

POISON

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

Radial[®]

Fungicide

ACTIVE CONSTITUENTS:

75 g/L AZOXYSTROBIN

75 g/L EPOXICONAZOLE

SOLVENT: 200 g/L DIMETHYL SULFOXIDE

GROUP

3 | 11

FUNGICIDE

For the control of various diseases on wheat
and barley as per the Direction for Use

Distributed by



ADAMA

adama.com

CONTENTS: 1 L, 5 L, 10 L, 20 L, 60 L, 110 L

DIRECTIONS FOR USE

Restrictions:

DO NOT apply if heavy rains or storms that are likely to cause runoff are forecast within 48 hours of application.

DO NOT apply more than two applications of RADIAL[®] Fungicide per season.

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

SPRAY DRIFT RESTRAINTS

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 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 humidity; 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

Aerial and Ground Applications

DO NOT apply if there are aquatic or wetland areas including aquacultural ponds 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 the Aquatic Environment

Wind Speed Range at Time of Application	Downwind Mandatory No-Spray Zone	
FOR GROUND APPLICATIONS		
From 3 - 20 kilometres per hour	5 metres	
FOR AERIAL APPLICATIONS	Fixed-Wing	Helicopter
From 3 to 8 kilometres per hour	120 metres	80 metres
From 8 to 14 kilometres per hour	140 metres	120 metres
From 14 to 20 kilometres per hour	160 metres	120 metres

DO NOT apply if there are sensitive terrestrial areas including crops and native vegetation downwind from the application area and within the mandatory no-spray zones shown in Table 2 below.

Table 2 – No-Spray Zones for Protection of the terrestrial environment (non-target vegetation)

Wind Speed Range at Time of Application	Downwind Mandatory No-Spray Zone	
FOR AERIAL APPLICATIONS	Fixed-Wing	Helicopter
From 3 - 20 kilometres per hour	20 metres	20 metres

WARNING

DO NOT spray when conditions favour drift beyond the area intended for application. Conditions that may contribute to drift include thermal inversions, excessive wind speed, certain sprayer nozzle/pressure combinations, small spray droplet size etc.

CROP	DISEASE	RATE	CRITICAL COMMENTS
Wheat	Leaf Rust (<i>Puccinia recondita</i> , <i>Puccinia triticina</i>), Yellow Spot (<i>Pyrenophora tritici-repentis</i>), Septoria Nodorum Blotch (<i>Phaeosphaeria nodorum</i>), Stem Rust (<i>Puccinia graminis</i>), Stripe Rust (<i>Puccinia striiformis</i>), Septoria Tritici Blotch (<i>Mycosphaerella graminicola</i>)	420 - 840 mL/ha	Apply when conditions favour disease development and prior to development of high levels of disease in the crop. Aim to apply between stem elongation and complete ear emergence (Z32-59). Use the higher rate when disease is present on the top leaf or conditions are favourable for development during these stages of crop development. Regularly monitor the crop 3 - 4 weeks post-application. Repeat spraying may be required, particularly if infection occurs early.
	Powdery Mildew (<i>Blumeria graminis tritici</i>)		Apply at the first sign of the disease during the tillering stage (Z21-22). Regularly monitor the crop 3 - 4 weeks post-application. Apply a second spray if infection pressure persists.
Barley	Leaf Rust (<i>Puccinia hordei</i>), Leaf Scald (<i>Rhynchosporium secalis</i>), Net form of Net Blotch (<i>Pyrenophora teres</i> f. sp. <i>teres</i>), Spot form of Net Blotch (<i>Pyrenophora teres</i> f. <i>maculata</i>)		Apply when conditions favour disease development and prior to the development of high levels of disease in the crop. Aim to apply from jointing (Z30) if disease is present and/or if conditions favour disease development. Repeat spraying may be required, particularly if infection pressure persists. Regularly monitor the crop from 3 - 4 weeks after application for signs of re-infection. Use the higher rate when disease pressure is high. DO NOT apply later than Z59 as yield responses are unlikely.
	Powdery mildew (<i>Blumeria graminis</i> f. sp. <i>hordei</i>)		Apply at the first sign of the disease during the tillering stage (Z21-22). Regularly monitor the crop 3 - 4 weeks post-application. Apply a second spray if infection pressure persists prior. DO NOT apply later than Z59 as yield responses are unlikely.

