



## Evaluation Report for Category B, Subcategory 2.6 Application

**Application Number:** 2017-6786  
**Application:** New End-use Product Chemistry - New Combination of Technical Grade Active Ingredients  
**Product:** GF-1374 Herbicide  
**Registration Number:** 33352  
**Active ingredients (a.i.):** Clopyralid; Fluroxypyr (present as 1-methylheptyl ester); Florasulam  
**PMRA Document Number:** 2891200

### Purpose of Application

The purpose of this application was to register the end-use product GF-1374 Herbicide for postemergent control of annual and perennial broadleaf weeds in wheat (spring, durum and winter), spring barley and oats.

### Chemistry Assessment

GF-1374 Herbicide is formulated as an emulsion concentrate containing florasulam at 2.5 g/L, fluroxypyr (present as 1-methylheptyl ester) at 100 g/L, and clopyralid at 80 g/L. This end-use product has a density of 1.04 g/cm<sup>3</sup> and pH of 2.4. The required chemistry data for GF-1374 Herbicide have been provided, reviewed and found to be acceptable.

### Health Assessments

GF-1374 Herbicide is of low acute toxicity via the oral, dermal and inhalation routes in rats. It is severely irritating to the eye and moderately irritating to the skin of rabbits. It is not a dermal sensitizer in guinea pigs.

Use of GF-1374 Herbicide on wheat (spring, durum, winter), spring barley and oats to control labeled weeds is not expected to result in occupational or bystander exposure over the registered uses of florasulam, fluroxypyr (present as 1-methylheptyl ester) and clopyralid. 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, fluroxypyr (present as 1-methylheptyl ester) and clopyralid were submitted to support the registration of GF-1374 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, 0.5 ppm for fluroxypyr (present as 1-methylheptyl ester) and 3.0 ppm for clopyralid. Consequently, the dietary exposure to residues of these active ingredients is not expected to increase with the registration of GF-1374 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 environmental risk reduction and hazard statements included on the GF-1374 Herbicide label are followed, use of this product is supported from an environmental perspective.

### **Value Assessment**

The spectrum of weeds controlled by a product containing fluroxypyr (present as 1-methylheptyl ester) and florasulam is significantly expanded when clopyralid is included in the product formulation at a reduced application rate per hectare.

Value information submitted for review consisted of data from replicated field trials that were conducted in Canada, trial data that were used to support the registration of GF-1374 Herbicide in several countries in the European Union (EU), use history information from the EU, and a scientific rationale. Based on the weight of evidence, all uses and claims requested for GF-1374 Herbicide are supported from a value standpoint.

### **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-1374 Herbicide on wheat (spring, durum and winter), spring barley and oats.

## References

<b>PMRA Document Number</b>	<b>Reference</b>
2819937	2015, EU Value Dossier, GF-1374, DACO: 10.1, 10.2, 10.2.3.1, and 10.3.2.
2819940	2017, 10.2.3.3 Canada AWM1673 report, DACO: 10.2.3.3.
2819941	2015, EU trial reports 1 of 5, DACO: 10.2.3.3.
2819942	2015, EU trial reports 2 of 5, DACO: 10.2.3.3.
2819943	2015, EU trial reports 3 of 5, DACO: 10.2.3.3.
2819944	2015, EU trial reports 4 of 5, DACO: 10.2.3.3.
2819945	2000, EU trial reports 5 of 5, DACO: 10.2.3.3.
2819946	2017, GF-1374 Use history letter, DACO: 10.2.4.
2836347	2017, 18 ARM Trial reports, GF-1374 17-6786, DACO: 10.2.3.3.
2819948	2017, Formulating Plant's Name and Address, DACO: 3.1.1,3.1.2,3.1.3,3.1.4 CBI
2819949	2017, Description of Starting Materials, DACO: 3.2.1,3.2.2,3.2.3 CBI
2819950	2005, Enforcement Analytical Method, DACO: 3.4.1 CBI
2819951	2005, pH, DACO: 3.5.1,3.5.10,3.5.11,3.5.2,3.5.3,3.5.6,3.5.7,3.5.9 CBI
2819952	2015, Storage Stability Data, DACO: 3.5.10 CBI
2819953	2017, Explodability, DACO: 3.5.12 CBI
2819954	2017, Corrosion Characteristics, DACO: 3.5.11,3.5.13,3.5.14,3.5.15,3.5.4,3.5.5 CBI
2819955	2012, Oxidizing or Reducing Action (Chemical Incompatibility), DACO: 3.5.8 CBI
2879196	2013, Corrosion Characteristics, DACO: 3.5.10,3.5.14 CBI
2819956	2005, Acute Oral Toxicity Up And Down Procedure in Rats, DACO: 4.6.1
2819957	2005, Acute Dermal Toxicity Study in Rats – Limit Test, DACO: 4.6.2
2819958	2005, GF-1374: Acute Liquid Aerosol Inhalation Toxicity Study In Fischer 344 Rats, DACO: 4.6.3
2819959	2005, Primary Eye Irritation Study in Rabbits, DACO: 4.6.4
2819960	2005, Primary Skin Irritation Study in Rabbits, DACO: 4.6.5
2819961	2004, Dermal Sensitization Study in Guinea Pigs (Magnusson-Kligman Method), 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 2019

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.