

FARMALINX

# Challenger

FUNGICIDE

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

A maximum of two applications may be made per canola crop.  
DO NOT apply if heavy rain has been forecasted within 48 hours.  
DO NOT apply to waterlogged soil.  
DO NOT irrigate past the point of runoff for 48 hours after application.

**SPRAY DRIFT RESTRAINTS**

Specific definitions for terms used in this section of the label can be found at [apvma.gov.au/spraydrift](http://apvma.gov.au/spraydrift).

DO NOT allow bystanders to come into contact with the spray cloud.

DO NOT apply in a manner that may cause an unacceptable impact to native vegetation, agricultural crops, landscaped gardens and aquaculture production, or cause contamination of plant or livestock commodities, outside the application site from spray drift. The buffer zones in the relevant buffer zone table/s below provide guidance but may not be sufficient in all situations. Wherever possible, correctly use application equipment designed to reduce spray drift and apply when the wind direction is away from these sensitive areas.

DO NOT apply unless the wind speed is between 3 and 20 kilometres per hour at the application site during the time of application.

DO NOT apply if there are hazardous surface temperature inversion conditions present at the application site during the time of application. Surface temperature inversion conditions exist most evenings one to two hours before sunset and persist until one to two hours after sunrise.

DO NOT apply unless spray droplets are not smaller than a MEDIUM spray droplet size category.

**MANDATORY NO-SPRAY ZONE**

DO NOT apply if there are aquatic and wetland areas, including aquacultural ponds, surface streams and rivers downwind from the application area and within the mandatory no-spray zones shown below.

No-Spray Zones for Protection of the Aquatic Environment	
FOR AERIAL APPLICATION	
Wind Speed Range at Time of Application	Downwind Mandatory No-Spray Zone
	<b>Fixed-Wing</b>
From 3 to 20 kilometres per hour	180 metres
	<b>Helicopter</b>
From 3 to 20 kilometres per hour	120 metres
FOR GROUND APPLICATION	
From 3 to 20 kilometres per hour	5 metres

CROP	STATE	DISEASE	RATE	CRITICAL COMMENTS
Canola	All States	Blackleg ( <i>Leptosphaeria maculans</i> )	375 to 450 mL/ha	Apply at the 4 to 6 leaf crop stage of blackleg susceptible varieties (blackleg ratings of MS or lower) or in situations of high blackleg risk (refer to <b>General Instructions – Disease control in Canola</b> ). Will reduce lodging and stem canker from blackleg. A follow up application may be required at green bud stage in high disease risk situations or where an effective blackleg seed treatment has not been used.
		Sclerotinia stem rot ( <i>Sclerotinia sclerotiorum</i> )		Apply CHALLENGER between 20 and 50% (full bloom) flowering. For best results apply as a preventative application at 20-30% flowering prior to significant disease expression (refer to <b>General Instructions – Disease control in Canola</b> ). Good coverage throughout the entire canopy is essential. Using a water rate at the higher end of the range (i.e. 100 L/ha for ground application and 30 L/ha for aerial application) will improve spray coverage. Apply the higher rate (450 mL/ha) under high disease pressure.

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

A MANDATORY NO-SPRAY ZONE IS REQUIRED FOR PROTECTION OF THE ENVIRONMENT. REFER TO RESTRAINTS.

**WITHHOLDING PERIODS**

Harvest - NOT REQUIRED WHEN USED AS DIRECTED

Grazing - DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 14 DAYS AFTER APPLICATION

**TRADE ADVICE**

Export of treated produce

Growers should note that MRLs or import tolerances do not exist in all markets for produce treated with CHALLENGER. If you are growing produce for export, please check with Farmalinx Pty Ltd for the latest information on MRLs and import tolerances before using CHALLENGER.

**GENERAL INSTRUCTIONS****Disease control in canola****Blackleg**

Higher blackleg risk can be expected in higher rainfall districts (above 500 mm annual

rainfall), where crops are grown within 500 m of a previous year's stubble and in later sown crops (May to August). Other factors will also increase the risk of blackleg infection, including the intensity of canola cropping in a district, rainfall before sowing and the frequency of growing the same canola cultivar. Consult industry guidelines for more detailed assessment of blackleg risk in specific situations. Up to two sprays of CHALLENGER may be applied per season to the crop.

