

Evaluation Report for Category B, Subcategories 1.1, 1.3 Application

Application Number: 2019-6073
Application: Changes to TGAI Product Chemistry-New Source (site) same registrant, Specifications
Product: NewAgco Acetamiprid Technical
Registration Number: 33521
Active ingredient (a.i.): Acetamiprid
PMRA Document Number: 3180923

Purpose of Application

The purpose of this application was to add a new source of acetamiprid to the registered product NewAgco Acetamiprid Technical.

Chemistry Assessment

Common Name: acetamiprid
 IUPAC* Chemical Name: (*E*)-*N*¹-[(6-chloro-3-pyridyl)methyl]-*N*²-cyano-*N*¹-methylacetamidine
 CAS† Chemical Name: (1*E*)-*N*-[(6-chloro-3-pyridinyl)methyl]-*N*¹-cyano-*N*-methylethanimidamide

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

NewAgco Acetamiprid Technical has the following properties:

Property	Result
Colour and physical state	White powder
Nominal concentration	99.34 %
Odour	No pungent smell
Density	1.2535 g/cm ³
Vapour pressure	< 1.5 x 10 ⁻⁵ Pa at 20°C
pH	6.23
Solubility in water	3.5 g/L (pH <i>ca</i> 6.5)
n-Octanol/water partition coefficient	log K _{ow} = 0.25

The required chemistry data for NewAgco Acetamiprid Technical have been provided, reviewed, and found to be acceptable.

Health Assessments

The toxicology risk profile of the technical active ingredient is not expected to be significantly altered by the addition of a new manufacturing site.

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

Environmental and Value Assessment

Environmental and value assessments were 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 a new source for NewAgco Acetamiprid Technical.

References

PMRA

Document Number

Reference

3048168	2013, Chemical and Physical Characterization of Acetamiprid TGAI: Melting Point, Partition Coefficient, Solubility and Vapor Pressure, DACO: 2.14.11, 2.14.4,2.14.7,2.14.8,2.14.9
3048170	2018, Appearance Test of Acetamiprid TC, DACO: 2.14.1,2.14.2,2.14.3
3048171	2018, pH Value Test of Acetamiprid TC, DACO: 2.14.15,830.7000
3048174	2018, Density Test of Acetamiprid TC, DACO: 2.14.6,2.14.7
3048176	2018, Dissociation Constant in water Test of Acetamiprid TC, DACO: 2.14.10
3048178	2018, Accelerated Storage Stability Test of Acetamiprid TC, DACO: 2.14.13
3048180	2018, UV-Vis Absorption Spectra Test of Acetamiprid TC, DACO: 2.14.12
3048181	2018, Stability to Metals and Metal Ions Test of Acetamiprid TC, DACO: 2.14.13
3048198	2010, Validation of Analytical Methodology for the Assay of Active Ingredient in Acetamiprid TGAI, DACO: 2.13.1 CBI
3048200	2012, Certificate of Analysis for Acetamiprid 99% TC, DACO: 2.12.1 CBI
3048202	2013, Validation of Analytical Methodology for the Assay of [CBI Removed] in Acetamiprid TGAI, DACO: 2.13.1 CBI
3048204	2013, Preliminary Analysis of Acetamiprid TGAI Confidential Attachment, DACO: 2.13.1,2.13.3,2.13.4 CBI
3048206	2013, Preliminary Analysis of Acetamiprid TGAI, DACO: 2.13.3 CBI
3048208	2013, Identification of Analytical Standard of Acetamiprid with IR, UV-Vis, NMR and MS, DACO: 2.13.2 CBI
3048209	2013, Identification of Analytical Standard of Solvent E with IR, UV-Vis, NMR and MS, DACO: 2.13.2 CBI
3048210	2013, Identification of Analytical Standard of [CBI Removed] with IR, UV-Vis, NMR and MS, DACO: 2.13.2 CBI
3048186	2019, The Synthesis and Impurities of Acetamiprid, DACO: 2.11.2 CBI

© Her Majesty the Queen in Right of Canada, as represented by the Minister of Health Canada, 2021

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 Health Canada, Ottawa, Ontario K1A 0K9.