

Evaluation Report for Category L, Subcategory 1.2 Application

Application Number: 2021-5911
Application: Submission subject to the Protection of Proprietary Interests in Pesticide Data (PIIP) policy - Equivalency/Data Compensation Assessment
Product: RYNO-A
Registration Number: 35005
Active ingredient (a.i.): Chlorantraniliprole
PMRA Document Number: 3429145

Purpose of Application

The purpose of this application was to register a commercial end-use product, RYNO-A, for the control of insects in various greenhouse and field food and feed crops, based on a precedent product.

Chemistry Assessment

RYNO-A is formulated as a suspension containing chlorantraniliprole at a concentration of 200 g/L. This end-use product has a density of 1.05 – 1.11 g/mL and pH of 7.5 – 8.5. The required chemistry data for RYNO-A have been provided, reviewed and found to be acceptable.

Health Assessments

RYNO-A is of low acute toxicity via the oral, dermal and inhalation routes of exposure. It is non-irritating to the skin and minimally irritating to the eyes, and is not a dermal sensitizer.

The use pattern of RYNO-A, containing chlorantraniliprole, is comparable to the registered use pattern of the precedent product. Therefore, potential exposure for mixers, loaders, applicators, bystanders and postapplication workers is not expected to exceed the current exposure to the registered product of this active ingredient. No health risks of concern are expected for workers and bystanders when label directions, precautions and restrictions are followed.

No new residue data for chlorantraniliprole were submitted or are required to support the registration of RYNO-A. Previously reviewed residue data were re-assessed in the framework of this application.

The use directions on the RYNO-A label, including the target crops, method, rates and timing of application, spray volumes and preharvest intervals, are comparable to those on the label of the precedent product.

Based on this assessment, residues are not expected to be greater than those from the currently registered uses and will be covered by the established maximum residue limits (MRLs). Consequently, dietary exposure to residues of chlorantraniliprole is not expected to increase with the registration of RYNO-A, and will not pose health risks of concern to any segment of the population, including infants, children, adults and seniors.

Environmental Assessment

The uses on the RYNO-A label are within the currently registered use pattern of the active ingredient, chlorantraniliprole. Therefore, no additional risk is expected when RYNO-A is used in accordance with the label, which includes statements to mitigate risks to the environment.

Value Assessment

RYNO-A has been shown to be biologically equivalent to a similar product based on a comparison of product formulations. All uses registered on the label of the precedent product are supported for extrapolation to the RYNO-A label. The registration of RYNO-A will provide growers with an alternative product for use to manage important insect pests.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information acceptable to support the registration of RYNO-A.

References

PMRA

Document

Number	Reference
3285496	2019, Determination of Storage Stability and Physical Chemical Properties of Chlorantraniliprole 200 SC stored at 54 C for 14 days and 0 C for 7 days, DACO: 3.4.1,3.5.1,3.5.10,3.5.11,3.5.14,3.5.2,3.5.6,3.5.7,3.5.9 CBI
3285503	2019, Quantification of Active Ingredient in Formulation Product Chlorantraniliprole 200 SC, DACO: 3.4.1 CBI
3285504	2019, Odor test on CHLORANTRANILIPROLE 200 SC, DACO: 3.5.3 CBI
3285505	2019, Explosive properties of liquids on CHLORANTRANILIPROLE 200 SC, DACO: 3.5.12 CBI
3285506	2019, Oxidising properties of liquids on CHLORANTRANILIPROLE 200 SC, DACO: 3.5.8 CBI
3285507	2019, Auto-ignition temperature of liquids test on CHLORANTRANILIPROLE 200 SC, DACO: 3.5.11 CBI
3285511	2021, ADM.00900.I.1.C_FSD_Chlorantraniliprole 200 SC, DACO: 3.3.1 CBI
3285512	2021, Chemistry-3.1.1-4, 3.2.1, 3.2.3, 3.5.4-5, 3.5.13, 3.5.15-29oct2021, DACO: 3.1.1,3.1.2,3.1.3,3.1.4,3.2.1,3.2.3 CBI
3285525	2021, Formulation Process -Ryno A, DACO: 3.2.2 CBI
3285502	2020, Acute Oral Toxicity Study of Chlorantraniliprole 200 SC in Rats, DACO: 4.6.1
3285501	2020, Acute Dermal Toxicity Study of Chlorantraniliprole 200 SC in Rats, DACO: 4.6.2
3285500	2020, Acute Inhalation Toxicity Study of Chlorantraniliprole 200 SC in Rats, DACO: 4.6.3
3285498	2020, Acute Eye Irritation Study of Chlorantraniliprole 200 SC in Rabbits, DACO: 4.6.4
3285499	2020, Acute Dermal Irritation Study of Chlorantraniliprole 200 SC in Rabbits, DACO: 4.6.5
3285497	2020, Skin Sensitization Study of Chlorantraniliprole 200 SC by Local Lymph node Assay in Mice, DACO: 4.6.6

© His Majesty the King in Right of Canada, as represented by the Minister of Health Canada, 2023

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.