

Evaluation Report for Category B, Subcategory 2.6, 3.2, 3.11 Application

Application Number: 2011-1370
Application: Product Chemistry – New Combination of TGAIs
Product Labels – New Pests and Application Timing
Product: SB-01 Herbicide
Registration Number: 30803
Active ingredients (a.i.): Chlorimuron-ethyl and Flumioxazin
PMRA Document Number: 2259893

Purpose of Application

The purpose of this application was to register a new wettable granule end-use product, SB-01 Herbicide, containing 5.1% chlorimuron-ethyl and 40.6% flumioxazin. SB-01 Herbicide is proposed for pre-plant or pre-emergence application to soybeans (conventional or glyphosate tolerant) at a rate of 176 g/ha (80.5 g a.i./ha) for the control or suppression of numerous grassy and broadleaf weeds in Eastern Canada only. SB-01 Herbicide is always to be applied in a tank mix with glyphosate (potassium salt, isopropylamine salt or di-ammonium salt; 900 g a.e./ha). SB-01 Herbicide is a physical blend of two formulated manufacturing technical active ingredients, Chlorimuron Ethyl 25 DF Manufacturing Concentrate (Registration Number 25539) and Flumioxazin WDG Manufacturing Use Concentrate (Registration Number 29709). The corresponding precedent end-use products are Classic 25 DF Herbicide (Registration Number 25433, 25.0% chlorimuron-ethyl) and Valtera Herbicide (Registration Number 29230). The applicant is also requesting Master Product status for SB-01 Herbicide.

Chemistry Assessment

SB-01 Herbicide has a density of 0.58 g/cm³. The chemistry requirements for SB-01 Herbicide are incomplete. The enforcement analytical method must be provided to complete the chemistry data requirements for this product.

Health Assessments

The registration of SB-01 Herbicide is based on two precedent products. Subsequently, no toxicological data were submitted or were required.

The use of SB-01 Herbicide on soybeans should not result in an increase in potential occupational or bystander exposure over the registered use of chlorimuron-ethyl and flumioxazin. No risks of concern are expected when workers follow label directions and wear personal protective equipment as stated on the label.

No residue data were submitted to support the registration of SB-01 Herbicide. The use pattern for soybeans on the SB-01 Herbicide is similar to or more restrictive than the current registered use pattern for both actives. Therefore, the new combination of active ingredients chlorimuron-ethyl and flumioxazin is not expected to increase the magnitude of residues of either active ingredient in/on soybean, 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

SB-01 Herbicide does not raise additional environmental concerns that have not been already addressed with risk mitigation measures. The SB-01 Herbicide label will have the same buffer zone as chlorimuron-ethyl, which is the active ingredient with the more restrictive buffer zone.

Value Assessment

Data from field studies (from 13 field trials conducted in southern Ontario in 2008 and 2009) and rationales were provided. The data demonstrated that a tank mixture of 80.5 g a.i./ha SB-01 Herbicide plus a glyphosate herbicide at 900 g a.e./ha can be expected to control or suppress select grassy and broadleaf weeds when applied pre-plant or pre-emergence in soybeans. The registration of SB-01 Herbicide will provide soybean growers with a one-pass crop pre-emergence weed control option that will not only control emerged weeds at the time of application, but also provide residual activity for the control or suppression of select grassy and broadleaf weeds in conventional and glyphosate tolerant soybeans.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided in support of the product, SB-01 Herbicide, and has found the information sufficient to register SB-01 Herbicide plus a glyphosate herbicide to control or suppress select grassy and broadleaf weeds when applied pre-plant or pre-emergence in soybeans.

References

PMRA #	Reference
2032635	2011, Request for waiver of Part 3 chemistry data, DACO: 3.0
2032641	2011, DuPont Guardian Plus Herbicide Part 3.1-3.2 (Chemistry), DACO 3.1 and 3.2, DACO: 3.1,3.1.1,3.1.2,3.1.3,3.1.4,3.2,3.2.1,3.2.2,3.2.3
2144329	2012, Enforcement analytical method, DACO: 3.4.1
2144331	2012, Storage stability and corrosion characteristics, DACO: 3.5.10,3.5.14
2186895	2012, Chemistry data, DACO: 3.4.1,3.5.10,3.5.14
2032639	2011, Efficacy of a Guardian Plus Herbicide (a physical blend of Chlorimiuron ethyl and Flumioxazin) Tank Mixed with,Glyphosate. Applied Preplant or Preemergence to Soybean, Glycine max Linnaeus (Merr.), DACO: 10.1, 10.2, 10.2.1, 10.2.2, 10.2.3, 10.2.3.1, 10.2.3.3(B), 10.3.1, 10.3.2(A)
2144327	2012, Efficacy response, DACO: 10.2.3.3(A), 10.2.3.3(B)

ISSN: 1911-8082

© Her Majesty the Queen in Right of Canada, represented by the Minister of Public Works and Government Services Canada 2013

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.