



ADVICE SUMMARY

APPLICATION FOR VARIATION OF A REGISTERED CHEMICAL PRODUCT

Product name: VIBRANCE FUNGICIDE SEED TREATMENT
Applicant: SYNGENTA AUSTRALIA PTY LTD
Product number: 64098
Application number: 59105

Purpose of Application and Description of Use: Variation of registration and label approval to extend the use to include suppression of fusarium head blight and white grain in wheat and triticale, and lower the application rates for control of smuts and suppression of Rhizoctonia in barley.

Active Constituent(s): DIFENACONAZOLE
METALAXYL-M
SEDAXANE

Regulatory Decision:

To grant the application subject to the following conditions:

Standard Conditions of Label Approval

1. Label must contain a Date of Manufacture and Batch Number

For full conditions, refer to the Conditions of Product Label Approval on the APVMA website.

ADVICE

State/External Efficacy Reviewer

The results of 31 field, laboratory, and glasshouse pot trials were presented to demonstrate the efficacy and safety of the proposed product and the active ingredients comprising the proposed product fungal diseases in wheat, barley, and triticale.

The majority of trial designs were randomised complete block with a small number using split-plot factorial designs appropriate to the objectives of the study. The field trials were conducted in New South Wales, Victoria, Western Australia, South Australia, and Tasmania, representative of a broad range of climate and geographic locations where the product would likely be used. Laboratory and glasshouse trials from overseas (Switzerland) were also submitted. In most cases, moderate to high levels of target diseases were present. Formulations, rates, application timings, and modes of application were representative of proposed label directions. All data were analysed statistically (primarily by analysis of variance) with LSD values generated at a significance level of 5%.

Control rates of covered and loose smut in barley were greater than 90%, and of fusarium head blight and white grain in wheat/triticale was up to 100%. Application of the proposed product significantly reduced the incidence of Rhizoctonia root rot in barley, when applied at the proposed label rate. There was no phytotoxicity detected in any trial.

The APVMA accepts the advice of the efficacy reviewer, and is satisfied that the proposed product should be safe and effective when used according to the proposed label instructions.

Data relied on to provide the advice

Data No	Data Source*	Author(s)	Title	Date	Data Type	Data Sub-type	Authorising Party	Inherited Application No.
73109	S	Bowden R	Effect of seed treatments on wheat stands and yield	1995	Efficacy and safety	Efficacy	Applicant	
73110	S	Butt M. and Wallwork H.	Reports on 2001 efficacy trials for Syngenta Crop Protection.	2001	Efficacy and safety	Efficacy	Prev Sub, Not Protected	
73111	S	Butt M. and Wallwork H.	Reports on 2002 efficacy trials for Syngenta Crop Protection	2002	Efficacy and safety	Efficacy	Prev Sub, Not Protected	
73117	S	Klein T	Reports on 2012 efficacy trials for Syngenta Crop Protection	2012	Efficacy and safety	Efficacy	Applicant	

Data No	Data Source*	Author(s)	Title	Date	Data Type	Data Sub-type	Authorising Party	Inherited Application No.
73121	S	Lowe G.	Efficacy and safety of SYN524464 in the control of Rhizoctonia in barley	August 2008	Efficacy and safety	Efficacy	Applicant	
73123	S	Northern Growers Alliance	Reports on 2011 efficacy trials for control of seed borne diseases	2011	Efficacy and safety	Efficacy	Applicant	
73124	S	Porter R.	Evaluation of SYN524464 100FS alone and in combination with Dividend 115 FS in comparison to Dividend 115 FS, Jockey 167FS, Baytan T 150FS and Dividend 115 FS plus A-12050-B 100 FS for the control of Rhizoctonia (<i>Rhizoctonia</i> sp) in barley Sloop Vic. Wards Hill via Wokurna, South Australia 2007.	08 July 2008	Efficacy and safety	Efficacy	Applicant	
73127	S	Smiley R.	Effect of seed treatments and starter fertilizer on root diseases and yield of spring wheat	1997	Efficacy and safety	Efficacy	Applicant	
73128	S	Steck B.	To test Stage 3 and Stage 4 seed treatments for efficacy against seedborne <i>F. graminearum</i> on wheat to test efficacy of 267356 (seed tray test)	1992	Efficacy and safety	Efficacy	Applicant	
73129	S	Steck B.	Winter Wheat: to evaluate the activity of CGA173506, CGA142705 and CGA169374 in a field test	1993	Efficacy and safety	Efficacy	Applicant	
73130	S	Steck B.	Wheat: activity of fludioxonil and difenoconazole (US formulations) against <i>F. graminearum</i> (seed born infection) compared to US competitor products	1996	Efficacy and safety	Efficacy	Applicant	
73133	S	Sumner M	Comparison of SYN 524464 100FS, Apron XL 350 ES, Dividend 115 FS, Jockey 167FS and Zorro 236 FS seed treatments for control of rhizoctonia root rot (<i>Rhizoctonia solani</i>) in wheat cv. Westonia. Cunderdin, Western Australia, 2009	26 April 2012	Efficacy and safety	Efficacy	Applicant	
73134	S	Sumner M. and Eastwood T.	Comparison of SYN 524464 100FS, A16874-F 088 FS and A-17531-A 062 FS with Dividend 115FS and Raxil T 025 FS, for control of bunt (<i>Tilletia laevis</i> and <i>T. tritici</i>) in wheat cv Eradu, Toodyay, Western Australia, 2009	01 March 2010	Efficacy and safety	Efficacy	Applicant	

