



Evaluation Report for Category B, Subcategory 1.1 Application

Application Number: 2017-1712
Application: New TGAI Product Chemistry-New Source (site) same registrant
Product: NewAgco S-Metolachlor Technical
Registration Number: 32312
Active ingredient (a.i.): S-Metolachlor and R-enantiomer
PMRA Document Number: 2945126

Purpose of Application

The purpose of this submission was to register a new source of technical grade s-metolachlor and r-enantiomer by the same registrant.

Chemistry Assessment

Common Name: S-Metolachlor and R-enantiomer
IUPAC* Chemical Name: mixture of 80–100% 2-chloro-*N*-(6-ethyl-*o*-tolyl)-*N*-[(1*S*)-2-methoxy-1-methylethyl]acetamide and 20–0% 2-chloro-*N*-(6-ethyl-*o*-tolyl)-*N*-[(1*R*)-2-methoxy-1-methylethyl]acetamide
or
mixture of 80–100% 2-chloro-6'-ethyl-*N*-[(1*S*)-2-methoxy-1-methylethyl]acet-*o*-toluidide and 20–0% 2-chloro-6'-ethyl-*N*-[(1*R*)-2-methoxy-1-methylethyl]acet-*o*-toluidide
CAS† Chemical Name: 2-chloro-*N*-(2-ethyl-6-methylphenyl)-*N*-[(1*S*)-2-methoxy-1-methylethyl]acetamide

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Newagco S-Metolachlor Technical has the following properties:

Property	Result
Colour and physical state	Yellow brown liquid
Nominal concentration	98.34 %
Odour	Unspecified organic odour
Density	1.119 g/cm ³
Vapour pressure	3.7 mPa (at 25°C)

Property	Result
pH	5.31 (1% dispersion in water)
Solubility in water	480 mg/L (25°C)
n-Octanol/water partition coefficient	log Kow = 3.05

The required chemistry data for Newagco S-Metolachlor Technical have been provided, reviewed, and found to be acceptable.

Health Assessments

NewAgco S-Metolachlor Technical was considered to be toxicologically equivalent to the registered precedent product. Subsequently, no toxicological data were submitted or are required.

Dietary exposure and occupational exposure assessments were not required for this application.

Environmental Assessment

Additional environmental risk is not expected from the use of NewAgco S-Metolachlor Technical over that of the previously registered precedent.

Value Assessment

A value assessment was not required for this application.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found it sufficient to support the registration of NewAgco S-Metolachlor Technical.

References

- 2747835 2017, Manufacturing Process And Flow Chart Of S-Metolachlor Technical,
DACO: 2.11.1,2.11.2,2.11.3,2.11.4 CBI
- 2747837 2014, Preliminary Analysis of S-Metolachlor Tcehnical Grade Active Ingredient
(TGAI, DACO: 2.12.1,2.13.1,2.13.2,2.13.3 CBI

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.