

Evaluation Report for Category B, Subcategory 1.2 Application

Application Number: 2016-1752
Application: New technical grade active ingredient product chemistry – New source (site) for a new registrant
Product: ADAMA Imazamox Technical Herbicide
Registration Number: #####
Active ingredients (a.i.): Imazamox
PMRA Document Number: 2687500

Purpose of Application

The purpose of this application was to register a new source of imazamox, ADAMA Imazamox Technical Herbicide, by a new registrant. This application is being reviewed under Phase 1 of the Protection of Proprietary Interest in Pesticides (PIIP) and is based on a registered precedent product.

Chemistry Assessment

Common Name: Imazamox
IUPAC* Chemical Name: 2-[(RS)-4-isopropyl-4-methyl-5-oxo-2-imidazolin-2-yl]-5-methoxymethylnicotinic acid
CAS† Chemical Name: 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-5-(methoxymethyl)-3-pyridinecarboxylic acid

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

ADAMA Imazamox Technical Herbicide has the following properties:

Property	Result
Colour and physical state	Off-white solid
Nominal concentration	97.41%
Odour	Odourless
Density	1.39 g/mL
Vapour pressure	<0.013 mPa (at 25°C)
pH	2-3

Property	Result
Solubility in water	4.16 g/L (deionized), 116 g/L (pH 5), >626 g/L (pH 7), >628 g/L (pH 9)
n-Octanol/water partition coefficient	Log K _{ow} = 0.73

The required chemistry data for ADAMA Imazamox Technical Herbicide have been provided, reviewed, and found to be acceptable.

Environmental Assessment

ADAMA Imazamox Technical Herbicide is similar to the currently registered precedent product and impurities of environmental concerns are not expected to be present. The use of the new source of imazamox is, therefore, not expected to pose additional environmental concerns.

Health and Value Assessments

Health and value assessments were not required for this application.

Conclusion

The PMRA has completed a review of the available information provided in support of ADAMA Imazamox Technical Herbicide and found it sufficient to support full registration.

References

PMRA Document Number	Reference
2624736	2015, Chemistry-2.13.3-Production Dates-Manufacturing Information, DACO: 2.13.3 CBI
2624735	2015, Imazamox Technical-Five Lots Analysis and Method Validation, DACO: 2.12.1, 2.13.1, 2.13.2, 2.13.3, 2.13.4 CBI
2624740	2015, Imazamox-Manufacturing Process, DACO: 2.11.1, 2.11.2, 2.11.3, 2.11.4, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9 CBI
2624734	2015, Method Validation of Optical Isomers (R and S) in Imazamox Technical, DACO: 2.13.1 CBI
2624737	2015, Storage Stability and Corrosion Characteristics of Imazamox Technical Stored at 54C Temperature for 14 Days , DACO: 2.14.1, 2.14.13, 2.14.15, 2.14.2, 2.14.3, 830.7000 CBI
2624733	2016, Chemistry 2.1-2..2, 2.3, 2.3.1-Imazamox Tech, DACO: 2.1, 2.2, 2.3, 2.3.1
2624738	2001, General Information for Imazamox, DACO: 2.14.4, 2.14.5, 2.14.9
2624739	2005, PUBCHEM Open Chemistry Datadase-Imazamox, DACO: 2.14.10, 2.14.11, 2.14.12, 2.14.15, 2.14.6, 2.14.7, 2.14.8, 830.7000

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.