

Evaluation Report for Category L, Subcategory 1.2 Application

Application Number: 2022-6058
Application: Application Subject to Protection of Proprietary Interests in Pesticide Data (PIIP) Policy – Equivalency/Data Compensation Assessment
Product: Interline 280 Herbicide
Registration Number: 35189
Active ingredient (a.i.): Glufosinate-ammonium
PMRA Document Number: 3553961

Purpose of Application

The purpose of this application was to register the end-use product, Interline 280 Herbicide, based on registered precedent products.

Chemistry Assessment

Interline 280 Herbicide is formulated as a solution containing glufosinate-ammonium at a concentration of 280 g/L. This end-use product has a density of 1.13-1.17 g/mL and pH of 5.7-7.0. The required chemistry data for Interline 280 Herbicide have been provided, reviewed and found to be acceptable.

Health Assessments

Interline 280 Herbicide is of low acute toxicity via the oral, dermal, and inhalation routes of exposure. It is not an eye irritant, or a skin irritant. It is not a dermal sensitizer.

The use pattern of Interline 280 Herbicide is comparable to the registered use pattern of the precedent products.

Therefore, potential exposure for mixers, loaders, applicators, bystanders and postapplication workers is not expected to exceed the current exposure to the registered products of glufosinate-ammonium. No health risks of concern are expected for workers and bystanders when label directions, precautions and restrictions are followed.

No new residue data for glufosinate-ammonium were submitted or were required to support the registration of Interline 280 Herbicide. Previously reviewed residue data were re-assessed in the framework of this application. The use directions on the Interline 280 Herbicide label, including the target crops, methods (ground), rates and timing of application, geographic restrictions, preharvest intervals, feeding restrictions, and crop rotation restrictions are comparable to those on the labels of the registered precedent end-use products.

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 glufosinate-ammonium is not expected to increase with the registration of Interline 280 Herbicide 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 glufosinate-ammonium-tolerant field corn, glufosinate-ammonium-tolerant canola, and glufosinate-ammonium-tolerant soybeans are within the currently registered use pattern for glufosinate-ammonium. Therefore, the risk is acceptable when Interline 280 Herbicide is used in accordance with the label, which includes statements to mitigate risks to the environment.

Value Assessment

Interline 280 Herbicide contains a higher concentration of glufosinate-ammonium (280 g/L) than other registered products containing this active ingredient. This allows users to reduce product volume while applying the same amount of active ingredient per hectare. The reduction in product volume reduces plastic containers, costs of product transportation, and spaces for product storage, contributing to agricultural sustainability.

Value information consisted of scientific rationales, precedent product registrations, and data from replicated field trials. This information collectively demonstrated that the performance of Interline 280 Herbicide for control of the labeled weeds can be expected to be similar to other registered glufosinate-ammonium products. Varieties of canola, corn, and soybean that were specifically developed to be tolerant to glufosinate-ammonium can be expected to be similarly tolerant to Interline 280 Herbicide as other glufosinate ammonium herbicide products registered for post-emergence use on these crops.

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 Interline 280 Herbicide.

References

PMRA

Document

Number

Reference

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3407714	2013, Flashpoint of glufosinate ammonium 280 g/L SL (Glufosinate ammonium 24.5% w/w equivalent to 2.34 pounds of active ingredient per U.S. Gallon), DACO: 3.5.11
3407715	2013, Explosive properties for glufosinate ammonium 280 g/L SL (Glufosinate ammonium 24.5% w/w equivalent to 2.34 pounds of active ingredient per U.S. gallon), DACO: 3.5.12
3407716	2013, Miscibility of glufosinate ammonium 280 g/L SL (Glufosinate ammonium 24.5% w/w equivalent to 2.34 pounds of active ingredient per U.S. gallon), DACO: 3.5.13
3407717	2014, One year storage stability and corrosion characteristics study of glufosinate ammonium 280 g/L SL (Glufosinate ammonium 24.5% w/w equivalent to 2.34 pounds of active ingredient per U.S. Gallon), DACO: 3.5.10,3.5.14
3407718	2013, Accelerated storage stability and corrosion characteristics of glufosinate ammonium 380 g/L SI (Glufosinate Ammonium 24.5% w/w equivalent to 1.25 pounds of active ingredient per US gallon), DACO: 3.4.1,3.4.2,3.5.10,3.5.14,3.5.7
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3407726	2013, Oxidising properties for glufosinate ammonium 280 g/L SL, DACO: 3.5.8
3407727	2013, Viscosity of glufosinate ammonium 280 g/L SL (Glufosinate ammonium 24.5% w/w equivalent to 2.34 pounds of active ingredient per U.S. gallon), DACO: 3.5.9
3549640	2024, Interline 280 Herbicide Revised Formulation Process, DACO: 3.2.1,3.2.2,3.2.3,3.3.1 CBI
3407728	2013, Acute Oral Toxicity Study of Glufosinate Ammonium 280 g/L SL (Glufosinate ammonium 24.5% w/w equivalent to 2.34 pounds of active ingredient per U.S gallon in rats), DACO: 4.6.1
3407729	2013, Acute Dermal Toxicity Study of Glufosinate Ammonium 280 g/L SL (Glufosinate Ammonium 24.5% w/w Equivalent to 2.34 pounds of active ingredient per U.S. Gallon) In Rats, DACO: 4.6.2

- 3407731 2013, Acute Inhalation Toxicity Study of Glufosinate Ammonium 280 g/L SL (Glufosinate Ammonium 24.5% w/w Equivalent to 2.34 pounds of active ingredient per U.S. Gallon) In Rats, DACO 4.6.3
- 3407732 2013, Acute Eye irritation Study of Glufosinate Ammonium 280 g/L SL (Glufosinate Ammonium 24.5% w/w Equivalent to 2.34 pounds of active ingredient per U.S. Gallon) In Rabbits, DACO: 4.6.4
- 3407730 2013, Acute Dermal Irritation Study of Glufosinate Ammonium 280 g/L SL (Glufosinate Ammonium 24.5% w/w Equivalent to 2.34 pounds of active ingredient per U.S. Gallon) In Rabbits, DACO: 4.6.2
- 3407733 2013, Skin Sensitization Study of Glufosinate Ammonium 280 g/L SL (Glufosinate Ammonium 24.5% w/w Equivalent to 2.34 pounds of active ingredient per U.S. Gallon) In Guinea Pigs [Guinea Pig Maximization Test], DACO: 4.6.6
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- 3407684 2021, H1231bc and KFD-200-05 / Efficacy / Canola, DACO: 10.2.3.3(B), 10.3.2(A)
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- 3407687 2021, KFD-138-10 / Efficacy / Corn, DACO: 10.2.3.3(B),10.3.2(A)
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- 3407694 2021, KFD-138-10 / Canola / Efficacy, DACO: 10.2.3.3(B),10.3.2(A)

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