

Evaluation Report for Category L, Subcategory 1.2 Application

Application Number: 2021-3478

Application: Submission subject to the Protection of Proprietary Interests in

Pesticide Data (PPIP) policy - Equivalency/Data Compensation

Assessment

Product: Lier Speed Desiccant Diquat 240

Registration Number: 34940

Active ingredients (a.i.): Diquat, present as dibromide

PMRA Document Number: 3428819

Purpose of Application

The purpose of this application was to register a commercial end-use product, Lier Speed Desiccant Diquat 240, for desiccation of pulse, oilseed, and legume forage seed crops, control of corn spurry in oats, and weed control in various vegetable and field crops and in non-cropland, based on a precedent product.

Chemistry Assessment

Lier Speed Desiccant Diquat 240 is formulated as solution containing diquat, present as dibromide, at a concentration of 240 g/L. This end-use product has a density of 1.23 g/mL and pH of 4.90. The required chemistry data for Lier Speed Desiccant Diquat 240 have been provided, reviewed and found to be acceptable.

Health Assessments

Lier Speed Desiccant Diquat 240 was considered toxicologically equivalent to the precedent product; therefore, no toxicology data were required. Lier Speed Desiccant Diquat 240 is considered to be of moderate acute toxicity via the oral, of low acute toxicity via dermal, and of slight acute toxicity via inhalation routes. It is also considered to be minimally irritating to the eyes, mildly irritating to the skin, and not a potential dermal sensitizer.

The use pattern of Lier Speed Desiccant Diquat 240 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 products 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 diquat, present as dibromide, were submitted or are required to support the registration of Lier Speed Desiccant Diquat 240. Previously reviewed residue data were reassessed in the framework of this application.



The use directions on the Lier Speed Desiccant Diquat 240 label, including the target crops, method, rates and timing of application, preharvest intervals, and crop rotation restrictions 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 diquat, present as dibromide, is not expected to increase with the registration of Lier Speed Desiccant Diquat 240 and will not pose health risks of concern to any segment of the population, including infants, children, adults and seniors.

Environmental Assessment

The proposed registration of Lier Speed Desiccant Diquat 240 for desiccation of pulse, oilseed, and legume forage seed crops, the control of corn spurry in oats, and weed control in various vegetable and field crops and in non-cropland does not pose any additional risk to the environment when used according to the label.

Value Assessment

Registration of a generic product may increase product competition, which may in turn reduce purchasing costs of similar products.

The formulation of Lier Speed Desiccant Diquat 240 was compared to the formulation of the precedent product. The differences between the two formulations were considered minor, which are unlikely to result in any significant impact on product performance, in terms of efficacy and/or crop tolerance. Therefore, the uses and claims found on the precedent product label are supported for inclusion on the Lier Speed Desiccant Diquat 240 label.

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 Lier Speed Desiccant Diquat 240.

References

PMRA	Reference
Document	
Number	
3254273	2021, Impurities of toxicological concern, DACO: 3.2.3
3254274	2017, Enforcement analytical method, DACO: 3.4.1
3254275	2021, Impurities of toxicological concern, DACO: 3.4.2
3254276	2017, Physical state, color and odor, DACO: 3.5.1,3.5.2,3.5.3
3254277	2021, Formulation type, DACO: 3.5.4
3254278	2021, Container material and description, DACO: 3.5.5
3254281	2017, Oxidizing or reducing action, DACO: 3.5.8
3254282	2018, Storage Stability, DACO: 3.5.10
3254283	2017, Flammability, DACO: 3.5.11
3254284	2021, Explodability, DACO: 3.5.12
3254285	2021, Miscibility, DACO: 3.5.13
3254286	2018, Corrosion characteristics, DACO: 3.5.14
3254287	2021, Dielectric breakdown voltage, DACO: 3.5.15
3254288	2021, Nano-material characteristics, DACO: 3.5.16
3330320	2019, Updated formulation process of Lier Speed Desiccant Diquat 240, DACO: 3.2.2
3330321	2022, Density, pH and Viscosity of Lier Speed Desiccant Diquat 240, DACO: 3.5.6,3.5.7,3.5.9
3413218	2022, Declaration of packaging material, DACO:3.5.10, 3.5.14

© 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.