

Evaluation Report for B, Subcategory 3.9, 3.10 Application

Application Number: 2022-0385
Application: New or Changes to Product Labels – Level of control, tank mixes
Product: Rancona Trio Fungicide
Registration Number: 32668
Active ingredients (a.i.): Ipconazole, carbathiin and metalaxyl
PMRA Document Number: 3363854

Background

Rancona Trio Fungicide is a broad-spectrum seed treatment fungicide containing ipconazole, carbathiin and metalaxyl as the active ingredients. It is registered for use on cereal grains (barley, wheat, oat, rye and triticale), and legumes (dry pea, dry bean, faba bean, lentil, chickpea and soybean) to control or suppress various seed, seedling and soil-borne fungal diseases.

Purpose of Application

The purpose of this application is to upgrade the claim for early season aphanomyces root rot (*Aphanomyces euteiches*) on dry pea and lentil from suppression to control with a tank mix of Rancona Trio Fungicide with Intego Solo Fungicide or Belmont 2.7 FS Fungicide (for dry pea only).

Chemistry, Health and Environmental Assessment

A chemistry assessment was not required since there was no change to product chemistry. Health and environment assessments were not required since the use pattern, including host crop, application rates and timings, of the component product remained unchanged.

Value Assessment

Results from four field trials conducted in Alberta in 2018 - 2021 were reviewed in support of the proposed tank mix claims. In addition, the applicant also submitted the results from four *in vitro* studies in support of the proposed label amendments. The efficacy results from field trials confirmed that a tank mixture of Rancona Trio Fungicide with Intego Solo Fungicide on dry pea and lentil, or a tank mixture of Rancona Trio Fungicide with Belmont 2.7 FS Fungicide on dry pea controlled aphanomyces root rot during plant emergence and early crop establishment in fields under low disease pressure. In the *in vitro* studies, the tank mix of Rancona Trio Fungicide and Intego Solo Fungicide demonstrated the highest efficacy against root damage caused by *Aphanomyces euteiches*, resulting in increased root weights when compared to the other treatments.

The registration of these new tank mix uses will provide Canadian pulse growers with a new tool to manage this important disease. The tank mix uses are expected to improve the level of control of aphanomyces root rot on dry pea and lentil.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided in support of the new tank mixes, and has found the information sufficient to upgrade the claim for early season root rot (*Aphanomyces euteiches*) on dry pea and lentil from suppression to control with tank mixes of Rancona Trio Fungicide with Intego Solo Fungicide or Belmont 2.7 FS Fungicide.

References

- 3314372 2022, Summary of Value for Early Season Root Rot caused by *Aphanomyces euteiches* on Lentils and Dry Peas to be Upgraded to Control on the Rancona Trio Fungicide Label, DACO: 10.1,10.2.1,10.2.2,10.2.3.1,10.2.3.2(D),10.2.3.3(D),10.3.2,10.3.3,10.4,10.5,10.5.1, 10.5.2,10.5.3,10.5.4
- 3314374 2017, Getting to the Root of Aphanomyces and Root Rot Pathogens, DACO: 10.2.2
- 3314375 2018, Efficacy of F1179 on Aphanomyces Root Rot in Field Peas, DACO: 10.2.3.3(D)
- 3314376 2019, General Efficacy of F2419aa Compared to Industry Products on Pulses., DACO: 10.2.3.3(D)
- 3314377 2021, F2419aa / Pea / Efficacy., DACO: 10.2.3.3(D)
- 3314378 2021, F2419aa / Lentil / Efficacy., DACO: 10.2.3.3(D)
- 3314379 2021, F2419aa Seed Trt / Pea (Petri Dish) / *Aphanomyces*, DACO: 10.2.3.2(D)
- 3314380 2021, F2419aa / Efficacy *Aphanomyces* (low 1x) / Pea., DACO: 10.2.3.2(D)
- 3314381 2021, F2419aa / Efficacy *Aphanomyces* (high 2x) / Pea., DACO: 10.2.3.2(D)
- 3314382 2021, F2419aa / Pea / Efficacy., DACO: 10.2.3.2(D)

© Her Majesty the Queen in Right of Canada, as represented by the Minister of Health Canada, 2022

All rights reserved. No part of this information (publication or product) may be reproduced or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, or stored in a retrieval system, without prior written permission of Health Canada, Ottawa, Ontario K1A 0K9.