

Evaluation Report for Category B, Subcategory 2.1, 2.3, 2.4, 3.10 Application

Application Number: 2017-6842
Application: New End-use Product Chemistry - Guarantee, Identity of Formulants, Proportion of Formulants;
New Product Labels - Tank Mixes
Product: GF-2257 Herbicide
Registration Number: 33289
Active ingredients (a.i.): Fluroxypyr (present as 1-methylheptyl ester) and Florasulam
PMRA Document Number: 2940152

Purpose of Application

The purpose of this application was to register the end-use product GF-2257 Herbicide for postemergent control of broadleaf weeds in wheat (spring, durum, and winter), spring barley, and oats.

Chemistry Assessment

GF-2257 Herbicide is formulated as a suspension containing florasulam at a concentration of 5.0 g/L and fluroxypyr, present as 1-methylheptyl ester, at 100 g/L. This end-use product has a density of 0.09861 g/mL and pH of 4.49. The required chemistry data for GF-2257 Herbicide have been provided, reviewed and found to be acceptable.

Health Assessments

GF-2257 B Herbicide is of low toxicity to rats via the oral, dermal, and inhalation routes. It is moderately irritating to the eye and mildly irritating to the skin of rabbits. It is not a dermal sensitizer in guinea pigs.

Use of GF-2257 B Herbicide to control annual and perennial broadleaf weeds in wheat (spring, durum and winter), spring barley and oats is not expected to result in potential occupational or bystander exposure over the registered uses of florasulam and fluroxypyr, present as 1-methylheptyl ester. No health risks of concern are expected when workers follow label directions and wear personal protective equipment as stated on the label.

No new residue data for florasulam and fluroxypyr (present as 1-methylheptyl ester) were submitted to support the registration of GF-2257 B Herbicide for use on wheat (spring, durum and winter), spring barley and oats. Previously reviewed residue data from field trials conducted with these active ingredients in/on wheat, barley and oats were re-assessed in the framework of this petition.

Residues in/on wheat (spring, durum and winter), spring barley and oats will be covered by the established MRLs of 0.01 ppm for florasulam and 0.5 ppm for fluroxypyr. Consequently, the dietary exposure to residues of these active ingredients is not expected to increase with the registration of GF-2257 B Herbicide and will not pose health risks of concern to any segment of the population, including infants, children, adults and seniors.

Environmental Assessment

Provided that the environmental risk reduction and hazard statements on the GF-2257 Herbicide label are followed, the registration of this product is supported from an environmental perspective.

Value Assessment

Based on submitted value information, including small-scale replicated field trials, a rationale, and precedent registered products, the registration of GF-2257 Herbicide is considered to have acceptable value and can be supported.

The registration of GF-2257 Herbicide will provide farmers with an option to control a broader spectrum of weeds with the same product rate at one litre per hectare (i.e., 100 g/L fluroxypyr and 5.0 g/L florasulam) when compared to previously registered products that are co-formulated with 100 g/L fluroxypyr and 2.5 g/L florasulam.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found it sufficient to support the registration of GF-2257 Herbicide for use on wheat (spring, durum, and winter), spring barley, and oats.

References

PMRA Document Number	Reference
2820376	2017, 11 Small scale field trial reports GF-2257, DACO: 10.2.3.1 and 10.3.2.
2820378	2017, Formulating Plant's Name and Address, DACO: 3.1.1,3.1.2,3.1.3,3.1.4 CBI
2820379	2017, Description of Starting Materials, DACO: 3.2.1,3.2.2,3.2.3 CBI
2820380	2008, Description of Starting Materials, DACO: 3.2.1, 3.2.2, 3.2.3, 3.3.1, 3.4, 3.4.1, 3.4.2 CBI
2820381	2017, Establishing Certified Limits, DACO: 3.3.1 CBI
2820382	2017, Enforcement Analytical Method, DACO: 3.4,3.4.1 CBI
2820383	2017, Explodability, DACO: 3.5, 3.5.1, 3.5.10, 3.5.11, 3.5.12, 3.5.2, 3.5.3, 3.5.4, 3.5.5, 3.5.6, 3.5.7, 3.5.8, 3.5.9 CBI
2820384	2009, Storage Stability Data, DACO: 3.5.10 CBI
2875273	2008, Explodability, DACO: 3.5.1, 3.5.10, 3.5.11, 3.5.12, 3.5.13, 3.5.14, 3.5.15, 3.5.2, 3.5.3, 3.5.6, 3.5.7, 3.5.8, 3.5.9 CBI
2877907	2018, Description of Starting Materials, DACO: 3.2.1,3.2.2,3.2.3 CBI
2885692	2012, Corrosion Characteristics, DACO: 3.5.10,3.5.14 CBI
2820385	2008, Acute Oral Toxicity Up And Down Procedure In Rats, DACO: 4.6.1
2820387	2008, Acute Dermal Toxicity Study in Rats - Limit Test, DACO: 4.6.2
2820388	2008, Acute Liquid Aerosol Inhalation Toxicity Study In Fischer 344 Rats, DACO: 4.6.3
2820389	2008, Primary Eye Irritation Study in Rabbits, DACO: 4.6.4
2820390	2014, Acute Dermal Irritation Study of GF-2257 In Rabbits, DACO: 4.6.5
2820391	2014, Skin Sensitisation Study of GF-2257 in Guinea Pigs (Buehler Test), DACO: 4.6.6

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