

POISON

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Impact[®] Endure

In-Furrow and Foliar Fungicide

ACTIVE CONSTITUENT: 500 g/L FLUTRIAFOL

GROUP

3

FUNGICIDE

For the control of certain fungal diseases on wheat, barley and canola when mixed with fertiliser or applied as a foliar spray as per the Directions for Use Table.

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CONTENTS: 10, 110, 200, 1000 L

DIRECTIONS FOR USE

A. IMPACT ENDURE APPLIED IN-FURROW AS A FERTILISER TREATMENT

CROP	DISEASE	RATE /HA	WHP	CRITICAL COMMENTS																
Canola	Blackleg (<i>Leptosphaeria maculans</i>)	200 mL	4 weeks Grazing	Treatment will reduce blackleg infection in both susceptible and tolerant canola varieties. Application: Spray undiluted product evenly onto granulated fertiliser and immediately mix thoroughly in a mechanical mixer or auger. Apply at a rate which will deposit 200 mL of the product on the quantity of fertiliser required to be sown in furrow per hectare, using the table below as a guide. <table border="1"> <thead> <tr> <th>Fertiliser rate per hectare (kg)</th> <th>Volume of product per 100 kg of fertiliser (mL)[†]</th> </tr> </thead> <tbody> <tr> <td>60</td> <td>333</td> </tr> <tr> <td>70</td> <td>286</td> </tr> <tr> <td>80</td> <td>250</td> </tr> <tr> <td>100</td> <td>200</td> </tr> <tr> <td>120</td> <td>167</td> </tr> </tbody> </table>	Fertiliser rate per hectare (kg)	Volume of product per 100 kg of fertiliser (mL) [†]	60	333	70	286	80	250	100	200	120	167				
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Wheat	Stripe Rust (<i>Puccinia striiformis</i>)	100 or 200 mL	4 weeks Grazing	For control of stripe rust of wheat and control of powdery mildew and scald of barley, use the high rate where conditions conducive to severe disease are expected. Where the Wheat variety may be susceptible to Stripe rust and depending on paddock history, a decision should be made to determine the suitable rate of application. These applications will allow control of stripe rust for up to 105 days after sowing. Application: Spray product evenly onto granulated fertiliser and immediately mix thoroughly in a mechanical mixer or auger. Apply at a rate which will deposit the specific rate of the product on the quantity of fertiliser required to be sown in-furrow per hectare, using the table below as a guide. <table border="1"> <thead> <tr> <th>Fertiliser rate per hectare (kg)</th> <th>Volume of product per 100 kg of fertiliser (mL)[†]</th> </tr> </thead> <tbody> <tr> <td>50</td> <td>200</td> </tr> <tr> <td>60</td> <td>167</td> </tr> <tr> <td>70</td> <td>143</td> </tr> <tr> <td>80</td> <td>125</td> </tr> <tr> <td>100</td> <td>100</td> </tr> <tr> <td>120</td> <td>84</td> </tr> </tbody> </table>	Fertiliser rate per hectare (kg)	Volume of product per 100 kg of fertiliser (mL) [†]	50	200	60	167	70	143	80	125	100	100	120	84		
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	Septoria Tritici Blotch (<i>S. tritici</i>) Take-all (<i>Gaeumannomyces graminis</i>)	200 mL																		
Barley	Powdery Mildew (<i>Erysiphe graminis</i>)	100 or 200 mL		<table border="1"> <thead> <tr> <th>Fertiliser rate per hectare (kg)</th> <th>Volume of product per 100 kg of fertiliser (mL)[†]</th> </tr> </thead> <tbody> <tr> <td></td> <td>100 mL rate 200 mL rate</td> </tr> <tr> <td>50</td> <td>200 400</td> </tr> <tr> <td>60</td> <td>167 333</td> </tr> <tr> <td>70</td> <td>143 286</td> </tr> <tr> <td>80</td> <td>125 250</td> </tr> <tr> <td>100</td> <td>100 200</td> </tr> <tr> <td>120</td> <td>84 167</td> </tr> </tbody> </table>	Fertiliser rate per hectare (kg)	Volume of product per 100 kg of fertiliser (mL) [†]		100 mL rate 200 mL rate	50	200 400	60	167 333	70	143 286	80	125 250	100	100 200	120	84 167
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	Scald (<i>Rhynchosporium secalis</i>)																			

[†] Where application volume is below 250 mL per 100 kg of fertiliser, product may be diluted with water to improve coverage.

