

Evaluation Report for Category B, Subcategory 2.1, 2.6, 3.1, 3.2, 3.5, 3.6, 3.11 Application

Application Number: 2015-6735

Application: New EP Product Chemistry: Guarantee and New Combination of TGAI; New to

Product Labels: Application Rate Increase or Decrease, New Pests, Application Timing, Rotational Crops\Plantback

Interval, and Pre-Harvest Interval

Product: CS-75-3317 Herbicide **Registration Number:** 32578

Active ingredients (a.i.): Tribenuron-methyl, Thifensulfuron-methyl and Pyroxsulam

PMRA Document Number: 2626437

Purpose of Application

The purpose of this application was to register a new end-use product, CS-75-3317 Herbicide, containing three actives ingredients: tribenuron-methyl, thifensulfuron-methyl and pyroxsulam. This product is for early postemergence application by ground and aerial equipment to control broadleaf and grassy weeds in spring and durum wheat grown in the Prairie Provinces and the Interior of British Columbia.

Chemistry Assessment

CS-75-3317 Herbicide is formulated as wettable granules containing tribenuron-methyl at nominal concentration of 6.1%, thifensulfuron-methyl at nominal concentration of 12.2%, and pyroxsulam at nominal concentration of 13.6%. This end-use product has a density of 0.48-0.68 g/mL and pH of 4.3-7.3. The required chemistry data for CS-75-3317 Herbicide have been provided, reviewed and found to be acceptable.

Health Assessments

CS-75-3317 Herbicide is considered to be of low acute toxicity by the oral, dermal, and inhalation routes. It is considered to be mildly irritating to the eye and slightly irritating to the skin. It is considered to be a potential dermal sensitizer.

The use pattern of the new end-use product fits within the registered use pattern for pyroxsulam, tribenuron-methyl, as well as application of thifensulfuron-methyl using ground equipment. The aerial application rate on wheat is an expansion of use for thifensulfuron-methyl in CS-75-3317 Herbicide. A chemical handler risk assessment was conducted and there were no risks to human health associated with this use. The potential exposure to pyroxsulam, thifensulfuron-methyl, and tribenuron-methyl for mixers/loaders, applicators and postapplication re-entry workers is not expected to result in risks of concern from the use of CS-75-3317 Herbicide.

The use pattern on the CS-75-3317 Herbicide label is identical to, or more restrictive than, the registered use patterns on the labels of the precedent products. Therefore, residues of these active substances in/on treated commodities are not expected to increase and will be covered under the maximum residue limits (MRLs) currently established. Consequently, the dietary exposure to residues of pyroxsulam, thifensulfuron-methyl and tribenuron-methyl is not expected to increase with the registration of CS-75-3317 Herbicide and will not pose health risks of concern to any segment of the population, including infants, children, adults and seniors.

Environmental Assessment

The rates, number of applications and application methods for pyroxsulam, this this thing this constant the sulfuron-methyl and tribenuron-methyl in CS-75-3317 Herbicide are within those registered for the active ingredients alone or in combination on other registered product labels. Environmental concerns have been mitigated through appropriate statements on the product label.

Value Assessment

CS-75-3317 Herbicide will offer a one-pass application for the control of both broadleaf and grassy weeds. This end-use product will be dispensed through a PrecisionPac system, which will allow dispensing in volumes based on field size or sprayer tank size, thereby reducing product waste and packaging, and minimizing sprayer errors (e.g. rate calculations). CS-75-3317 Herbicide is compatible with integrated pest management programs, and may be used with conventional tillage, minimum tillage and no-till systems. CS-75-3317 Herbicide contains the active ingredient pyroxsulam, which is a Group 2 graminicide. As some wild oat populations have developed resistance to Group 1 Herbicides, this pyroxsulam containing product will offer an alternative mode of action for the control of wild oats.