Data No	Data Source*	Author(s)	Title	Date	Data Type	Data Sub-type	Authorising Party	Inherited Application No.
81549	S	Bywater T.	Comparison of seed treatments for the control of <i>Rhizocotonia solani</i> in wheat cv. H45. Devonport, Tasmania, 2010	27 July 2011	Efficacy and safety	Efficacy	Applicant	
81550	S	Bywater T.	Comparison of seed treatments for the control of <i>Rhizocotonia solani</i> in barley cv. Gairdner Devonport, Tasmania, 2010	27 July 2011	Efficacy and safety	Efficacy	Applicant	
81551	S	Bywater T.	Comparison of seed treatments for the control of Pythium root rot (<i>Pythium irregulare</i>) in barley cv. Gairdner. Devonport, Tasmania, 2010.	27 July 2011	Efficacy and safety	Efficacy	Applicant	
81552	S	Jenkinson R.	Vibrance - Yield and competitor comparison, Hyden, WA 2012.	2013	Efficacy and safety	Efficacy	Applicant	
81553	S	Porter R.	Comparison of A16874F 088FS and A17511B 085FS with industry standards for the control of loose smut (<i>Ustilago nuda</i> var <i>tritici</i>) in barley cv. Stirling. Roseworthy, South Australia, 2010.	08 February 2011	Efficacy and safety	Efficacy	Applicant	
81554	S	Pung H and Cross S.	Comparison of A-16874-F, A-17511-B and A-16148-C against Apron XL, Dividend and Penflufen as seed treatments for control of Pythium damping off in wheat cv Forrest. Devonport, Tasmania, 2012	08 February 2012	Efficacy and safety	Efficacy	Applicant	
73108	S	Barnes G. and Quinn M.	Evaluation of SYN524464 FS addition to Apron XL350 ES and Dividend 115 FS for the control of Rhizoctonia (<i>Rhizoctonia solani</i>) in wheat cv Whistler. Bunnaloo, NSW 2008.	06-02-2009	Efficacy and safety	Efficacy	SYNGENTA AUSTRALIA PTY LTD	
73112	S	Butt M. and Wallwork H.	Reports on 2007 efficacy trials for Syngenta Crop Protection	December 2007	Efficacy and safety	Efficacy	SYNGENTA AUSTRALIA PTY LTD	
73113	S	Butt M. and Wallwork H.	Reports on fungicide efficacy trials for Syngenta Crop Protection 2008	December 2008	Efficacy and safety	Efficacy	SYNGENTA AUSTRALIA PTY LTD	
73114	S	Butt M. and Wallwork H.	Reports on fungicide efficacy trials for Syngenta Crop Protection 2009	December 2009	Efficacy and safety	Efficacy	SYNGENTA AUSTRALIA PTY LTD	

Data No	Data Source*	Author(s)	Title	Date	Data Type	Data Sub-type	Authorising Party	Inherited Application No.
73115	S	Grimm A. and Ingram B	Comparison of seed treatments for the control of <i>Rhizoctonia solani</i> in barley cv Gairdner	11 March 2010	Efficacy and safety	Efficacy	SYNGENTA AUSTRALIA PTY LTD	
73116	S	Ingram B.	Comparison of seed treatments for the control of <i>Rhizoctonia solani</i> in wheat cv Brennan.	11 March 2010	Efficacy and safety	Efficacy	SYNGENTA AUSTRALIA PTY LTD	
73118	S	Lonsdale D	SYN524464: Rhizoctonia control in wheat & barley (Bare patch). Elmore Victoria	08 February 2010	Efficacy and safety	Efficacy	SYNGENTA AUSTRALIA PTY LTD	
73119	S	Amos N.	Evaluation of the efficacy and crop safety of SYN524464 for the control of Rhizoctonia barepatch (<i>Rhizoctonia solani</i>) in wheat.	December 2008	Efficacy and safety	Efficacy	SYNGENTA AUSTRALIA PTY LTD	
73120	S	Lonsdale D	SYN524464: Rhizoctonia control in wheat & barley (Bare patch). Elmore Victoria	09 February 2010	Efficacy and safety	Efficacy	SYNGENTA AUSTRALIA PTY LTD	
73125	S	Seidel J.	Evaluation of Dividend 115 FS, SYN524464 100 FS, Raxil T 025 FS and Premis Protect 025 FS for the control of loose/covered smut (<i>Ustilago segetum</i> var. <i>hordei</i> and <i>U. avenae</i>) in oats cv. Yarran. Walla Walla, NSW, 2007	18 February 2008	Efficacy and safety	Efficacy	SYNGENTA AUSTRALIA PTY LTD	
73131	S	Sumner M	Comparison of SYN524464 100 FS with Dividend 115 FS, Jockey 167FS, Raxil T 025 FS and Baytan T 150 FS seed treatments for the control of seed-borne loose smut (<i>Ustilago nuda</i>) in barley cv Stirling. Toodyay, Western Australia, 2008	06 May 2009	Efficacy and safety	Efficacy	SYNGENTA AUSTRALIA PTY LTD	
73132	S	Sumner M	Comparison of SYN 524464 100FS, A16874-F 088 FS and A-17531-A 062 FS with Dividend 115FS and Raxil T 025 FS, for control of soil-borne flag smut (<i>Urocystis agropyri</i>) in wheat cv. Eradu. Toodyay, Western Australia, 2009	28 January 2010	Efficacy and safety	Efficacy	SYNGENTA AUSTRALIA PTY LTD	

* S = Data submitted with the application