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

WITHHOLDING PERIODS

Grazing: DO NOT GRAZE OR CUT FOR STOCK FEED FOR 6 WEEKS AFTER APPLICATION.

Harvest: DO NOT HARVEST FOR 6 WEEKS AFTER APPLICATION.

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

After observing the withholding period for grazing or cutting for stock food, livestock that have been grazed on or fed treated crops should be placed on clean feed for 7 days prior to slaughter.

GENERAL INSTRUCTIONS

Check the crop regularly for any symptoms of disease infection. Apply prior to or as soon as disease is present as indicated in the Directions for Use. The objective of spraying is to keep the upper 2 - 3 leaves, ear and stem green and functioning through grain filling. Economic responses may not be gained by spraying crops past flowering stage. Thorough coverage of the crop is necessary for best results.

APPLICATION

Mixing: Add the required quantity of RADIAL® Fungicide to water in the spray vat while stirring or with agitators in motion. Rinse the empty container with water and add rinsings to spray tank.

Ground Application: Apply in a water volume of between 50 and 100 L/ha using a medium quality spray. Use the higher water volume in crops with heavier canopies.

Aerial Application: Apply with suitable aircraft, set up and operated to apply fungicides to cereal crops in a water volume of between 20 and 30 L/ha using a medium quality spray. Use the higher water volume in crops with heavier canopies. Aircraft should fly as low as possible under the prevailing conditions to minimise drift.

FUNGICIDE RESISTANCE WARNING

RADIAL® Fungicide is a combination of a DMI and Quinone outside Inhibitors (QoIs) group of fungicides. For fungicide resistance management the product is both a Group 3 and a Group 11 fungicide. Some naturally occurring individual fungi resistant to the product and other Group 3 and/or Group 11 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 or other Group 3 and/or Group 11 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, Adama Australia accepts no liability for any losses that may result from the failure of RADIAL® Fungicide to control resistant fungi.

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COMPATIBILITY

For information on compatibility please contact your local reseller or Adama Australia representative.

PRECAUTION

Re-entry period: DO NOT enter treated areas for low exposure activities, such as irrigation and scouting, 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. DO NOT enter treated areas for medium exposure activities, such as hand weeding and machine harvesting, until day 7, 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 CROPS, NATIVE AND OTHER NON-TARGET PLANTS

DO NOT apply under weather conditions or from spraying equipment that may cause spray to drift onto nearby susceptible plants/crops, cropping lands or pastures.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

VERY TOXIC TO AQUATIC LIFE. DO NOT contaminate wetlands or watercourses with this product or used container.

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 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 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.

Envirodrum Micro Matic Valve (60 L, 110 L): Store the original sealed Envirodrum in a cool-well ventilated area. DO NOT store for prolonged periods in direct sunlight. DO NOT tamper with the Micro Matic valve or security seal. DO NOT contaminate the Envirodrum with water or any foreign matter. After each use of the product, please ensure that the Micro Matic coupler delivery system and hoses are disconnected, triple rinsed with clean water and drained accordingly. When the contents of the Envirodrum have been used, please return to the point of purchase. The Envirodrum remains the property of Adama Australia.

SAFETY DIRECTIONS

Will damage the eyes. May irritate the skin. Repeated exposure may cause allergic disorders. Avoid contact with eyes and skin. When opening the container, mixing and loading and preparing the spray, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and elbow-length chemical resistant gloves and face shield or goggles. When using the prepared spray wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and elbow-length chemical resistant gloves. If product on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use wash gloves and face shield or goggles and contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26.

SDS

Additional information is listed in the safety data sheet (SDS). A safety data sheet for RADIAL® Fungicide is available from adama.com or call Customer Service on 1800 423 262.

CONDITIONS OF SALE: The use of RADIAL® Fungicide being beyond the control of the manufacturer, no warranty expressed or implied is given by Adama Australia regarding its suitability, fitness or efficiency for any purpose for which it is used by the buyer, whether in accordance with the directions or not and Adama Australia accepts no responsibility for any consequence whatsoever resulting from the use of this product.

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NOT A DANGEROUS GOOD ACCORDING TO THE AUSTRALIAN DANGEROUS GOODS (ADG)