



Evaluation Report for Category B, Subcategory 1.1 Application

Application Number: 2009-4424
Application: New / Changes TGAI or ISP Prod Chemistry-New Source(site)
same registrant
Product: Thiamethoxam Technical Insecticide
Registration Number: 26665
Active ingredients (a.i.): Thiamethoxam [THE]
PMRA Document Number : 2268849

Purpose of Application

Syngenta Crop Protection Canada has submitted an application to add a new source for the production of Thiamethoxam Technical Insecticide. There are four registered sources of Thiamethoxam Technical Insecticide. Previously, two different manufacturing methods were used to produce the TGAI; currently only one process is used at all sites.

Chemistry Assessment

Common Name: Thiamethoxam
Chemical Name: 3-[(2-chloro-5-thiazolyl)methyl]tetrahydro-5-methyl-N-nitro-4H-1,3,5-oxadiazin-4-imine

Thiamethoxam Technical Insecticide has the following properties:

Property	Result
Colour and physical state	Slightly cream fine crystalline powder
Nominal concentration	98.0%
Odour	Odourless
Density	1.57 g/cm ³ at 22°C
Vapour pressure	2.7 × 10 ⁻⁶ mPa at 20°C 6.6 × 10 ⁻⁶ mPa at 25°C
pH	4-6 (1% in water)
Solubility in water	4.1 g/L
n-Octanol/water partition coefficient	Log K _{ow} = -0.13 at 25°C

The chemistry requirements for Thiamethoxam Technical Insecticide have been completed.

Health, Environmental and Value Assessments

Health, environmental and value assessments were not required for this submission.

Conclusion

The PMRA has conducted a review of the available information for this application and has concluded that the addition of a new source for the production of Thiamethoxam Technical Insecticide is acceptable.

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