

Evaluation Report for Category B, Subcategory 4.6 Application

Application Number: 2022-2446
Application: Conversion to Term- Fulfill Conditions of Registration
Product: Acetamiprid Technical Insecticide
Registration Number: 27125
Active ingredient (a.i.): Acetamiprid
PMRA Document Number: 3509361

Background

Only pilot batch data was provided under application 2020-0622, therefore, a Section 12 Notice was issued on May 27, 2021 requesting GLP-compliant five batch data representing commercial-scale production at the approved manufacturing site.

Purpose of Application

The purpose of this application was to fulfill the Section 12 Notice data requirements to support the registration of Acetamiprid Technical Insecticide at the approved manufacturing site.

Chemistry Assessment

Common Name: Acetamiprid
 IUPAC* Chemical Name: (E)-N¹-[(6-chloro-3-pyridyl)methyl]-N²-cyano-N¹-methylacetamidine
 CAS† Chemical Name: (1E)-N-[(6-chloro-3-pyridinyl)methyl]-N'-cyano-N-methylethanimidamide

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Acetamiprid Technical Insecticide has the following properties:

Property	Result
Colour and physical state	White to pale yellow solid
Nominal concentration	99.50 %
Odour	Odourless
Density	1.330 g/mL
Vapour pressure	< 1 x 10 ⁻⁶ Pa

Property	Result										
pH	6.08 (1 % aqueous solution)										
Solubility in water	<table border="0"> <thead> <tr> <th><u>pH</u></th> <th><u>Solubility (g/L)</u></th> </tr> </thead> <tbody> <tr> <td>distilled water</td> <td>4.25</td> </tr> <tr> <td>5</td> <td>3.48</td> </tr> <tr> <td>7</td> <td>2.95</td> </tr> <tr> <td>9</td> <td>3.96</td> </tr> </tbody> </table>	<u>pH</u>	<u>Solubility (g/L)</u>	distilled water	4.25	5	3.48	7	2.95	9	3.96
<u>pH</u>	<u>Solubility (g/L)</u>										
distilled water	4.25										
5	3.48										
7	2.95										
9	3.96										
n-Octanol/water partition coefficient	log K _{ow} = 0.80										

The requirements of registration for this product included the provision of commercial-scale batch data. Data to fulfill this requirement have now been provided, reviewed and found to be acceptable. As such, the chemistry requirements for Acetamiprid Technical Insecticide have been fulfilled.

Health, Environmental, and Value Assessments

Health, 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 the information acceptable to fulfill the requirements of registration for Acetamiprid Technical Insecticide.

References

PMRA

Document

Number

Reference

3362575

2022, Analysis of Representative Commercial 5 Lots of Acetamiprid Technical Grade [CBI Removed], DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI

3490314

2019, Acetamiprid (Code No. NI-25) TGAI Product Identity and Composition Series 61, DACO: 2.11.1,2.11.2,2.11.3,2.11.4,2.12.1 CBI

© His Majesty the King in Right of Canada, as represented by the Minister of Health Canada, 2023

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.