**Sclerotinia**

CHALLENGER is most effective when application is made prior to conditions conducive to sclerotinia infection. Infection and disease development are most conducive in warmer winter or spring conditions with extended periods of leaf wetness due to rainfall, dew and high humidity. Sclerotinia is most likely to develop where day temperatures are warmer coinciding with a saturated soil profile and rainfall events. Refer also to industry

guidelines for advice on conditions under which sclerotinia are most likely to develop. Control of sclerotinia stem rot is more effective in crops which have a uniform flowering. Uneven flowering (e.g. caused by staggered germinations) makes optimum spray timing difficult and two sprays may be required in these crops.

Generally a single application of CHALLENGER at 20 to 30% flowering will control sclerotinia in crops with a short flowering interval. Crops with an extended flowering period may require a second application prior to 50% flowering (full-bloom) to adequately control sclerotinia if conditions late in the season are conducive to development of disease.

Length of protection may be reduced in bulky crops where coverage is difficult and where there is growth dilution of the fungicide. For optimum protection, application should be directed to obtain coverage on petals, leaves and stems.

**Mixing**

Prior to pouring, shake container vigorously, then add the required quantity of CHALLENGER to water in the spray vat with agitators in motion. Add the required amount of adjuvant if necessary and mix thoroughly.

**Application****Ground:**

Apply product using a spray volume of 60 – 100 L/ha and spray droplets not smaller than a MEDIUM spray droplet size category.

**Aerial:** Apply product using a minimum spray volume of 20 L/ha and spray droplets not smaller than a MEDIUM spray droplet size category.

**Compatibility**

For information on compatibility please contact Farmalinx Pty Ltd.

**USE OF ADJUVANT**

Adjuvant is not required for use of CHALLENGER on canola.

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**FUNGICIDE RESISTANCE WARNING**

Farmalinx CHALLENGER Fungicide is a member of the DMI group of fungicides. For fungicide resistance management the product is a Group 3 fungicide. Some naturally occurring individual fungi resistant to the product and other Group 3 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 product and other Group 3 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, Farmalinx Pty Ltd accepts no liability for any losses that result from failure of this product to control resistant fungi.

**FIRST AID**

If poisoning occurs, contact a Doctor or Poisons Information Centre. Phone Australia 13 11 26, New Zealand 0800 764 766.

**ADDITIONAL USER SAFETY WARNINGS**

**WARNING:** May cause birth defects.

**SDS**

Additional information is listed in the safety data sheet (SDS). A safety data sheet for Farmalinx CHALLENGER Fungicide is available from FARMALINX Pty Ltd on request. Call Customer Service on 02 9389 2455.

**CONDITIONS OF SALE:**

Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use. No warranty (other than non-excludable statutory warranties) of merchantability or fitness for a particular purpose, express or implied, extends to the use of product contrary to label instructions, or under off-label permits not endorsed by Farmalinx Pty Ltd or under abnormal conditions. Farmalinx Pty Ltd accepts no liability for any loss or damage arising from incorrect storage, handling or use.

**PRECAUTIONS****Re-entry Period**

Do not enter treated areas until the spray has dried, 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.

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

Very toxic to aquatic life. DO NOT contaminate streams, rivers, drains or waterways with the chemical or used containers. A spray drift minimisation strategy should be employed at all times. Spray drift may occur under adverse meteorological conditions or from certain spraying equipment. Do not allow spray to drift onto sensitive areas including, but not limited to, susceptible plants/crops, cropping land, pasture, natural streams, rivers, wetlands, waterways or human dwellings.

Integrated pest management – where IPM is practiced: Farmalinx CHALLENGER Fungicide may have adverse effects on some non-target beneficial insects such as predatory mites.

**STORAGE AND DISPOSAL**

Store in the closed, original container in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight.

Triple 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 to 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. Do not re-use empty container for any other purpose.

**SAFETY DIRECTIONS**

May irritate eyes. Avoid contact with eyes. When opening the container, mixing and loading and preparing spray, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), and elbow length chemical resistant gloves. When using the prepared spray, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing). Wash hands after use. After each day's use wash gloves, and contaminated clothing.

**CAUTION**  
KEEP OUT OF REACH OF CHILDREN  
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

FARMALINX  
**Challenger**

FUNGICIDE

ACTIVE CONSTITUENTS: 210 g/L PROTHIOCONAZOLE  
210 g/L TEBUCONAZOLE

GROUP	<b>3</b>	FUNGICIDE
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**For the control of Blackleg and Sclerotinia stem rot in canola.**

**IMPORTANT: THIS LEAFLET IS PART OF THE LABEL ATTACHED TO THE CONTAINER. READ THOROUGHLY BEFORE OPENING OR USING THIS PRODUCT.**

**farmalinx**

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