Efficacy data from seven field trials conducted in 2014-2015 across locations in western Canada were provided to demonstrate that CS-75-3317 Herbicide, with or without the addition of a reduced rate of MCPA ester, would not result in wild oat antagonism. Based on the wild oat data that were provided for review, in conjunction with existing precedent product registrations and the applicant's attestation to several years of positive grower use history with certain precedent product tank mix combinations, adequate control or suppression of all labelled weeds would be expected.

Host crop tolerance data from seven field trials demonstrated that CS-75-3317 Herbicide applied alone would provide acceptable spring wheat tolerance. Further data were also provided to demonstrate that adequate spring wheat tolerance to CS-75-3317 Herbicide in tank mix with a reduced rate of MCPA ester would be expected. Based on the spring wheat data that were provided, in conjunction with existing precedent product registrations, adequate tolerance of both spring and durum wheat to CS-75-3317 Herbicide would be expected.

No rotational cropping information was provided for CS-75-3317 Herbicide. However, given that CS-75-3317 Herbicide is fit within the current use pattern of registered products, most restrictive rotational cropping interval of the registered use pattern was used for defining the rotational cropping claims for CS-75-3317 Herbicide. The same reasoning was used to support a rainfastness claim of 2 hours for CS-75-3317 Herbicide.

Conclusion

The PMRA has reviewed the available information in support of this application and has determined that the registration of the end-use product, CS-75-3317 Herbicide, can be supported.

References

PMRA Document Number Reference	
2589136	2015, CS-Blend 6 Herbicide: Request for Waiver of Part 3 Chemistry Data,
	DACO:
	3.0,3.5,3.5.1,3.5.10,3.5.11,3.5.12,3.5.13,3.5.14,3.5.15,3.5.2,3.5.3,3.5.4,3.5.5,3.
	5.6,3.5.7,3.5.8 CBI
2589138	2015, CS-Blend 6 Herbicide: Part 3.1-3.2 Chemistry, 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 CBI
2589140	2015, Determination of Thifensulfuron methyl (DPX-M6316), Tribenuron methyl
	(DPX-L5300), Metsulfuron methyl (DPX-T6376), Pyroxsulam (DPX-QGM08)
	and Cloquintocet Acid in DPX-TMT56, DPX-TMT62, DPX-TMT63 and
	DPX-TMT66 Blends of Paste-Extruded Products, DACO: 3.4,3.4.1 CBI
2589142	2015, Validation of the Analytical Method for Determination of Thifensulfuron
	methyl (DPX-M6316), Tribenuron methyl (DPX-L5300), Metsulfuron methyl
	(DPX-T6376), Pyroxsulam (DPX-QGM08) and Cloquintocet Acid in DPX-
	TMT56, DPX-TMT62, DPX-TMT63 and DPX-TMT66 Blends of Paste-
2500142	Extruded Products, DACO: 3.4,3.4.1 CBI
2589143	2015, Validation of the Analytical Method for Determination of Thifensulfuron
	methyl (DPX-M6316), Tribenuron methyl (DPX-L5300), Metsulfuron methyl
	(DPX-T6376), Pyroxsulam (DPX-QGM08) and Cloquintocet Acid in DPX-TMT56, DPX TMT62, DPX TMT62, and DPX TMT66, Plands of Posts
	TMT56, DPX-TMT62, DPX-TMT63 and DPX-TMT66 Blends of Paste-Extruded Products, DACO: 3.4,3.4.1 CBI
2590144	
2309144	11 11
2589145	,
25071.5	<u>.</u>
2622815	· · · · · · · · · · · · · · · · · · ·
	·
2670139	
	Metabolism) and Part 7.4.1 (Crop Residue) for Herbicide Blends Containing
	Thifensulfuron-Methyl, Tribenuron-Methyl, Metsulfuron-Methyl, Pyroxsulam
	and Cloquintocet Acid on Wheat, DACO: 6.3,7.4.1
2589144 2589145 2622815 2589060 2670139	Thifensulfuron-Methyl, Tribenuron-Methyl, Metsulfuron-Methyl, Pyroxsulam

ISSN: 1911-8082

8 Her Majesty the Queen in Right of Canada, represented by the Minister of Public Works and Government Services Canada 2016

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.