B. IMPACT ENDURE APPLIED AS A FOLIAR SPRAY

CROP	DISEASE	RATE /ha	WHP	CRITICAL COMMENTS
Wheat	Stripe Rust (<i>Puccinia striiformis</i>)	125 mL – 250 mL	7 weeks Harvest or Grazing	Apply when stripe rust appears and before disease reaches 1% of leaf area. The high rate of application gives a longer period of protection than the low rate. In crops with high yield potential, and where conditions favourable to severe disease persist, use a single application at the higher rate, or two applications 3 - 4 weeks apart at the low rate.
	Leaf Rust (<i>P. recondita</i>) Septoria Nodorum Blotch (<i>Septoria nodorum</i>) Septoria Tritici Blotch (<i>S. tritici</i>)	Ground Application Apply in 100 – 150 L water plus 200 mL of 1000 g/L agricultural wetting agent per 100 L of spray solution.		Apply after flag leaves have begun to emerge and before disease reaches 1% of flag leaf area. The high rate of application gives a longer period of protection than the low rate. In crops with high yield potential, and where conditions favourable to severe disease persist during flowering, use a single application at the higher rate, or two applications 3 - 4 weeks apart at the low rate.
Barley	Powdery Mildew (<i>Erysiphe graminis</i>)		10 weeks Harvest or Grazing	Apply when powdery mildew first appears. The high rate of application gives a longer period of protection than the low rate. Where conditions favourable to severe disease persist, a single application at the higher rate, or two applications 3 - 4 weeks apart at the low rate, may be required.

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

WITHHOLDING PERIODS

A. APPLIED IN-FURROW AS A FERTILISER TREATMENT

CANOLA, WHEAT AND BARLEY - DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 4 WEEKS AFTER SOWING.

B. APPLIED AS A FOLIAR SPRAY

DO NOT HARVEST EARLIER THAN THE NUMBER OF WEEKS SHOWN AFTER APPLICATION:

BARLEY - 10 WEEKS

WHEAT - 7 WEEKS

DO NOT GRAZE OR CUT FOR STOCK FOOD EARLIER THAN THE NUMBER OF WEEKS SHOWN AFTER APPLICATION:

BARLEY - 10 WEEKS

WHEAT - 7 WEEKS

GENERAL INSTRUCTIONS

FUNGICIDE RESISTANCE WARNING

GROUP	3	FUNGICIDE
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Impact Endure In-Furrow and Foliar Fungicide is a member of the DMI group of fungicides. For fungicide resistance management Impact Endure In-Furrow and Foliar Fungicide is a Group 3 fungicide. Some naturally occurring individual fungi resistant to Impact Endure and other Group 3 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 Impact Endure or 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, Cheminova Pty Ltd accepts no liability for any losses that may result from the failure of Impact Endure to control resistant fungi. Resistance should not be assumed without first reviewing the method of application, the coverage and the timing of application.

FERTILISER APPLICATION

Ensure that treated fertiliser is dry before sowing with the crop.

Sowing: Treated fertiliser should be sown in the same furrow as the seed, not broadcast. Note that the flow rate of fertiliser may be changed after treatment, and the seeder should be calibrated with the treated material to ensure that the correct rates of fertiliser and fungicide are delivered.

Do not mix seed with treated fertiliser.

FOLIAR APPLICATION

Check the crop carefully and regularly. Spray only if there is sufficient time in the season for the rust to develop to a level on the variety in question when it will cause significant yield loss.

Aerial Application

Aerial application MUST BE carried out with closed mixing / loading.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DO NOT contaminate streams, rivers or waterways with the chemical or used containers.

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 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

Harmful if inhaled. May irritate the eyes and skin. Repeated exposure may cause allergic disorders. Avoid contact with eyes and skin. Do not inhale vapour or spray mist. When preparing the product for use and using the product, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and elbow-length chemical resistant gloves and half facepiece respirator. When mixing and loading for aerial application, wear cotton overalls, over normal clothing, buttoned to the neck and wrist, and elbow-length chemical resistant gloves. Wash hands after use. After each day's use, wash gloves, respirator and if rubber wash with detergent and warm water, and contaminated clothing.

RE-ENTRY

- DO NOT enter treated areas until the spray has dried for low exposure activities (such as irrigation, scouting, thinning, weeding immature / low foliage 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.
- DO NOT enter treated areas for 3 days for medium exposure activities (such as weeding mature/high foliage 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.
- DO NOT enter treated areas for 8 days for high exposure activities (such as hand harvesting), 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.

FIRST AID

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

SAFETY DATA SHEET

Additional information is listed in the Safety Data Sheet available from www.cheminova.com.au.

WARNING

This product must be used, handled and stored strictly as directed in accordance with this label, packaging and other reference material ("Directions"). To the extent permitted by law Cheminova Pty Ltd and its related companies will have no liability for any injury, loss or damage arising from a failure to follow the Directions.

APVMA Approval No: 63183/55121

Batch no:

Date of Manufacture:

140307-T

Bar Code

Drummuster logo (where appropriate for pack size)

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<p>FOR 24 HOUR SPECIALIST ADVICE IN EMERGENCY ONLY PHONE 1800 033 111</p>
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