Fungicide. Additionally, some export markets have established MRLs different to those in Australia. If you are growing fruit for export (including fresh, dried or as wine) please check with your industry spray diary, peak industry body (such as the Australian Wine Research Institute [www.awri.com.au](http://www.awri.com.au)) or BASF Australia Ltd for the latest information on MRLs and import tolerances before using Filan Fungicide.

**GENERAL INSTRUCTIONS**

**FUNGICIDE RESISTANCE WARNING**

**GROUP 7 FUNGICIDE**

FILAN Fungicide is a member of the oxathiin group of fungicides. For fungicide resistance management, FILAN Fungicide is a Group 7 fungicide. Some naturally-occurring individual fungi resistant to FILAN Fungicide and other Group 7 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 FILAN Fungicide or other Group 7 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, BASF Australia Ltd accepts no liability for any losses that may result from the failure of FILAN Fungicide to control resistant fungi.

### **MIXING**

Partly fill the spray tank with water and add the required amount of product while stirring. If required, add compatible products and agitate thoroughly. Continue agitation as filling of the tank is completed. Agitate again before spraying commences.

If tank mixing with other water dispersible granule (WG) or wettable powder (WP) formulations, ensure they are mixed in well before adding emulsifiable concentrate (EC) or suspension concentrate (SC) products. WP formulations should be pre-mixed separately prior to adding to the spray tank.

### **APPLICATION**

#### **Dilute Spraying**

- ◆ Use a sprayer designed to apply high spray volumes, 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 spray solution to cover the crop to the point of run-off. Avoid excessive run-off.
- ◆ The required spray volume to achieve point of run off may be determined by applying different test volumes, using different settings on the sprayer, or from industry guidelines or other 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 to achieve point of run off 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 concentrate spraying (that is a sprayer which applies spray 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 spray 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 spraying 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: 3 X (i.e.  $1500 \text{ L} \div 500 \text{ L} = 3$ )
  4. If the dilute label rate is 20 mL/100 L, then the concentrate rate becomes 3 x 20 (that is 60 mL of product per 100 L water for 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.

### **COMPATIBILITY**

Filan is compatible with POLYRAM DF or MANCOZEB. FILAN is compatible with a wide range of agricultural chemicals. A jar test with local water should be conducted before using any new tank mixtures with FILAN. For further information on compatibility please contact your local reseller or BASF representative.

**RE-ENTRY PERIOD**

**Brassica vegetables:** DO NOT enter treated areas for 4 days to conduct high exposure activities (such as hand harvesting, irrigation, pruning, topping and tying of mature plants), 2 days for medium exposure activities (such as scouting mature plants) and until the spray has dried for low exposure activities (such as irrigation, scouting, thinning and weeding of immature plants) unless wearing cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each day's use.

Other situations: DO NOT enter treated areas until the spray has dried unless wearing cotton overalls buttoned to the neck and the wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each day's use.

**PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT**

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

**STORAGE AND DISPOSAL**

Keep out of reach of children. Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight. Triple or preferably pressure 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 the empty packaging for appropriate disposal in 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.

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**FIRST AID**

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