

Evaluation Report for Category B, Subcategory 2.1, 2.3 and 2.4 Application

Application Number: 2010-2390
Application: New end-use product: New product chemistry guarantee, identity and proportion of formulants.
Product: Kerb SC Herbicide
Registration Number: 30264
Active ingredients (a.i.): Propyzamide
PMRA Document Number English PDF: 2109353

Purpose of Application

The purpose of this application was to register a new end-use product, Kerb SC Herbicide (containing 400 g/L propyzamide), based on the precedent registered product Kerb 50 WSP Selective Herbicide (containing 50% propyzamide, Registration number 25595). The intended use for Kerb SC Herbicide is for the control of various weeds in alfalfa, trefoil, ornamentals, strawberries, apples, pears, lowbush blueberries, lettuce and established pastures.

Chemistry Assessment

Kerb SC Herbicide is a suspension containing the active ingredient propyzamide at a nominal concentration of 400 g/L. This product has a density of 1.1334 g/mL and pH of 7.91. The chemistry requirements for Kerb SC Herbicide have been completed.

Health Assessments

Kerb SC Herbicide is of low acute toxicity to rats via the oral ($LD_{50} > 5000$ mg/kg), dermal ($LD_{50} > 5000$ mg/kg) and inhalation ($LC_{50} > 5.30$ mg/L) routes. It is minimally irritating to the eyes and skin of rabbits. Kerb SC Herbicide is not a skin sensitizer in guinea pigs.

As per current guidelines, residue data are transferable between the existing and proposed formulation types. Therefore, the use of Kerb SC Herbicide is not expected to increase the magnitude of propyzamide residues on treated crops. Consequently, the dietary exposure is not expected to increase and will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

The use of Kerb SC Herbicide should not result in unacceptable exposure to the active ingredient, propyzamide. No unacceptable risk is expected when workers follow the label directions and wear the personal protective equipment identified on the label.

Environmental Assessment

The use pattern, application method and application rates for Kerb SC Herbicide are equal to those currently registered on the Kerb 50 WSP Selective Herbicide label. The PMRA does not anticipate that risk to non-target organisms will increase as a result of the registration of Kerb SC Herbicide.

Value Assessment

Kerb SC Herbicide is a liquid formulation based on the precedent product, Kerb 50 WSP Selective Herbicide which is a wettable powder formulation. The rationale submitted to support the registration of Kerb SC Herbicide stated that the formulation type would not affect performance of the active ingredient. According to the labelled application rates, the amount of active ingredient applied with Kerb SC Herbicide is similar to Kerb 50 WSP Selective Herbicide. It is anticipated that the level of uptake of active ingredient by targeted weeds would be similar between the liquid formulation (Kerb SC Herbicide) and the wettable powder formulation (Kerb 50 WSP Selective Herbicide) once the active ingredient moves into the soil. Therefore, the rationale provided satisfies the value requirements of Kerb SC Herbicide.

Conclusion

The PMRA has completed an assessment of available information for Kerb SC Herbicide and has found the information sufficient to support full registration.

References

PMRA

Document Number

Reference

1931548	2010, DACO 3, Chemistry Requirements for F1V1, DACO: 3.1.1, 3.1.2,3.1.3,3.1.4,3.2.1,3.2.2 CBI
1931549	2007, Group A Chemistry for F1V2, DACO: 3.2.1,3.2.2,3.2.3, 3.3.1,3.4.1 CBI
1931551	2008, Group B Physical Properties, DACO: 3.5,3.5.1,3.5.11,3.5.12, 3.5.13,3.5.14,3.5.15 CBI
1931553	2005, KERB FLO 400 Herbicide, Two Years Ambient Shelf Life Stability in and Compatibility with PET Bottle Packaging (F1V1), DACO: 3.5.10 CBI
1931554	2007, Storage Stability and Package Corrosion Characteristics of GF-1197; Accelerated Study (F1V1), DACO: 3.5.10,3.5.14 CBI
1931557	2010, DACO 3.7, Comparison Kerb SC Formulation Versions-Revised, DACO: 3.7 CBI
1931574	2010, WAIVER, Part 10: Value, DACO: 10.2.3.1, 10.2.3.3, 10.3.1, 10.3.2
1931560	2004, GF-1197: Acute Oral Toxicity Up and Down Procedure in Rats, DACO: 4.6.1

- 1931561 2004, GF-1197: Acute Dermal Toxicity Study in Rats - Limit Test, DACO: 4.6.2
- 1931562 2004, GF-1197: Acute Inhalation Toxicity Study in Rats - Limit Test, DACO: 4.6.3
- 1931567 2004, GF-1197: Primary Eye Irritation Study in Rabbits, DACO: 4.6.4
- 1931568 2004, GF-1197: Primary Skin Irritation Study in Rabbits, DACO: 4.6.5
- 1931569 2004, GF-1197: Dermal Sensitization Study in Guinea Pigs, DACO: 4.6.6

ISSN: 1911-8082

© Her Majesty the Queen in Right of Canada, represented by the Minister of Public Works and Government Services Canada 2011

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 the Minister of Public Works and Government Services Canada, Ottawa, Ontario K1A 0S5.