

Evaluation Report for Category B, Subcategory 2.6 and 3.4 Application

Application Number: 2008-5009
Application: New product – new combination of technical grade active ingredients and new application methods.
Product: GF2050 Herbicide
Registration Number: 29745
Active ingredients (a.i.): Aminopyralid (AMD) and Metsulfuron-methyl (MEM)
PMRA Document Number: 1915523

Purpose of Application

The purpose of this application was to register a new commercial herbicide, GF2050 Herbicide, with active ingredients aminopyralid and metsulfuron-methyl. The formulation for GF2050 Herbicide represents both a new formulation and a new combination of actives. The intended use for GF2050 Herbicide is for the post-emergent control of annual and perennial broadleaf weeds, invasive plants and shrubs on rangeland, permanent pasture, rights-of-way, industrial and non-crop areas.

Aminopyralid Technical Herbicide (Registration Number 28136) is currently conditionally registered.

Chemistry Assessment

GF2050 Herbicide is a granular solid containing the active ingredients aminopyralid (present as potassium salt) at a nominal concentration 52.5 % and metsulfuron-methyl at a nominal concentration of 9.45 %. This product has a density of 0.662 g/mL and pH of 10.34 for a 1 % solution in water. The product contains the allergen sulphites. The chemistry requirements for GF2050 Herbicide have been completed.

Health Assessments

GF-2050 Herbicide is of low toxicity to rats via the oral (LD_{50} approximately 5000 mg/kg), dermal ($LD_{50} > 5000$ mg/kg), and inhalation routes ($LC_{50} > 5.09$ mg/L). It is mildly irritating to the eye and slightly irritating to the skin of rabbits. It is not a dermal sensitizer in mice.

A health risk assessment was conducted for handlers of GF 2050 Herbicide, which identified no unacceptable risk for mixer/loaders and applicators. Exposure to re-entry workers and bystanders is not expected to increase over the current registered use pattern of aminopyralid and metsulfuron methyl. No unacceptable risk is expected when workers follow the label directions and wear the personal protective equipment identified on the label.

No new residue data were submitted to support the registration of GF2050 Herbicide containing two registered active ingredients aminopyralid and metsulfuron methyl. Data on file support the use of aminopyralid and metsulfuron methyl on rangeland, permanent pasture, rights-of way, industrial and other non-crop areas. The use of GF2050 Herbicide will not result in the residues of aminopyralid and metsulfuron methyl exceeding their established MRLs in livestock commodities. Therefore, 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.

Environmental Assessment

An environmental assessment of GF2050 Herbicide was not required since the use pattern (application rates, number of applications and use areas) is encompassed by the uses currently registered. The aerial application method for metsulfuron-methyl represents a new application method for this active and aerial buffer zones were calculated and are required on the label. The buffer zones for the protection of freshwater habitat are based on aminopyralid (ground and aerial) and the buffer zones for the protection of terrestrial habitat are based on metsulfuron-methyl (ground and aerial). Environmental concerns are adequately mitigated provided that the required statements are added on the product label.

Value Assessment

The efficacy data submitted for review support the labelled weed claims and support season-long control, control 12 months after application, and extended control for 24 months after application for certain labelled weeds, when applied by ground or by air. The efficacy data support GF2050 Herbicide both alone and in tank-mix with 2,4-D Amine or Ester or glyphosate.

Crop injury, assessed as percent overall injury, was either slight or not detectable following application of GF2050 Herbicide, with or without 2,4-D Amine or Ester as a tank-mix partner, to pasture grasses in accordance with the label.

Conclusion

The PMRA has completed an assessment of available information for GF2050 Herbicide and has found the information sufficient to support a conditional registration pending the conversion of Aminopyralid Technical Herbicide (Registration Number 28136) from conditional to full registration.

References

- 1668705 2008, 3.1 Product Identification, GF 2050 Herbicide, Aminopyralid, DACO: 3.1 CBI
- 1668706 2007, Group A-Product Identity, Composition and Analysis for GF-2050; an End Use Product Containing Aminopyralid and Metsulfuron Methyl, DACO: 3.2,3.3.1,3.4 CBI
- 1668707 2007, Determination of Color, Odor, Physical State, Oxidizing and Reducing Action, Bulk Density, Explodability, and pH of GF-2050, an End-Use Product Containing Metsulfuron-methyl and Aminopyralid Potassium, DACO: 3.5 CBI
- 1668710 2007, Group B-Physical/Chemical Properties for GF-2050, A Solid End Use Product Containing Aminopyralid and Metsulfuron-methyl, DACO: 3.5 CBI
- 1824592 2009, 3.4.1 Enforcement Analytical Method, GF2050 Herbicide 08-5009, Nov 2 clarification request, DACO: 3.4.1 CBI
- 1824593 2009, 3.4.1 , Graph 1 - Interference, GF2050 Herbicide 08-5009, Nov 2 clarification request, DACO: 3.4.1 CBI
- 1824594 2009, 3.4.1 , Graph 2, GF2050 Herbicide 08-5009, Nov 2 clarification request, DACO: 3.4.1 CBI
- 1824595 2009, 3.4.1 , Graph 3, GF2050 Herbicide 08-5009, Nov 2 clarification request, DACO: 3.4.1 CBI
- 1824596 2009, 3.4.1 , Recovery - Corrected for Formulation Blank (2), GF2050 Herbicide 08-5009, Nov 2 clarification request, DACO: 3.4.1 CBI
- 1824597 2008, 3.5.10, Storage Stability of GF2050, DACO: 3.5.10 CBI
- 1824598 2008, 3.5.14, Storage Stability & Pkg Corrosion Characteristics of GF2050, DACO: 3.5.14 CBI
- 1668728 2008, GF2050 Herbicide for control of annual and perennial broadleaf noxious and invasive weeds and shrubs in Rangeland and Permanent Pasture, Non-cropland and Industrial Vegetation Management Areas in Canada. DACO: 10.2.3.3.

ISSN: 1911-8082

© Her Majesty the Queen in Right of Canada, represented by the Minister of Public Works and Government Services Canada 2010

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.