



Evaluation Report for Category B, Subcategory 1.1 Application

Application Number: 2011-0952
Application: Changes to TGAI product chemistry: new source (site) same registrant
Product: Acetamiprid Technical Insecticide
Registration Number: 27125
Active ingredient (a.i.): Acetamiprid
PMRA Document Number: 2335951

Purpose of Application

The purpose of this application was to register a new source of the technical product.

Chemistry Assessment

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

Acetamiprid Technical Insecticide has the following properties:

Property	Result										
Colour and physical state	White to very pale yellow solid (fine powder)										
Nominal concentration	99.5%										
Odour	Odourless										
Specific gravity	1.330										
Vapour pressure	$< 1 \times 10^{-6}$ Pa										
pH	6.08 (1% aqueous solution)										
Solubility in water	<table><tr><th>pH</th><th>Solubility (mg/L)</th></tr><tr><td></td><td>distilled water 4.25×10^3</td></tr><tr><td>5</td><td>3.48×10^3</td></tr><tr><td>7</td><td>2.95×10^3</td></tr><tr><td>9</td><td>3.96×10^3</td></tr></table>	pH	Solubility (mg/L)		distilled water 4.25×10^3	5	3.48×10^3	7	2.95×10^3	9	3.96×10^3
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	distilled water 4.25×10^3										
5	3.48×10^3										
7	2.95×10^3										
9	3.96×10^3										
n-Octanol/water partition coefficient	$K_{ow} = 6.27$										

The chemistry requirements for Acetamiprid Technical Insecticide have been completed.

Health Assessment

A health assessment was not required for this application.

Environmental Assessment

An environmental assessment was not required for this application.

Value Assessment

A value assessment was not required for this application.

Conclusion

An evaluation of available scientific information found that the new source is chemically equivalent to the registered source(s). Therefore, the value of the product and its health and environmental risk are not affected under the approved conditions of use.

References

- 2020803 2011, Product information, DACO: 2.1, 2.12.1, 2.2, 2.3.1 CBI
- 2020809 1997, Acetamiprid (code no. NI-25) analytical method for impurities by HPLC, DACO: 2.13.1, 2.13.2 CBI
- 2020810 2010, Analyses of representative 5 lots of technical grade acetamiprid, DACO: 2.13.1, 2.13.2, 2.13.3, 2.14.12 CBI
- 2020812 2010, Acetamiprid (Code No. NI-25) TGAI Product Identity and Composition, DACO: 2.4, 2.5, 2.6, 2.7, 2.8, 2.9, 2.11.1, 2.11.2, 2.11.3, 2.11.4

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