

READ SAFETY DIRECTIONS BEFORE OPENING OR USING



Spiral[®] 500

Liquid Seed Dressing Fungicide

**ACTIVE CONSTITUENT: 500 g/L PROCYMIDONE
(CONTAINS A DICARBOXIMIDE FUNGICIDE)**

For the control of brown leaf spot in Lupins.

DIRECTIONS FOR USE

RESTRAINT: DO NOT sow treated seed in poorly drained soil under cold wet conditions.

CROP	DISEASE CONTROLLED	STATE	APPLICATION RATE	CRITICAL COMMENTS
Lupins	Brown leaf spot (<i>Pleiochaeta setosa</i>)	NSW, Vic, SA only	100 or 200 mL per 100 kg of seed	Use the higher rate of application where severe disease is expected eg. High spore load from previous infected crops and where other disease control measures such as stubble retention are not practised. 100 mL Rate: Dilute with equal parts of product with three parts of water. 200 mL Rate: Dilute with an equal volume of water. Agitate diluted mixture thoroughly and apply at a rate of 400 mL of the mixture to 100 kg of seed. Agitate the mixture during the application to prevent settling. Mix the seed thoroughly during and immediately after application to ensure thorough coverage. This product will reduce the effectiveness of <i>Rhizobium</i> inoculum on seed. It will not reduce nodulation where adequate soil populations of <i>Rhizobium</i> persist from previous lupin crops where spray inoculation is practised.
		WA only	50, 100, 200 mL per 100 kg of seed	Use the higher rate of application where severe disease is expected eg. High spore load from previous infected crops and where other disease control measures such as stubble retention are not practised. Where low disease levels are expected and stubble retention is practised the low rate may be used if seed is to be sown immediately after treatment. If seed is to be treated after harvest and then stored until sowing next season, apply a minimum of 100 mL of SPIRAL 500 Liquid Seed Dressing Fungicide per 100 kg of seed. 50 mL Rate: Dilute one part of the product with seven and a half parts water. 100 mL Rate: Dilute one part of the product with three parts of water. 200 mL Rate: Dilute with an equal volume of water. Agitate diluted mixture thoroughly and apply at a rate of 400 mL of the mixture per 100 kg of seed. Agitate mixture during application to prevent setting. Mix seed thoroughly during and immediately after application to ensure through coverage. At the high rate of application this product will reduce the effectiveness of <i>Rhizobium</i> inoculum on seed. It will not reduce nodulation where adequate soil populations of <i>Rhizobium</i> persist from previous lupin crops.

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

WITHHOLDING PERIOD: DO NOT GRAZE OR CUT FOR STOCK FEED FOR 13 WEEKS AFTER PLANTING.



GENERAL INSTRUCTIONS

FUNGICIDE RESISTANCE WARNING

FARMOZ SPIRAL® 500 Liquid Seed

GROUP **B** FUNGICIDE

Dressing Fungicide is a member of the dicarboximide group of fungicides. For fungicide resistance management, SPIRAL 500 Liquid Seed Dressing Fungicide is a Group B fungicide.

Some naturally occurring individual fungi resistant to SPIRAL 500 Liquid Seed Dressing Fungicide and other Group B fungicides may exist through normal genetic variability in any fungal population. The resistant individuals can eventually dominate the fungi population if these fungicides are used repeatedly. These resistant fungi will not be controlled by SPIRAL 500 Liquid Seed Dressing Fungicide and other Group B 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, FARMOZ Pty. Ltd. accepts no liability for any losses that may result from the failure of this product to control resistant fungi.

MIXING

Add SPIRAL 500 Liquid Seed Dressing Fungicide to the required amount of water as detailed in "Critical Comments" and mix thoroughly. DO NOT mix with alkaline water. Maintain agitation to prevent settling during treatment of seed. Slowly add 400 mL of the mixture to 100 kg of seed and mix thoroughly to ensure even cover.

Settling of this product may occur after storage for several weeks. Stir, shake, roll or invert container to improve uniformity before opening.

APPLICATION

WARNING: Soil Persistence of SPIRAL 500 Liquid Seed Dressing Fungicide can be reduced under alkaline soil conditions.

Where an inoculum is to be used, apply inoculum in the paddock using spray inoculation methods. Refer to Department of Agriculture (NSW) 'AGFACT' P4, 1.2: SPRAY INOCULATING GRAIN LEGUMES, or contact local State Department of Agriculture offices for further information.

NOTE: Spray inoculation has proved unsatisfactory in WA and is not recommended.

PRECAUTIONS

Seed treated with SPIRAL 500 Liquid Seed Dressing Fungicide must not be used for animal consumption or allowed to contaminate grain intended for animal consumption. Grain should not be left EXPOSED on the ground (particularly during sowing). Treated seed may not be held over for sowing the following season. (Any seed not intended to be used for sowing should be destroyed.)

PROTECTION OF LIVESTOCK, WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DO NOT feed or expose treated grain to wildlife and domestic animals, particularly birds.

DO NOT contaminate streams, rivers or waterways with the chemical or used container or containers, which have held treated seed.

STORAGE AND DISPOSAL

KEEP OUT OF REACH OF CHILDREN.

Seed treated with this product must not be used for human consumption or allowed to contaminate grain intended for human consumption. Treated seed when stored should be kept apart from other grain and the containers should be clearly marked to indicate the contents have been treated with this product. Containers, which have held treated seed, should not be used for any other purpose.

Store in the closed original container in a well-ventilated areas, as cool as possible. 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 bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

For refillable containers, empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

SAFETY DIRECTIONS

Avoid contact with eyes and skin. DO NOT inhale spray mist. Wash hands after use.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre on 131126.

MSDS

Additional information is listed in the material safety data sheet (MSDS). A material safety data sheet for SPIRAL 500 is available from FARMOZ on request. Call Customer Service on (02) 9363 3611.

CONDITIONS OF SALE: The use of FARMOZ SPIRAL 500 Liquid Seed Dressing Fungicide being beyond the control of the manufacturer, no warranty expressed or implied is given by FARMOZ Pty. Ltd., 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 FARMOZ Pty. Ltd. accepts no responsibility for any consequence whatsoever resulting from the use of this product.

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PACK SIZE: 5 L, 20 L, 110 L, 200 L

