

Evaluation Report for Category B, Subcategory 1.1 Application

Application Number: 2008-5296
Application: B.1.1 (Product chemistry - new source same registrant)
Product: Thiamethoxam Technical Insecticide
Registration Number: 26665
Active ingredients (a.i.): Thiamethoxam (THE)
PMRA Document Number: 2268453

Purpose of Application

The purpose of this application was to add a new source for the production of Thiamethoxam Technical Insecticide.

Chemistry Assessment

Common Name: Thiamethoxam
Chemical Name: (EZ)-3-(2-chloro-1,3-thiazol-5-ylmethyl)-5-methyl-1,3,5-oxadiazinan-4-ylidene(nitro)amine

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 ⁻⁹ Pa at 20°C 6.6 × 10 ⁻⁹ Pa at 25°C
pH	4-6 (1% in water)
Solubility in water	4.1 g/L
n-Octanol/water partition coefficient	K _{ow} = 0.73 ± 0.0029 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 application.

Conclusion

The PMRA has reviewed all available data and are able to support the addition of a new source for the production of Thiamethoxam Technical Insecticide (Registration Number 26665).

References

- 744645 Chemistry Requirements for the Registration of a Technical Grade Active Ingredient (TGAI) - Thiamethoxam Technical Insecticide, DACO: 2.1, 2.10, 2.11, 2.12, 2.12.1, 2.13, 2.13.2, 2.14, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9 CBI
- 744675 2003, CGA 293343 Determination of Content by HPLC, DACO: 2.13.1 CBI
- 744677 2003, Validation of Analytical Method SA-1/1, DACO: 2.13.1 CBI
- 744678 2003, By-Products and Supplementary Tests, DACO: 2.13.1 CBI
- 744681 2003, Validation of Analytical Method SB-1/1, DACO: 2.11.4,2.13.1 CBI
- 744689 2003, Chemical Composition of CGA 293343 tech., DACO: 2.11.4,2.13.3 CBI

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