



READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Nufarm  
**Filan**<sup>®</sup>  
Fungicide

ACTIVE CONSTITUENT: 500 g/kg BOSCALID

GROUP **7** FUNGICIDE

For the control of bunch rot (*Botrytis cinerea*) and powdery mildew (*Erysiphe necator*) in grapevines and early blight (*Alternaria solani*) in potatoes, tomatoes, eggplant, capsicums and peppers as specified in the Directions for Use.

READ COMPLETE DIRECTIONS FOR USE BEFORE USING THIS PRODUCT

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APVMA Approval No.: 59032/50602

#### DIRECTIONS FOR USE

##### RESTRAINTS:

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

DO NOT apply more than two applications of FILAN to the same paddock per year, 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.

##### 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

**DO NOT** apply if there are livestock, pasture or any land that is producing feed for livestock downwind from the application area and within the **mandatory no-spray zones** shown in Table 1 below:

Table 1 – No-Spray Zones for Protection of International Trade	
FOR AERIAL APPLICATION (potatoes only)	
Wind Speed Range at Time of Application	Downwind Mandatory No-Spray Zone
from 3 to 8 kilometres per hour	140 metres
from 8 to 14 kilometres per hour	250 metres
from 14 to 20 kilometres per hour	300 metres
FOR GROUND APPLICATION	
from 3 to 20 kilometres per hour	not required

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 120g/100L 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 <i>Botrytis</i> . 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 600g/100L (5X concentration). DO NOT apply in volumes less than 250L/ha.
Potatoes	Early blight ( <i>Alternaria solani</i> )	<u>Ground application</u> 150g/ha + POLYRAM® DF or PENNCOZEB® 750DF or 420SC at label rates <u>Aerial application</u> 150g/ha + POLYRAM® DF or PENNCOZEB® 750DF or 420SC at label rates	<u>Harvest</u> 7 days (when mixed with POLYRAM DF or PENNCOZEB 750DF)  14 days (when mixed with PENNCOZEB 420SC)	<b>DO NOT apply more than two applications of FILAN to the same paddock per year, including areas which have been double cropped.</b> 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 PENNCOZEB 750DF or 420SC at registered rates. Refer to the POLYRAM DF or PENNCOZEB 750DF or 420SC 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.
Capsicum Eggplant Peppers	Early blight ( <i>Alternaria solani</i> )	150g/ha + POLYRAM® DF at 2 to 3 kg/ha	<u>Harvest</u> 14 days	<b>DO NOT apply more than two applications of FILAN to the same paddock per year, including areas which have been double cropped.</b> 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.
Tomatoes (except greenhouse)	Early blight ( <i>Alternaria solani</i> )	150g/ha + POLYRAM® DF or PENNCOZEB® 750DF or 420SC at label rates	<u>Harvest</u> 7 days (when mixed with PENNCOZEB 750DF or 420SC)  14 days (when mixed with POLYRAM DF)	<b>DO NOT apply more than two applications of FILAN to the same paddock per year, including areas which have been double cropped.</b> 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 PENNCOZEB 750DF or 420SC at registered rates. Refer to the POLYRAM DF or PENNCOZEB 750DF or 420SC 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.

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

**WITHHOLDING PERIODS**

**POTATOES:** DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION IF MIXING WITH POLYRAM DF or PENNCOZEB 750DF.  
DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION IF MIXING WITH PENNCOZEB 420SC.

**TOMATOES:** DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION IF MIXING WITH PENNCOZEB 750DF or 420SC.  
DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION IF MIXING WITH POLYRAM DF.

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

**GRAPEVINES:** DO NOT HARVEST FOR 4 WEEKS AFTER APPLICATION.  
DO NOT TREAT VINEYARDS THAT WILL OR MAY BE GRAZED BY LIVESTOCK.

**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) or Nufarm Australia Limited for the latest information on MRLs and import tolerances before using Filan Fungicide.

**FUNGICIDE RESISTANCE WARNING**

<b>GROUP</b>	<b>7</b>	<b>FUNGICIDE</b>
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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, Nufarm Australia Limited 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 concentration (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 volumes of water up to the point of runoff 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 runoff. 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 100L 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 concentrate spraying (that is a sprayer which applies water volumes less than those required to reach the point of runoff) 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 spraying can then be calculated in the following way:

**EXAMPLE ONLY**

Dilute spray volume as determined above: For example 1500L/ha

Your chosen concentrate spray volume: For example 500L/ha

The concentration factor in this example is: 3x(i.e. 1500L÷500L=3)

If the dilute label rate is 120g/100L, then the concentrate rate becomes 3x120, that is 360g/100L of concentrate spray.

- The chosen spray volume, amount of product per 100L of water, and the sprayer set up and operation may need to be changed as the crop grows.
- For concentrate application, DO NOT use in equipment that requires greater than 600g/100L (5x concentration). DO NOT apply in volumes less than 250L/ha.
- 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, PENNCOZEB 750DF or PENNCOZEB 420SC. FILAN is also 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 Nufarm representative.

**RE-ENTRY PERIOD**

DO NOT allow entry into treated areas until the spray has dried. If prior entry is necessary, wear 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 life. DO NOT contaminate streams, rivers or watercourses with this product 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 empty packaging for appropriate disposal at an approved waste management facility. If an approved waste management facility is not available bury the empty packaging 500mm 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 13 11 26.

**MATERIAL SAFETY DATA SHEET**

For further information refer to the Material Safety Data Sheet (MSDS), which can be obtained from your supplier or from the Nufarm website – [www.nufarm.com.au](http://www.nufarm.com.au)

**CONDITIONS OF SALE**

"Any provisions or rights under the Trade Practices Act 1974 or relevant state legislation which cannot be excluded by those statutes or by law are not intended to be excluded by these conditions of sale. Subject to the foregoing, all warranties, conditions, rights and remedies, expressed or implied under common law, statute or otherwise, in relation to the sale, supply, use or application of this product, are excluded. Nufarm Australia Limited and/or its affiliates ("Nufarm") shall not accept any liability whatsoever (including consequential loss), or howsoever arising (including negligence) for any damage, injury or death connected with the sale, supply, use or application of this product except for liability which cannot be excluded by statute."

**In case of emergency: Phone 1800 033 498** Ask for shift supervisor. Toll free 24 hours.

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